



TAKACHI

**2025-27
ALL PRODUCT CATALOG**

 **CASE BOX RACK & CUSTOM**
TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

CUSTOMIZED ENCLOSURE

TAKACHI can be your "one stop shop" for your customization requirements.

We provide value-added services, such as CNC machining, inkjet printing, and many more on our available range of enclosures.

Available from 1 unit onwards with a short lead-time, we can assist you with the creation of your original design.

CAD data can also be downloaded from our website for use in your design.



CNC Machining on Aluminium



CNC Machining on Plastic



Laser Cutting

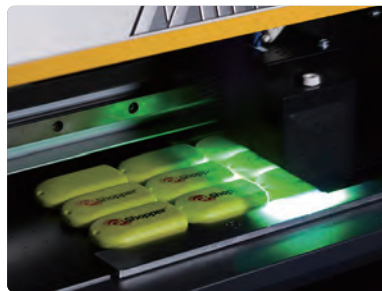




Punching Press



Inkjet Printing



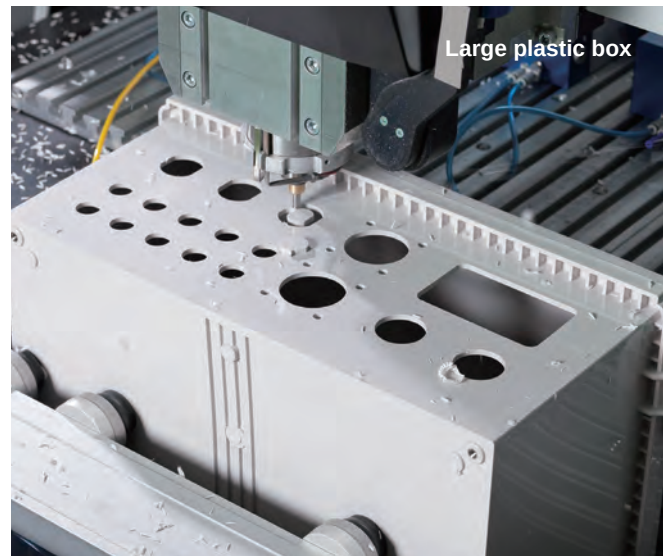
Digital Printed Overlay



CNC MACHINING



CNC milling is a form of computer controlled machining. Similar in operation to drilling and cutting, it is able to create various hole styles and shapes by using a rotating cutting tool to bore into the object.





LASER CUTTING for ALUMINIUM

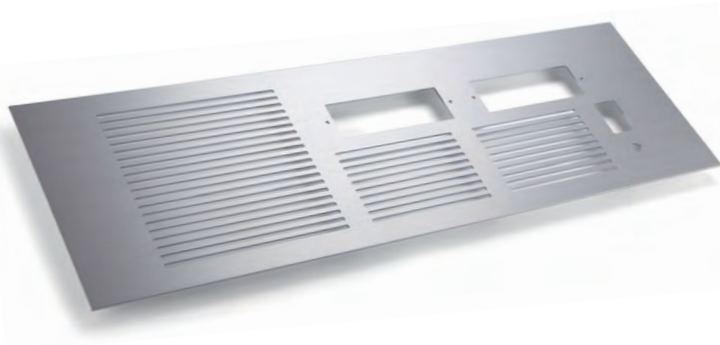
Laser cutting utilizes a laser to perform cutting on an object, allowing various types and shapes of holes to be cut.

New fiber laser cutting machine allows the processing of aluminium sheets with both high precision and speed.

Processing of Pure Aluminium 1050 is also possible with minimal burr as compared to conventional CO₂ laser machines, which cause excessive burring.



FIBER LASER CUTTING MACHINE



PUNCHING PRESS



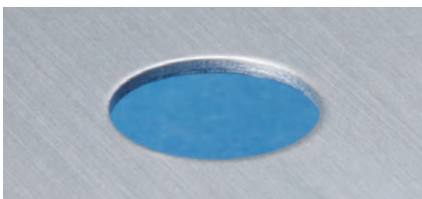
What is punching press? It is a type of machine press used to cut holes in material via the use of various sized die sets.

Punching press allows the realization of high cost performance due to its high speed automated turret punching process, which significantly reduces machining lead-time.

Due to its ability to create designated sized holes by means of rapid multiple hole punches, this enables it to punch holes of various sizes and types quickly and efficiently.

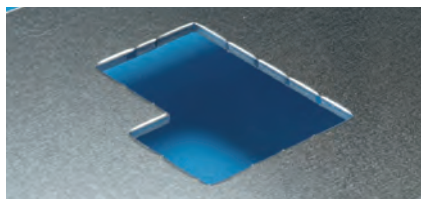


Circular hole



Circular holes as small as 1.0mm in diameter can be punched.

Nibbling press (rectangle)



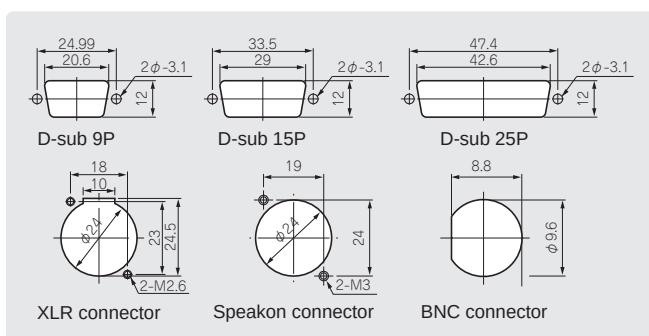
Complex or large rectangular shapes can be punched out with multiple presses.

Nibbling press (round)

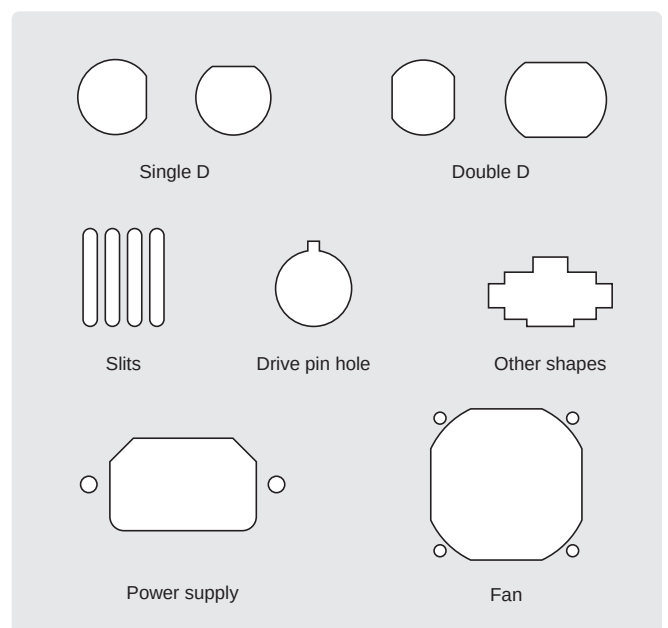


Punching of large circular holes with multiple smaller die strokes.

Common connector shapes



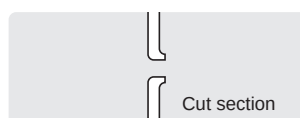
Unique shapes



Burring punch



Increasing surface area on a thin metallic sheet for screw threads to bore into.



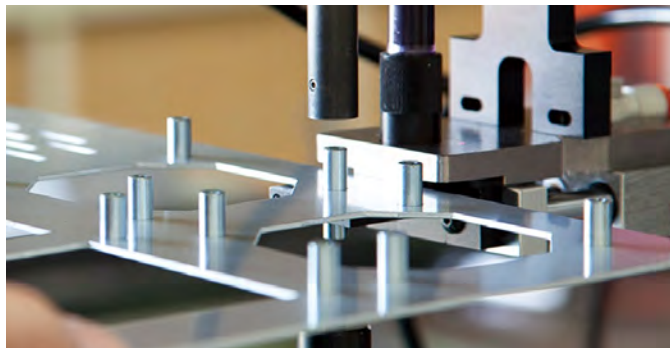
SELF-CLINCHING STANDOFF / STUD / NUT



Easy attaching of self-clinching fasteners into simple through-holes.

A specialized press machine for clinching is utilized to ensure that the standoffs / studs / nuts are securely attached.

117 different kinds of standoffs / studs / nuts are available, in addition to a non-through hole concealed-head type.

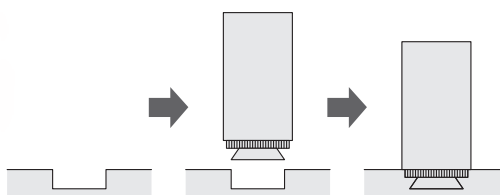
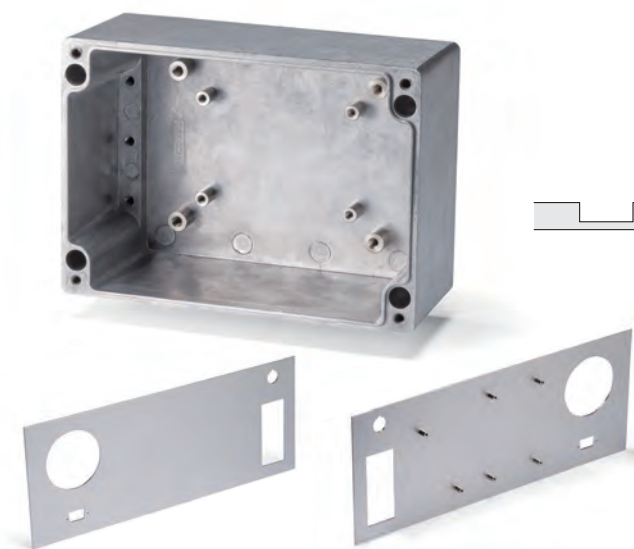


CONCEALED-HEAD SELF-CLINCHING STANDOFFS

Installed into recessed pockets so that one side of the panel remains unmarked.

Standoffs can be mounted onto 1.5mm or thicker material without requiring a through-hole to be milled.

Concealed-head standoffs/studs ensure that the IP rating (for waterproof type enclosure) is maintained.



Concealed-head standoffs/studs give an aesthetically better finish on the enclosure.

A recess cut is made on the internal side, and the standoffs are press-inserted in.

● Mounting Mark Visibility

Thickness	Mark visibility	
	M3	M4
1.5mm	△	×
2.0mm	○	○
2.5mm	○	○
3.0mm ~	○	○

◎ Almost invisible
○ Barely visible
△ Somewhat visible
× Very visible

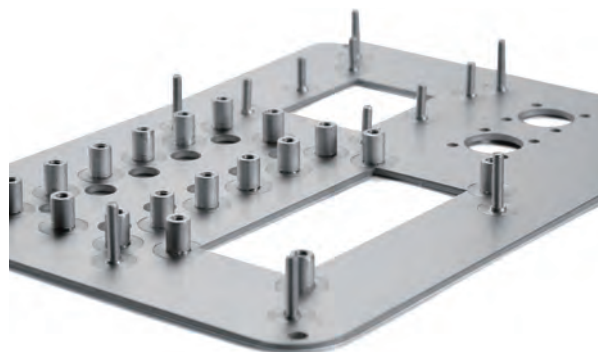
Example : Clinching M4 standoff on 1.5mm thick material.



Mounting is possible on 1.5mm thick material. Mounting mark would be almost invisible on 2.5mm or thicker material.

STUD WELDING

Welded fasteners on aluminium objects. Standoffs and studs with minimal surface weld marks can be produced. Welding process is available on raw aluminium material only (not available for painted or anodized aluminium) as welding requires the material to be conductive.



INKJET PRINTING



- Full color, digitally designed images print can be performed cost effectively.
- Efficient print method allows small batches to be printed in 1 run.

Lower printing cost

**Full color print possible
at no additional cost**

Inkjet printing

1 run only for full color print

Printing cost
Full color

Silk-screen printing

Printing cost x number of colors

Printing cost
Color 1

Printing cost
Color 2

Printing cost
Color 3

Printing cost
Color 4

Lower lead-time

**Less production
processing required**

Inkjet printing

Print data
received

Print data
creation*

Printing



*for more info.

Silk-screen printing

Print data
received

Print data
creation

Print Mold
production

Ink
mixing

Printing

Drying

Repeat procedures x number of colors.

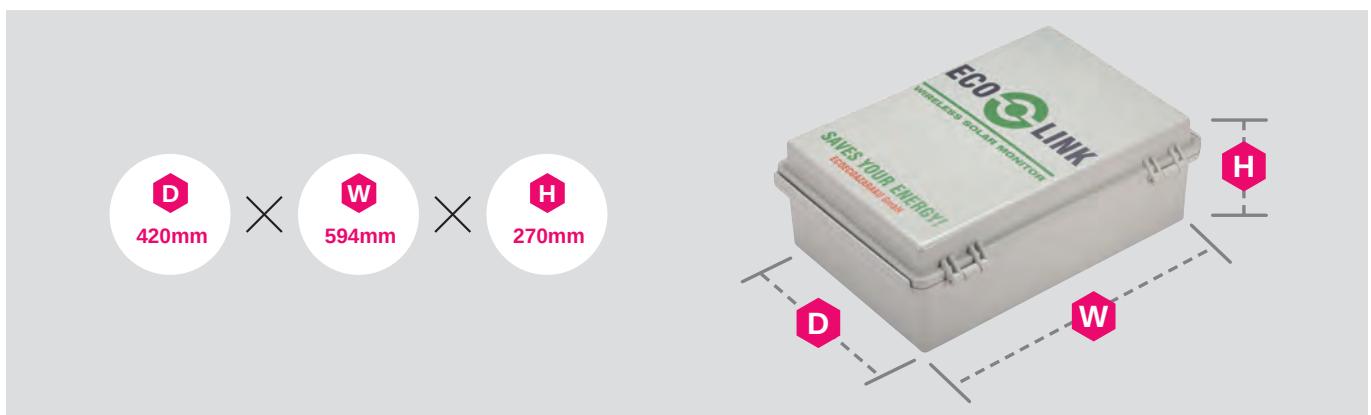
High quality printing of photo image and color gradient

Print photo images in maximum 1,800 x 1,800 dpi quality.

Pictures, logos and unique designs with color gradation can be recreated in a high quality print.



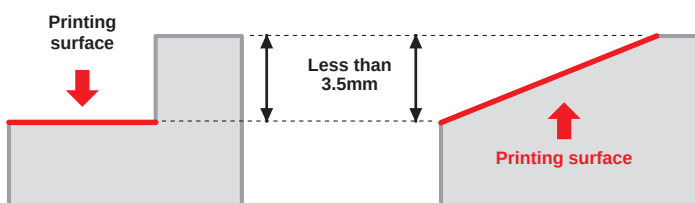
Maximum printable enclosure size



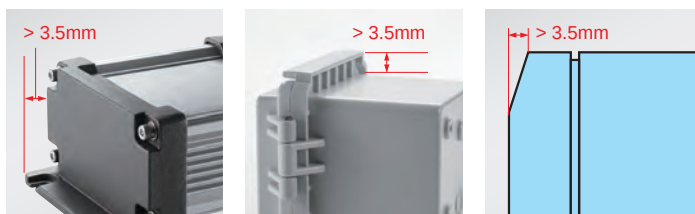
Printable on surfaces with height difference

Printing is possible on recessed, sloped and rounded sections.

Gap difference is less than 3.5mm.



*Not suitable if height difference is more than 3.5mm.



Printed example



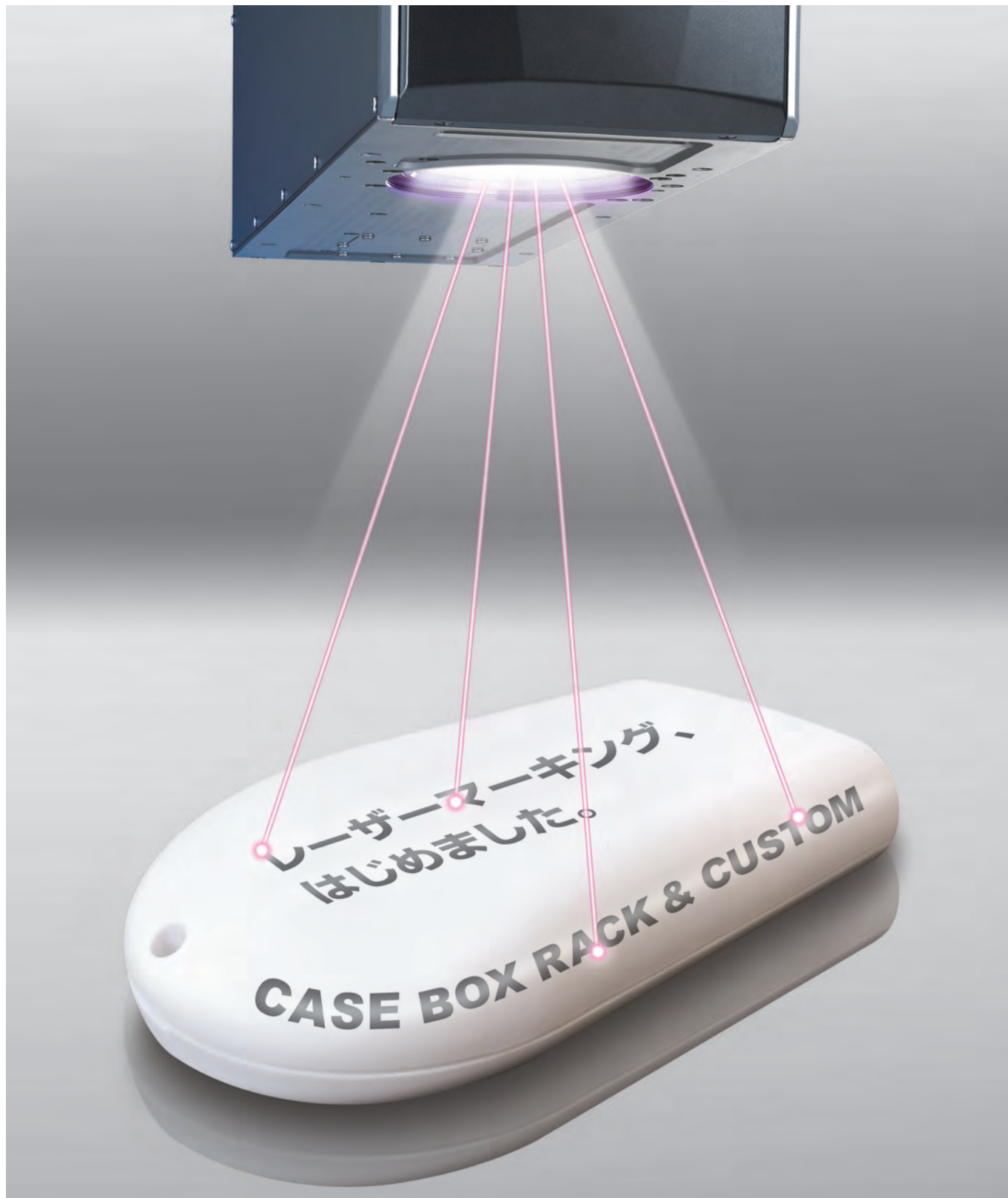
LASER MARKING



Laser marking is a method of printing designs, letters and so on by irradiating a laser beam onto an object to melt, scorch, peel, scrape, oxidize, or discolor the surface.

Our 3D-controlled laser marker freely controls the focal distance, and is able to realize highly accurate marking.

No minimum order is required, please feel free to contact us for quoting.



Advantage 1

Marking on surfaces with height differences and curves, also providing excellent durability and abrasion resistance.



Marking possible on surfaces with 3.5mm or more height differences.

Advantage 2

Marking on metal surfaces gives a high-end finish.



DIGITAL PRINTED OVERLAY



Layers

■ Embossing for buttons can be formed.

■ Transparent windows can be made.

■ Digital full color printed film layer

■ Laminated film layer

■ Double-sided tape layer
Standard type
Waterproof type
(Equivalent to IP67)

Waterproof type is equivalent to IP67 protection class.

IP67

■ Surface finish



Glossy type



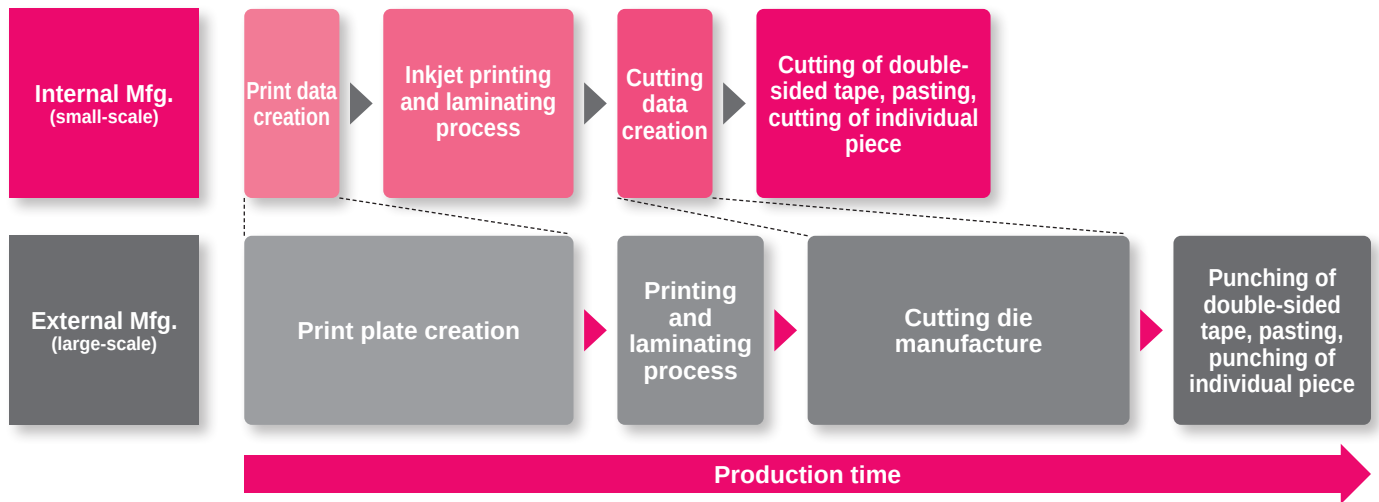
Matte type

Glossy type is recommended if transparent window is required.

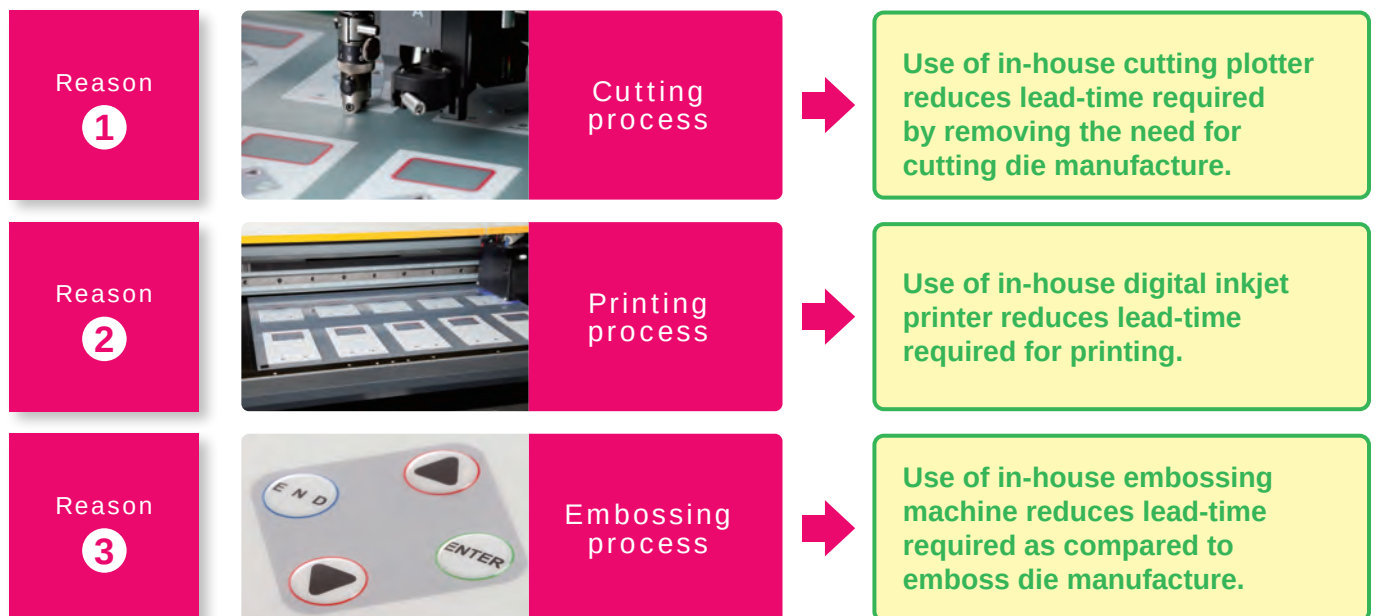
Layer details

Layer		Material	Thickness
Protective layer		Polypropylene	0.040mm
Printed film layer		PET	0.198mm
Laminated film layer		PET	0.016mm
Double-sided tape layer	Standard	Acrylic	0.17mm
	Waterproof	Acrylic	0.15mm
Paper liner		Paper	-

● Comparison between internal (in-house) and external manufacturing methods



● Benefits of small-scale internal manufacturing



CUSTOMIZATION EXAMPLE



Cautionary Points When Providing Printing Data

Recommended data formats

Compatible Software: Adobe Illustrator (CS~CS6~CC)

.ai format	.eps format	.pdf format
		

Providing print-ready data can lower your initial costs significantly. "Print-ready" data refers to data which meet the following conditions and do not require any correction to be made by TAKACHI.

Common Points for All Printing

- ☒ Files should be created and saved in .ai, .eps, or .pdf format. (*Designs included in the file using Adobe Acrobat comment function would not be processed.)
- ☒ Data should be created and saved in the original (1:1 scale) size.
- ☒ Data should include the outline of the enclosure to be printed. (*Cut and dimension lines should be saved on the separate layers.)
- ☒ Logos and marks should be created and saved as vector data. (*1)
- ☒ Make sure to indicate whether white color in the design should be printed or not. (*2)
- ☒ Text data should always be outlined. (*3)
- ☒ Data should be created and saved in CMYK color mode and in the actual color to be printed. (*4)
(RGB color mode would be converted to CMYK color mode at TAKACHI before printing; this may cause a difference in appearance.)
- ☒ Spot colors should be converted to process colors.
(Data provided with spot colors would be converted to process colors; this may cause a difference in appearance.)
- ☒ It may not be possible to replicate your image if transparent effects, etc. are applied.
- ☒ Use "Normal" setting in Blend Mode.
- ☒ Overprinting settings should not be used to avoid any potential issues.
- ☒ Hairlines (no line width settings - fill only lines) should not be used to avoid any potential issues.
- ☒ Unnecessary layers, points, blank text boxes, etc. should be deleted.
- ☒ Objects should not be hidden using the "Hide" settings.
- ☒ All elements should be unlocked.
- ☒ For designs which extend to the edge of enclosure or part to be printed, additional 3mm or more fill color should be applied to the top, bottom, left, and right edges.
- ☒ 0.2mm gap should be applied to designs that extend to the edge of a height difference on the enclosure.

Overlay Sheets

- ☒ Print design, transparent windows, cutouts (cut lines), embossing, etc. should be saved on the separate layers.

Laser Marking

- ☒ Clipping masks should not be used.
- ☒ Color setting should be in black only.
- ☒ Images (raster data) and effects such as drop shadow should not be used.

*In case of providing data meeting the conditions above is not feasible, or wishing to use hand drawn sketches, ask our sales representatives.

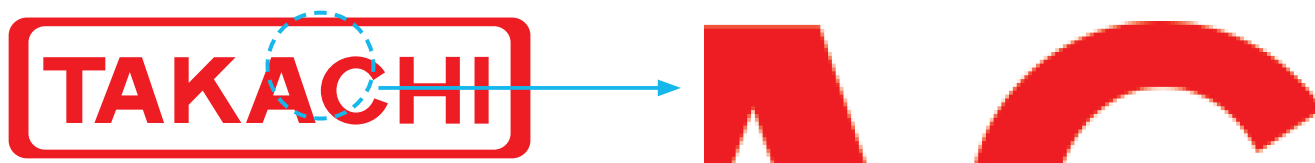
● LOGOS and MARKS *1

Customization service may not be available when images (raster data) are used.
Using vector data is recommended.

[Vector Data] Image clarity remains unchanged even when magnified.

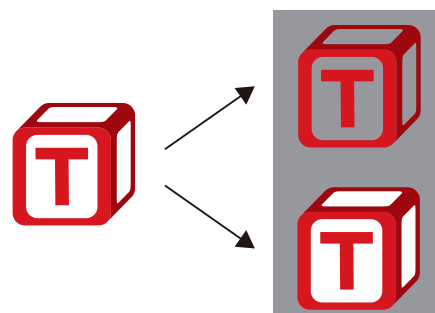


[Raster Data] Image clarity drops (pixels become visible) when magnified.



*2

In case wishing to use a transparent background, do not put white color. For images that use white, the background should be filled with a different color, or the use of white color should be indicated in your drawings. It may potentially cause issues if areas which do not need to be printed are covered using white objects.



● OUTLINING TEXT *3

Outlining text is a feature on Adobe Illustrator, etc. which converts text data into a vector.
It converts the outer edges of the text into paths and prevents unnecessary conversion of fonts.
If the font used in the design is unavailable at TAKACHI, it will be replaced with a similar or a random font.
Make sure that your text data is outlined to avoid this from happening.



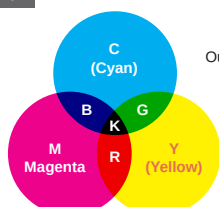
Text (Not outlined)

Outlined

● PRINTING IN CMYK MODE *4

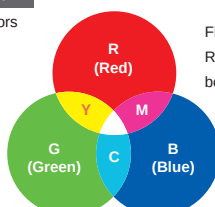
Printing is processed in CMYK + W color mode. Print files should be prepared in CMYK color mode.
If RGB color mode is used, print may become darker than the actual specified color when converted to CMYK color mode. (*Metallic colors such as gold and silver cannot be printed at TAKACHI. This may not be the case if the design uses a color gradient to replicate.)

CMYK Color
(Richromatic)

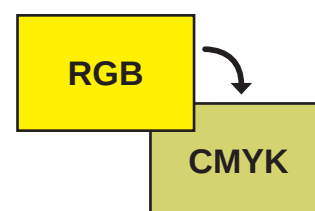


Our Color Mode

RGB Color
(3 primary colors
of light)



Fluorescent colors in
RGB color mode cannot
be printed.



Difference in color due to the conversion (example)

CUSTOM ANODIZATION

Anodization is an electrochemical process that converts the aluminium surface into a decorative, durable, corrosion-resistant, anodic oxide finish. We can process custom color anodization such as blue, green, red, purple and more.

As well as color anodization, clear alodine finish for maintaining conductivity is also available.



CUSTOMIZATION EXAMPLE



CUSTOM PAINTING



CUSTOM CONDUCTIVE COATING

Custom conductive coating service is available. DOTITE conductive paint (acrylic paint mixed with nickel filler) can be coated internally on plastic enclosures to make them conductive.



CUSTOM COLOR INJECTION

Custom color injection service for silicone cover and plastic enclosure is available. Contact us for more details.



1 Download the base drawing



3 Request a quote

Figure 1-1: Top view of the cabinet showing dimensions 1000mm x 1000mm and mounting holes.

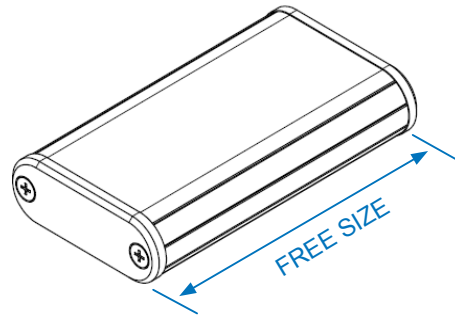
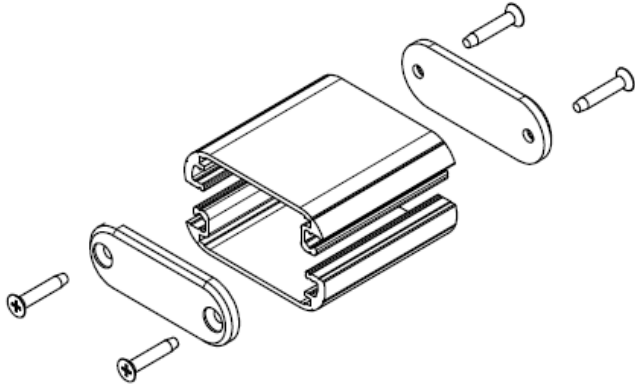
Figure 1-2: Side view of the cabinet showing a height of 100mm.

Figure 1-3: Front view of the cabinet showing the central opening and mounting holes.

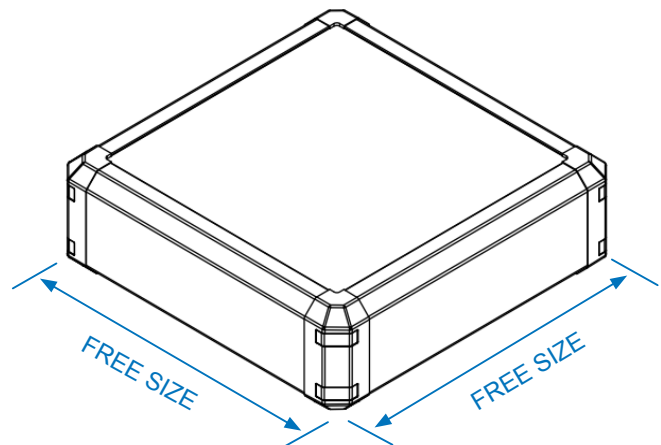
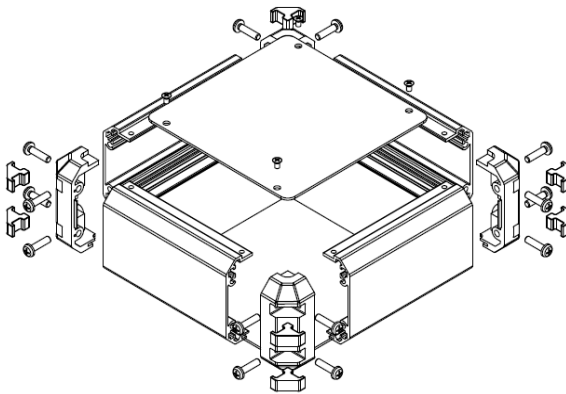
VARIETY OF CUSTOM SIZED ENCLOSURES

Extruded models are adjustable in extrusion length (depth) in 0.1mm or 1.0mm intervals.
Sheet-metal models are adjustable in W/D/H dimensions in 1.0mm intervals.

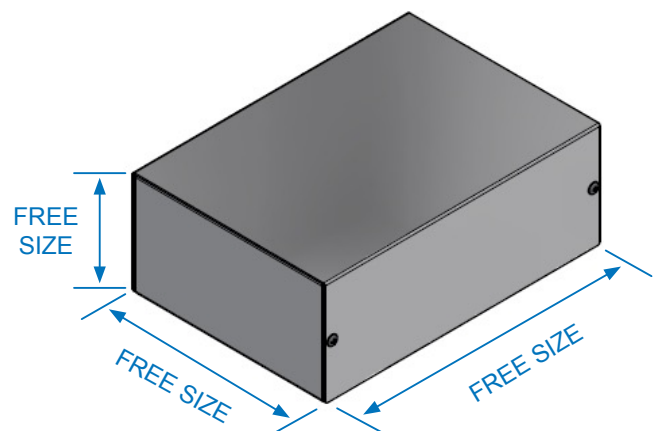
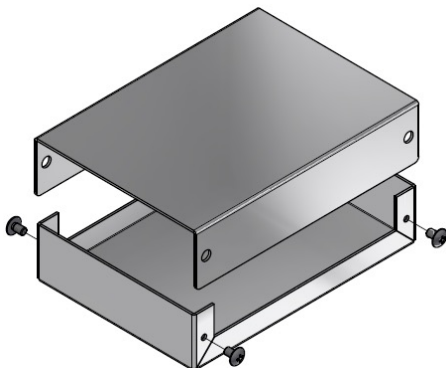
EXTRUDED ALUMINIUM MODEL



4 SIDE-EXTRUDED ALUMINIUM MODEL



SHEET METAL MODEL



More custom sized models are available.

https://www.takachi-enclosure.com/cat/flexible_size

INQUIRING CUSTOM SIZED ENCLOSURES

- 1 Navigate to the free-size product page you wish to inquire on our website and click on the button indicated by the  arrow.



Custom sized shock-proof design instrument enclosure.
Corner guards are designed to be both aesthetically pleasing, and impact resistant.

Selectable 22 different Width/Height profiles and specified length (depth) from 40 to 500mm in 1mm intervals.
16 different color combinations can be specified.

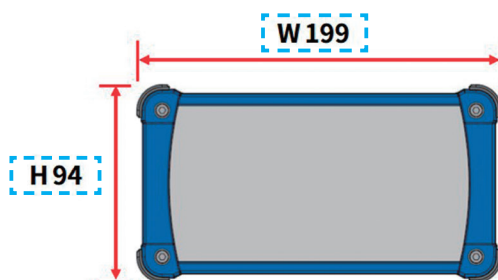


CUSTOM SIZE WEB QUOTATION	3D View - Silver/Navy	3D View - 16 color types
3D View - With tilt legs	Exploded view	Color code

■ If there is no "WEB QUOTATION" click button, please send us your inquiry from the "INQUIRY FORM" on the CONTACT tab on our website.

- 2 Go to the CUSTOM SIZE WEB QUOTATION page and enter your preferred dimensions.

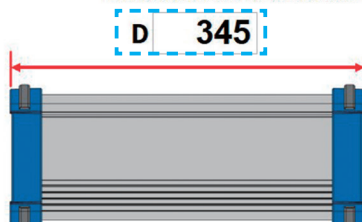
STEP1 Select required width / height.



Select	W	H	Select	W	H
☐	69	34	☐	151	81
☐	69	44	☐	151	101
☐	69	59	☐	199	56
☐	89	39	☐	199	74
☐	89	49	☒	199	94
☐	89	64	☐	199	119
☐	116	41	☐	244	64
☐	116	56	☐	244	89
☐	116	71	☐	244	114
☐	151	46	☐	300	90
☐	151	61	☐	300	140

STEP2 Specify size D(depth) ... Enter dimensions in 1mm intervals.

Available from 40 to 500mm



*NOTE: Specified size D(depth) $\neq$ available internal dimension

Available internal dimension = **D dimension - 20mm**

Please take caution when calculating required D dimension.

- 3 After entering the quantity, click on the button indicated by the → arrow to generate a Product No.

STEP4 **Quantity** ※Quantity can be specified up to 5 slots.

10 pcs

▶Add quantity



▶ **GENERATE PRODUCT NO.**

Product No. **EXPS199 – 94 – 345SN** ※Please use this model number when ordering.

- 4 After entering your details and the message in our INQUIRY FORM, click on the CONFIRM button.

STEP5 **INQUIRY FORM**

Fill out the inquiry form and send it. We will give you quotation by Email.
Inquiry from the country where the distributor is located will be answered by the distributor.

Fields marked with ★ are required

Product No. **EXPS199-94-345SN** Quantity ★ 10

E-mail ★ jiro@takachi-el.co.jp

Company ★ TAKACHI ELECTRONICS ENCLOSURE CO., LTD.

Your name ★ ☐ Mr. ☒ Ms. First name Jiro Last name Takachi

Country ★

Message
I would like a quote for 10 pieces of EXPS199-94-345SN.



▶ **CONFIRM**

Our privacy policy have been designed to ensure that personal information is not misused or used for purposes other than it is intended for.
[PRIVACY POLICY](#)

- 5 A TAKACHI sales representative will get in touch with you with a quote via e-mail.



QUOTATION REQUEST • DRAWINGS SUBMISSION

■ Customizing order available from just 1 unit!

TAKACHI can provide quotations and orders regardless of quantity.

To provide quotes or place an order, a processing drawings is required. Sketch drawings is also acceptable as long as the necessary information and intention can be conveyed to TAKACHI.

TAKACHI prepares CAD data files for all products. You can download them for free of charge. Please utilize them to help to design and create your processing drawings.

Caution

- For a quicker response with a quotation, fill all the required dimensions in large letters for clarity.
 - Make sure that the dimension lines are drawn from the origin (corner of the product) whenever possible.
Note that the dimensions from points where the origin cannot be determined will vary slightly due to product tolerances and processing tolerances.
 - For products that have a top/bottom/left/right or front/back orientation and no instructions are given, we may contact you to confirm the details.
 - Prepare printing data separately from hole and cutout processing drawings.
 - The quotation will be processed from the point when all the requirements on the drawing are confirmed.
- If this is your first time creating a drawing, please scan the QR code below and refer to "How to Draw Technical Drawings for Customizing Services" on our website.

HOW TO DRAW TECHNICAL DRAWINGS



For a smooth process for customization service



https://www.takachi-enclosure.com/custom/how_to_draw

APPROVAL DRAWINGS SERVICE

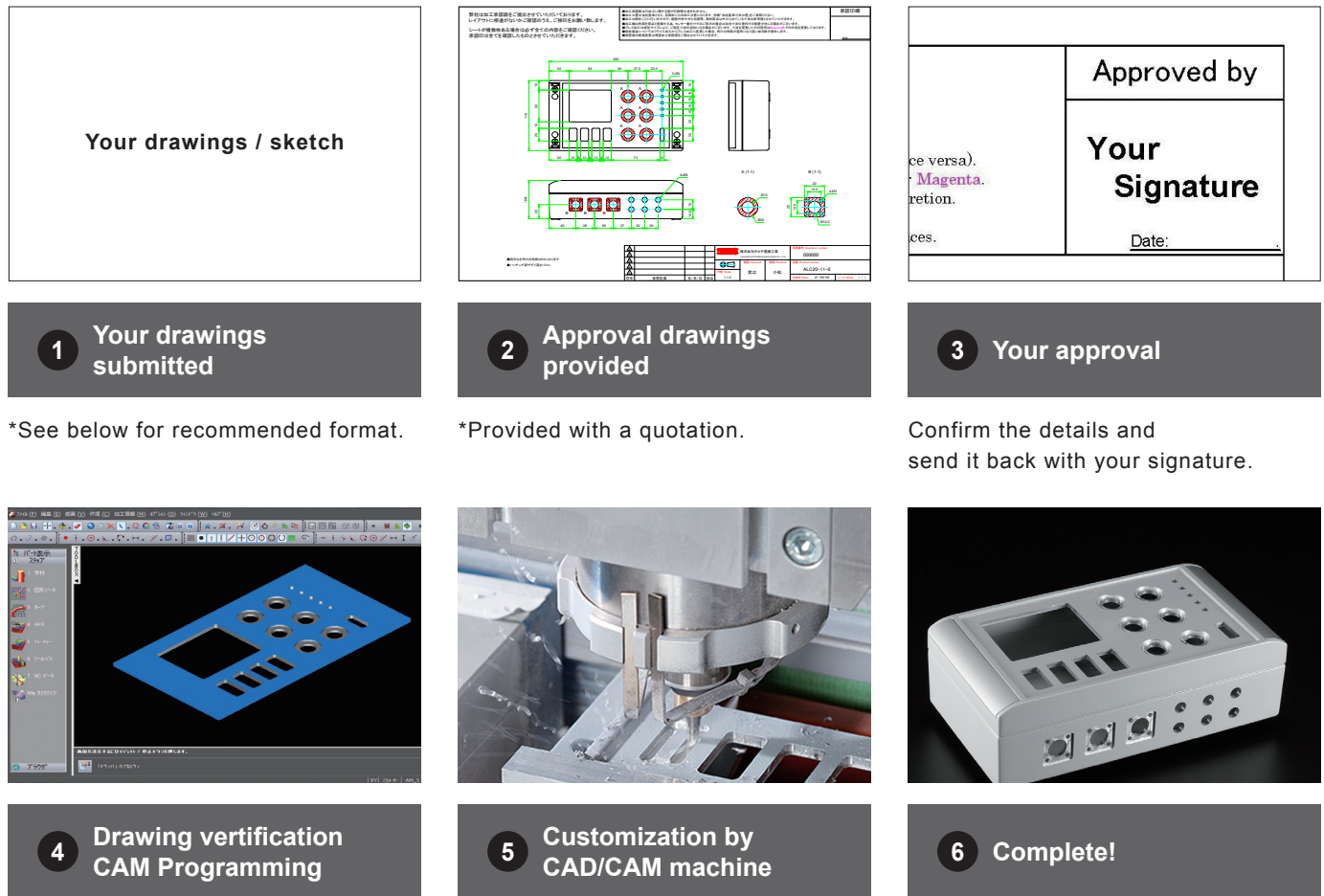
■ Preventing misunderstandings between our customers and TAKACHI.

For all hole and cutout processing orders, TAKACHI provides approval drawings when we respond with a quotation. This prevents delays in delivery due to misunderstandings between our customers and TAKACHI regarding production and processing, or unnecessary confirmation time after receiving an order.

Caution

- An approval drawing is provided together with a quotation. Check that there are no errors in the processing details.
Approve it with your signature.
- Place your order with your signed approval drawings. An order without your signed approval drawings would not be processed. Thank you for your understanding.
- Approval drawings is not required for repeated orders.
- If there are any changes after receiving the order, the approval drawings would be provided again.

■ Process flow - from drawings submission to completion



Recommended format

Data format	File version
DWG	LT2000~2023
DXF	LT2000~2023

Sketch drawings are also acceptable as long as the necessary information and intention can be conveyed to TAKACHI.

*DWG / DXF drawings can be downloaded from our website

Note

We customize our products based upon your specified details on your CAD drawings.

Kindly prepare your CAD drawings without any mistakes, such as size difference, location, type, etc.

Please also prepare both CAD and PDF drawings with all the measurements (hole size, location, etc) annotated.

PHOTO INDEX

PLASTIC ENCLOSURES

 = EMC Shielding

NEW **IP67**



IP67 WEARABLE ENCLOSURE
SMW series

P1-4

NEW SIZE



IoT SMALL PLASTIC CASE
SIC series

P5-8

NEW SIZE



WALL MOUNT IoT SMALL PLASTIC CASE
SIM series

P5-6, 9-10



PORTABLE PLASTIC CASE with SILICONE COVER
CSS series

P13-18



PORTABLE PLASTIC CASE
CS series

P13-16, 19-20



SILICONE COVER for CS
CSSC series

P13-16, 21



PORTABLE PLASTIC CASE
PS series

P23-26

IP67 **NEW SIZE**



IP67 PORTABLE PLASTIC CASE
WC series

P27-32



STRAP
STPS series

P34

IP67



IP67 HAND-HELD ENCLOSURE
WH series

P35-40



HAND-HELD CASE with SHOCKPROOF SILICONE COVER
LCT series

P41-48



HAND-HELD CASE with SILICONE COVER
LCS series

P41-44, 49-52



HAND-HELD PLASTIC CASE
LC series

P41-44, 53-54





EMC SHIELDED HAND-HELD CASE
LCE series

P41-44, 49-52



SHOCKPROOF SILICONE COVER & SILICONE COVER for LC • LCE
LCTP & LCSC series

P57-58

PHOTO INDEX

PLASTIC ENCLOSURES

IP67



IP67 SLOPED PLASTIC CASE
WSC series

P59-62



SHOCKPROOF PLASTIC ENCLOSURE
PFG series

P63-66



NETWORK PLASTIC BOX
PF series

P67-72




EMC SHIELDED PLASTIC BOX
PFE series

P67-70, 73-74



FLANGED NETWORK PLASTIC BOX
PFF series

P67-70, 75-76



FLANGED PLASTIC ENCLOSURE
TWF series

P77-80



PLASTIC ENCLOSURE with SILICONE PROTECTOR
TWS series

P81-86



MULTIPURPOSE PLASTIC ENCLOSURE
TW • TWN series

P81-82, 87-88



SILICONE PROTECTOR for TW • TWN
TWSC series

P89



SILICONE BAND
SIB series

P90

DIN-RAIL PRODUCTS

NEW SIZE



DIN-RAIL BOX
DRC series

P91-92

NEW



DIN-RAIL MOUNT ENCLOSURE
DRB series

P93-94

NEW SIZE



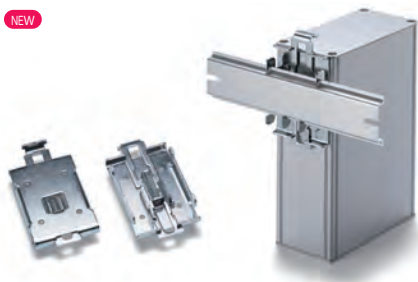
DIN-RAIL MOUNTING BASE
DRP series

P95

PHOTO INDEX

DIN-RAIL PRODUCTS

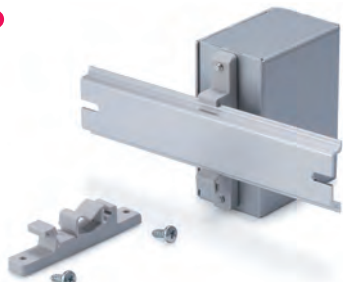
NEW



DIN-RAIL MOUNT BRACKET
DRM-1 series

P96

NEW



DIN-RAIL MOUNTING BRACKET
DRF series

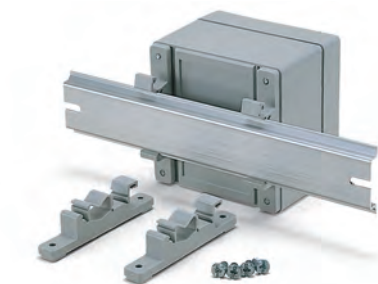
P97

NEW TYPE



DIN-RAIL MOUNTING BASE
DRT series

P98



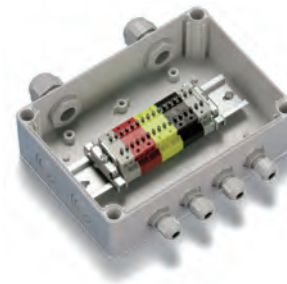
DIN-RAIL MOUNTING FEET
CKD series

P98



DIN-RAIL TERMINAL BLOCK END STOPPER & DIN-RAIL END STOPPER
TKR & DRS series

P99



DIN-RAIL
FDR series

P100

IP68/IP67/IP65 PLASTIC ENCLOSURES

IP44



ECONOMICAL OUTDOOR NETWORK BOX
OB series

P101-104

IP68 NEW SIZE NEW



IP68 WATERPROOF ASA/PC+ASA BOX
WG + WGPC series

P105-108

IP68 NEW SIZE



IP68 PLASTIC ENCLOSURE with VENTILATION PLUG
WGV series

P105-106, 109-110

IP68 IP67



IP68 / IP67 NETWORK PLASTIC BOX
WP series

P117-122

IP65



IP65 LATCH-HINGED ABS / POLYCARBOTANATE PLASTIC BOX
BCAP + BCPC series

P127-132

IP65



IP65 POLYCARBONATE PLASTIC BOX with LOCK
BCPK series

P127-130, 133-134

IP65



IP65 ABS / POLYCARBONATE PLASTIC BOX with OUTDOOR ROOF
BCAR + BCPR series

P127-130, 135-136

PHOTO INDEX

⚡ = EMC Shielding ⚡ = Conductive 🔥 = Heat Resistant

IP68/IP67/IP65 ALUMINIUM ENCLOSURES



IP68 DIECAST ALUMINIUM ENCLOSURE
DW series P147-150



IP68 HEATSINK DIECAST ALUMINIUM ENCLOSURE
DWH series P147-148, 151-152



IP67 DIECAST ALUMINIUM BOX
BDN series P155-156



IP68 FLANGED ALUMINIUM ENCLOSURE
AW series P157-160



IP68 HEAT-SINK ALUMINIUM ENCLOSURE
AWN series P157-158, 161-162



IP68 ALUMINIUM ENCLOSURE with SILICONE PROTECTOR
AWP series P157-158, 163-164



SILICONE PROTECTOR for AWN
AWSP series P157-158, 165



IP65 FLANGED ALUMINIUM CASE
EXWF series P167-168



IP65 ALUMINIUM CASE with CORNER GUARD
EXW series P169-170

PHOTO INDEX

JUNCTION BOXES • CABLE GLANDS • VENTILATION PARTS

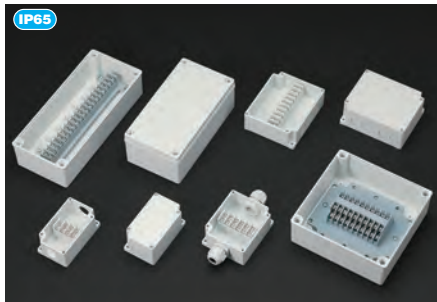
IP65



TERMINAL JUNCTION BOX
TMC series

P171-172

IP65



TERMINAL JUNCTION BOX
TMB series

P173-175

IP68



IP68 HINGED TERMINAL BLOCK JUNCTION BOX
JW series

P177-180



WEATHERPROOF CABLE GLAND
RMW series

P181-182



POLYAMIDE CABLE GLAND
RM series

P183



STRAIN RELIEF CABLE GLAND
RSP series

P184

NEW



HIGH WATER PROTECTION CABLE GLAND
AG series

P185-186



MULTI-HOLE CABLE GLAND
RMH series

P187



IP67 SPLIT INSERT CABLE GLAND
RSC series

P188

NEW



METAL CABLE GLAND
AGM series

P189-190



EMC SHIELDED CABLE GLAND
AGE series

P191-192



LOW COST IP67 METAL CABLE GLAND
RMC series

P193



BLIND PLUG with O-ring
SHP series

P194



VENTILATION PLUG
CVP series

P195



SMALL PROTECTIVE VENT
PMF-6B

P196

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JUNCTION BOXES • CABLE GLANDS • VENTILATION PARTS



PROTECTIVE VENT
PMF series P197



LARGE PROTECTIVE VENT
PMF-32 P198



METAL VENTILATION PLUG
CVP-M series P199



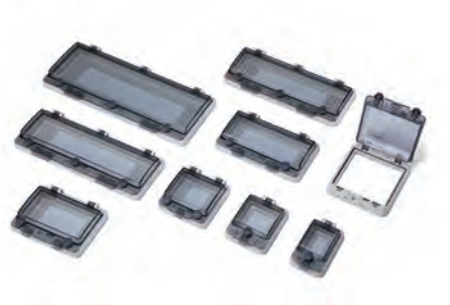
STAINLESS STEEL PROTECTIVE VENT
PMF-12M P200



ADHESIVE PROTECTIVE VENT FILTER
VE8 series P201



VENTILATION LOUVER & VENTILATION PARTS
V & VF series P202



HINGED INSPECTION WINDOW
IW series P203-204



POLE MOUNTING BRACKET for BCAP • BCAR • BCPC • BCPK • BCPR
SSK series P205-206



STAINLESS STEEL POLE MOUNTING STRAP
SNB series P207



POLE MOUNTING BELT
PKB series P208

PHOTO INDEX

ALUMINIUM PROFILE ENCLOSURES

🛡️ = EMC Shielding ⚡ = Conductive



ALUMINIUM MOBILE ENCLOSURE with SILICONE BAND
MXB series P209-214



ALUMINIUM MOBILE ENCLOSURE
MXA series P209-212, 215-216



MOBILE ENCLOSURE
MX series P209-212, 217-218



FLANGED NETWORK ALUMINIUM ENCLOSURE
MXF series P209-212, 219-220



ALUMINIUM PANEL CASE with CORNER GUARD
EXP series P221-226



ALUMINIUM EMC SHIELDED CASE with CORNER GUARD
EXPE series P221-224, 227-228



ALUMINIUM PANEL CASE with TILT LEG
EXPT series P221-224, 229-230



EXTRUDED ALUMINIUM CASE
EX series P221-224, 231-232



FLANGED ALUMINIUM PANEL CASE
EXPF series P221-224, 233-234



FLANGED ALUMINIUM EMC SHIELDED CASE
EXEF series P221-224, 235-236



WALLMOUNT EXTRUDED ALUMINUM ENCLOSURE
EXF series P221-224, 237-238



TILT LEG
TLW series P239

METAL INSTRUMENT ENCLOSURES



ALUMINIUM ENCLOSURE
AU series P241-248



ALUMINIUM ENCLOSURE with DETACHABLE PANELS
AUP series P241-242, 249-254



EMC SHIELDED ENCLOSURE with DETACHABLE PANELS
AUPE series P241-242, 255-260

PHOTO INDEX

METAL INSTRUMENT ENCLOSURES

NEW SIZE



ALUMINIUM CONTROL BOX
AUX series P241-242, 261-266

NEW SIZE



EMC SHIELDED ALUMINIUM CONTROL BOX
AUXE series P241-242, 267-272



WALL MOUNT SUPPORT ARM
MAR series P273-274

NEW SIZE



ALUMINIUM ENCLOSURE with CORNER GUARD
AUG series P241-242, 275-280

NEW SIZE



EMC SHIELDED ALUMINIUM ENCLOSURE with CORNER GUARD
AUXE series P241-242, 281-286

NEW SIZE



PORTABLE ALUMINIUM INSTRUMENT CASE with HANDLE
AUGH series P241-242, 287-292



CORNER GUARD for AU series
AUCG series P294

⚡



HIGH-END DESIGN ALUMINIUM CASE
HD series P295-298



UNIVERSAL ALUMINIUM CASE with CORNER GUARD
UCG series P299-300

NEW COLOR



UNIVERSAL ALUMINIUM CASE
UC series P301-302



DESKTOP ENCLOSURE
MS series P305-308



TILT LEG
TL series P310



CABLE HOOK
CBF-1G P310



SLOPED ENCLOSURE
CF series P311-312

PHOTO INDEX

HEATSINK ENCLOSURES

 = EMC Shielding
  = Conductive
  = Heat Resistant



HEAT-SINK ALUMINIUM ENCLOSURE
EXH series P313-318



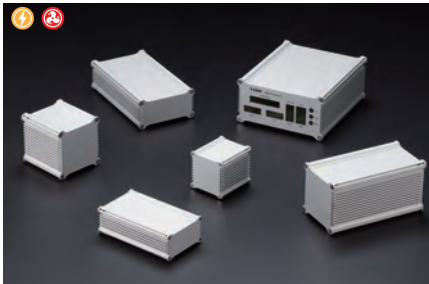
HEAT-SINK ALUMINIUM EMC SHIELDED ENCLOSURE
EXHE series P313-316, 319-320



FLANGED HEAT-SINK ALUMINIUM ENCLOSURE
EXHF series P313-316, 321-322



FLANGED HEAT-SINK ALUMINIUM EMC SHIELDED ENCLOSURE
EXHFE series P313-316, 323-324



HEAT-SINK ALUMINIUM ENCLOSURE
AWA series P325-328



HEAT-SINK ALUMINIUM ENCLOSURE
HY series P329-330



MOUNTING PLATE for HY • HYR • HYRH
HYC series P331



ALUMINIUM ISOLATION FEET
AFS • AFM series P333



PLATED PLASTIC FEET & ALUMINIUM FEET
RS & TC series P334

ALUMINIUM ENCLOSURES



ALUMINIUM CONTROL BOX
AUH series P335-339

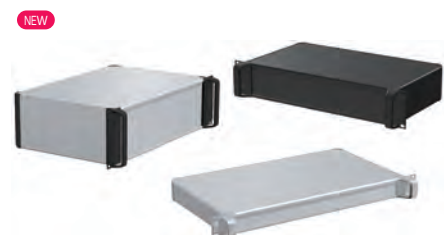


OPEN-CLOSING CONTROL BOX
FCW series P341-344



ALUMINIUM CONTROL BOX
FC series P345-350

RACK MOUNT ENCLOSURES



19" RACK MOUNT ENCLOSURE
AUR series P353-354



19" RACK MOUNT ENCLOSURE with DETACHABLE PANELS
AUPR series P355-356



EMC SHIELDED 19" ENCLOSURE with DETACHABLE PANELS
AUPRE series P357-358

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RACK MOUNT ENCLOSURES

NEW



19" RACK MOUNT ENCLOSURE
AUXR series P359-360

NEW ⚡



EMC SHIELDED 19" RACK MOUNT ENCLOSURE
AUXRE series P361-362

🔥



HEAT-SINK RACK MOUNTING ENCLOSURE
HYR series P363-364

🔥



HEAT-SINK RACK MOUNTING ENCLOSURE with HANDLE
HYRH series P363-366

Raspberry Pi ENCLOSURES

NEW TYPE 🔥



Raspberry Pi HEAT-SINK ALUMINIUM CASE
RPH series P367-370

NEW TYPE 🔥



DIN RAIL MOUNT Raspberry Pi HEAT-SINK CASE
RPHD series P367-368, 371-372

NEW TYPE



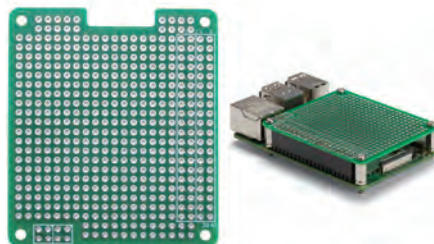
Raspberry Pi ACRYLIC CASE
RPA series P373-374

⚡

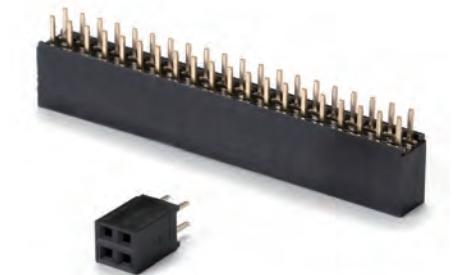


Raspberry Pi ALUMINIUM CASE
RPI series P375-376

NEW TYPE



EXPANSION PCB for Raspberry Pi
RPBC series P377



PIN SOCKET CONNECTOR for RPBC
RPS series P378



MOUNTING SCREW for RPSP2.5-11
MT2.5-4 P378

NEW



ROCK 5A/4C+ ALUMINIUM CASE
ROCK-5A P379

PHOTO INDEX

ACCESSORIES



EMBEDDED BATTERY BOX
BC series

P381-383



LITHIUM BATTERY HOLDER & HOLDER with LEAD WIRE
CR2•CR123A-PC & CR2•CR123A-R series

P384



RUBBER STRAIN RELIEF CORD PROTECTOR
CBS series

P385



RUBBER GROMMET
NG series

P386



NYLON SNAP BUSHING GROMMET
NB series

P387



RUBBER MEMBRANE GROMMET
SG series

P388



STRAP & KEY RING
STP series & CR-20

P389



PLASTIC BELT CLIP & STEEL BELT CLIP
GDH & DK series

P390



SUSPENSION BRACKET
WM series

P391



NEODYMIUM MAGNET
NMG series

P392



DOUBLE-SIDED MOUNTING TAPE
DST series

P393



INSERT NUT ADHESIVE STANDOFF & ADHESIVE PCB STANDOFF
AST & ASR series

P394



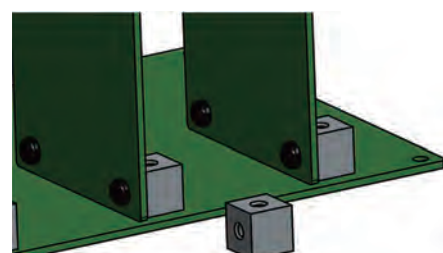
LOCKING PCB ADHESIVE STANDOFF
ASL series

P395



SCREWLESS PCB ADHESIVE STANDOFF
ULCK series

P396



CUBE STANDOFF
CUBE series

P396

PHOTO INDEX

ACCESSORIES



TAPPING STANDOFF
TPS series

P397



PCB MOUNTING SCREW
MT series

P397



PCB MOUNTING SCREW & TORX SCREW
EM & MR series

P398

IP67 WEARABLE ENCLOSURE

**A stylish design enclosure with wrist strap,
perfect solution for wearable devices.**

SMW series



**Stylish and luxurious mirror
finish enclosure body**



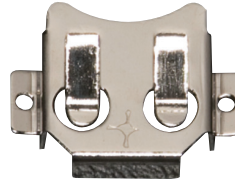
**Water-repellent comfortable
silicone wrist strap**



High water resistance of IP67 (equivalent) withstands submersion in 1m depth for 30 minutes.
Degradation resistant silicone gasket for long-lasting performance.



Tabbed battery and coin battery holder can be installed.



For various wearable IoT devices

Suitable for small IoT devices including LoRaWAN and Sigfox, detectors, RFID tags, GPS terminals and others.

Environmental sensor



Access control system



GPS tracker



Emergency alert system



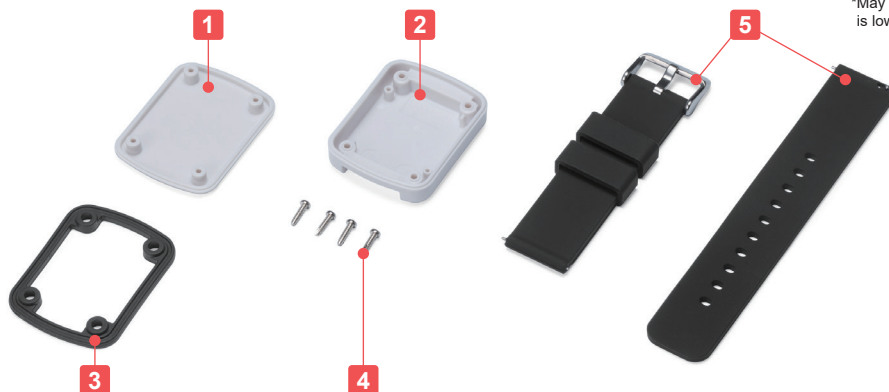


- Wearable enclosure with IP67 waterproof rating (30min / 1m-depth).
- Off-white models are made of weather-resistant ASA material. Suitable for devices intended to be used under direct sunlight.
- Stylish and easy-to-wear design that suits any situations.
- Suitable for detectors, GPS terminals, RFID devices, small IoT devices and others.

Technical Data

Protection class : IP67 (30min / 1m-depth)
 Operating temperature
 Black (ABS) : -10°C ~ +60°C
 Off-white (ASA) : -30°C ~ +60°C
 Recommended torque : SMW-46□ : 0.2N • m
 SMW-50□ : 0.35N • m

*May become brittle and break under impact when temperature is lowered close to -30°C.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS (UL94HB)	Black / Polished
			ASA (UL94HB)	Off-white / Polished
2	Bottom cover	1	ABS (UL94HB)	Black / Polished
			ASA (UL94HB)	Off-white / Polished
3	Gasket	1	Silicon	Black
4	Tapping screw	4	Stainless steel	Unfinished
5	Wrist strap	1	Silicon • Stainless steel	Black • Polished

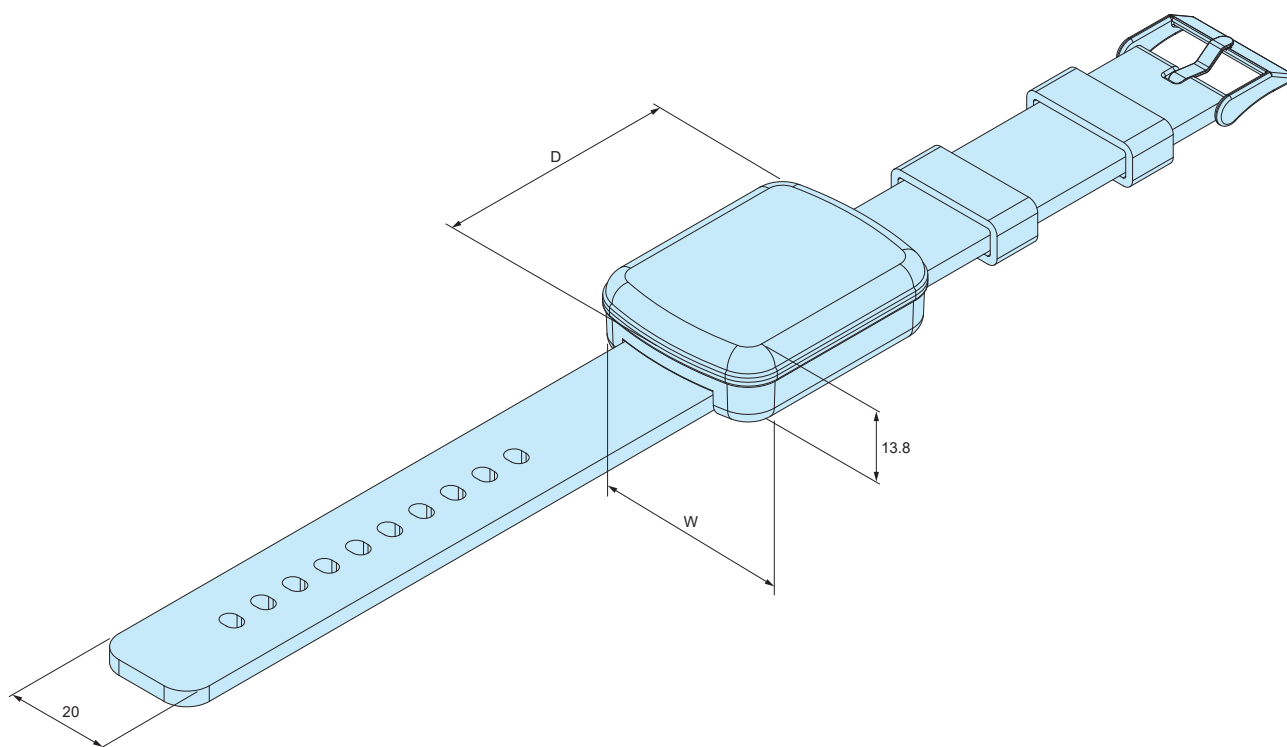
Accessories (Optional parts)



PCB mounting screw
EM-1.6
See page 398

SMW dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.		External dimensions		Weight (g)
● Black	● Off-white	W	D	
SMW-46B	SMW-46W	36	46	28
SMW-50B	SMW-50W	44	50	30.5

Accessories (Optional parts) – COIN CELL BATTERY HOLDERS



- Various coin cell battery holders can be stored.
See coin cell battery holders on our website for more details.
- Chart on the right is based upon mounting onto a 1.0mm thick PCB and attached to the top cover.
- Please note that depending on the mounting location, PCB may not be able to be properly affixed on.

COMPATIBLE COIN CELL BATTERY HOLDERS CHART

Product no.	Compatible coin cell battery holders
SMW-46□	PB621 BK-879 • 2032M BS-M-1225 • BS-S-1225 • SMTM1632
SMW-50□	PB621 BK-879 • 5067 • 2430SM • 2032M BS-M-1225 • BS-S-1225 • SMTM1632 • 2032

NEW COMPACT PLASTIC CASE for NEXT GENERATION IoT

Stylish and elegant plastic case for use with all your IoT related devices

SIC•SIM series



Sleek & Glossy Finish High Performance Case



Multipurpose & Wall Mount Models Available

Multipurpose Model
SIC series



Wall Mount Model
SIM series



COMPACT PLASTIC CASE for IoT DEVICES

SIC • SIM series are snap-in type compact-sized plastic case without screws.

Despite the small size, ample internal space is achieved by a snap-in assembly construction.

A rounded design yet having flat surfaces enables easy customization such as hole milling or printing.

Ideal for small IoT appliances such as LoRa WAN or Sigfox power-saving communication devices, RFID or GPS gadgets, or network sensors.

Wall Mount Communication Network Device



RFID Reader



Remote Controller

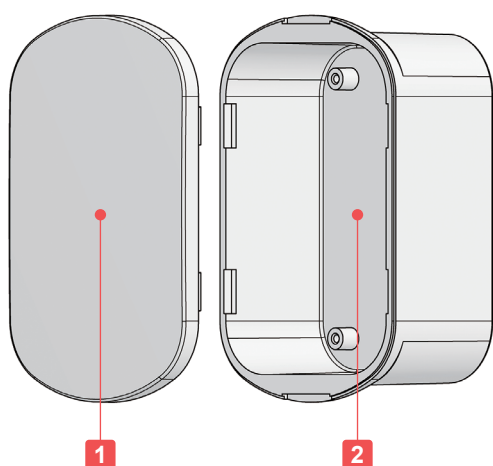


Security Sensor



USB Data Logger





Technical Data

Protection class : IP40
 Operating temperature
 Black (ABS) : -10°C ~ +60°C
 Off-white (ASA) : -30°C ~ +60°C

*May become brittle and break under impact when temperature is lowered close to -30°C.

- 8 new sizes added for a total of 19 different sizes available for selection.
- Small rounded design plastic case ideal for use as IoT devices.
- Easy and tool-less assembly snap-in case.
- While being small in size, there is ample internal space by utilization of the snap-in structure.
- The polished surface also provides a high-end finish and gives off a superior quality and feel while having superb cost performance.
- Off-white models are made of weather-resistant ASA material. Suitable for devices intended to be used under direct sunlight.
- Optional universal PCB, PCB32-53 is compatible with SIC5-7-2 and 5-7-3 models. See PCB series on our website for more details.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	ABS UL94HB	Black / Polished
			Weather-resistant ASA UL94HB	Off-white / Polished
2	Base	1	ABS UL94HB	Black / Polished
			Weather-resistant ASA UL94HB	Off-white / Polished

Accessories (Optional parts)



Rubber strain relief cord protector
 CBS series
 See page 385

Double-sided mounting tape DST series
 See page 393

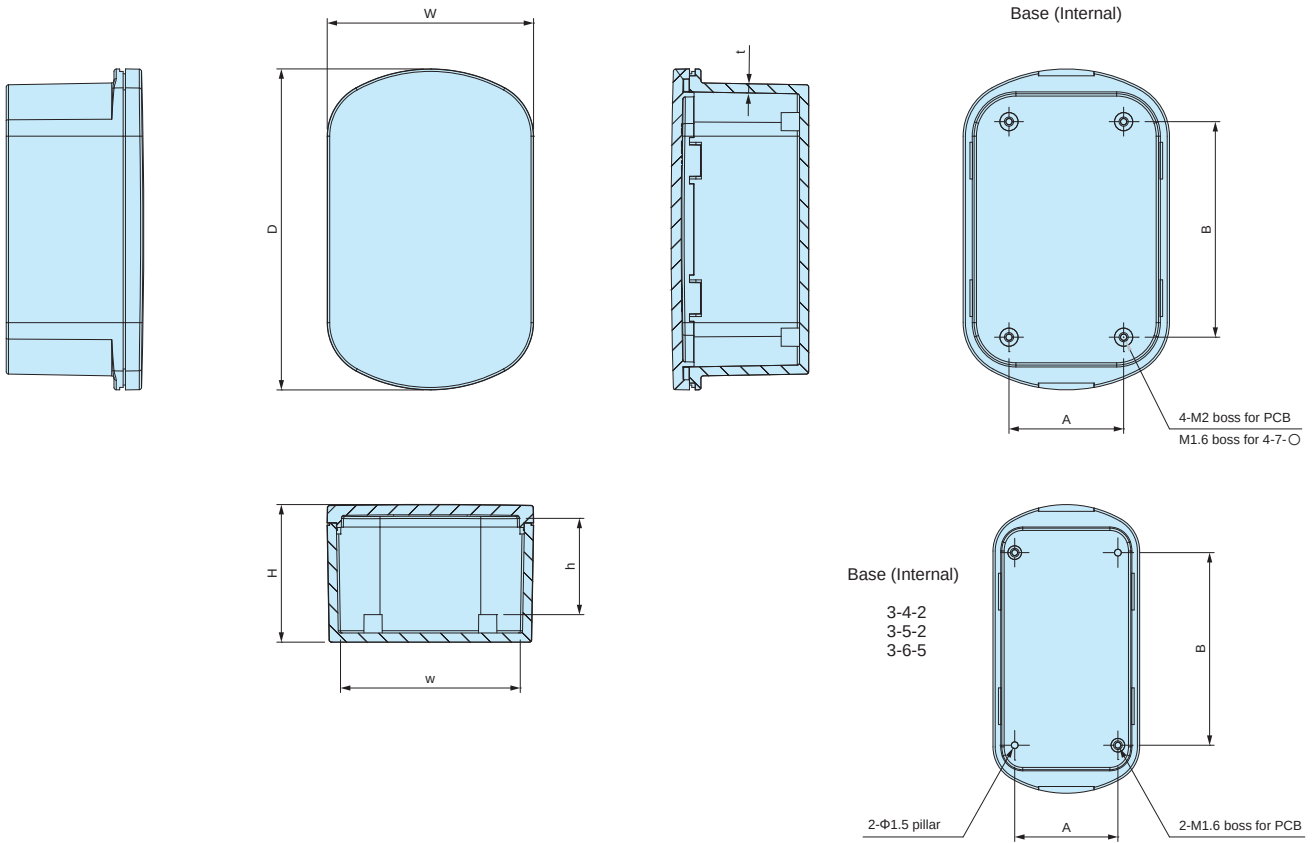
Neodymium magnet NMG series
 See page 392

PCB mounting screw EM-2
 See page 398

Universal PCB PCB series
 See website

SIC dimensions

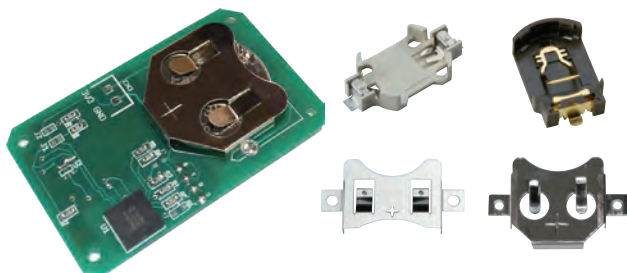
■ DXF/DWG/PDF/STP drawings available on our website.



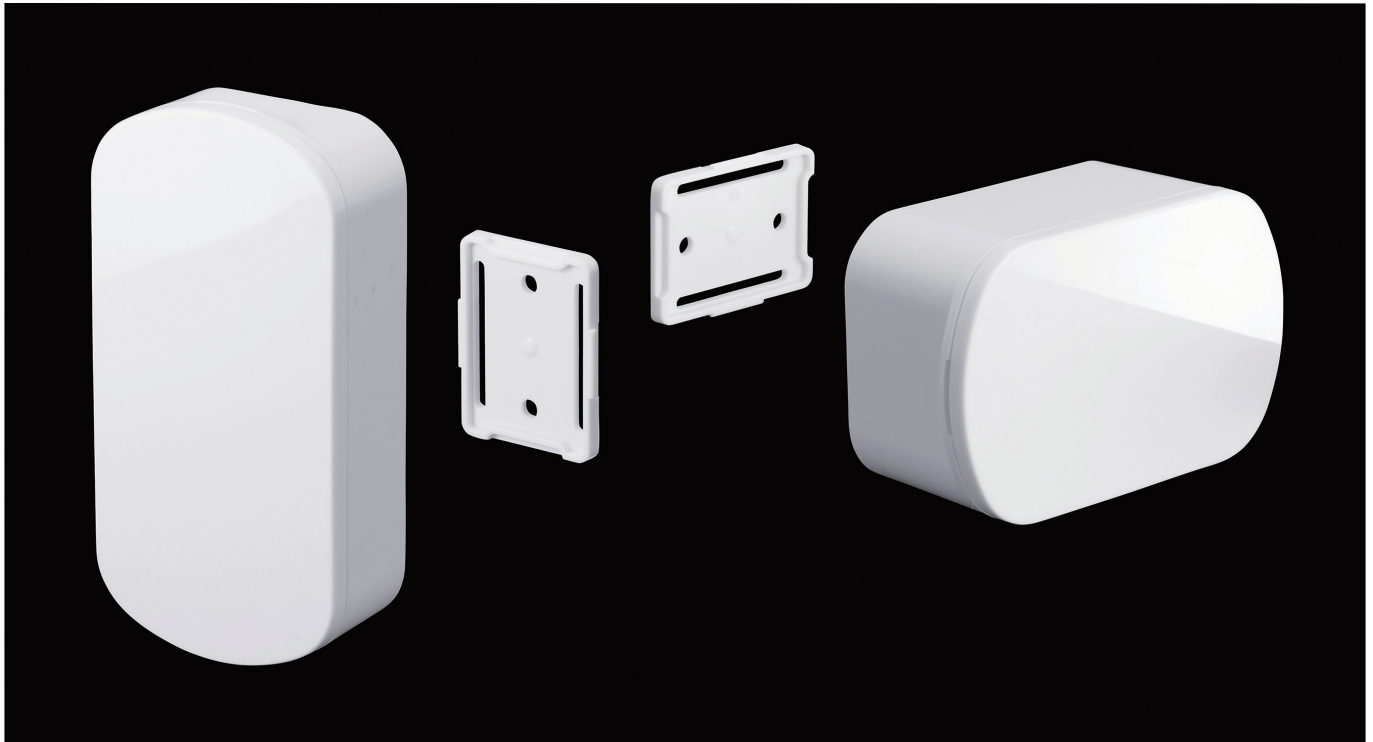
Product no. / Details

Product no.		External dimensions			Internal dimensions			Boss pitch		t	Weight (g)
● Black	● Off-white	W	D	H	w	d	h	A	B		
NEW SIC2- 4-1B	NEW SIC2- 4-1W	20	35	13	15.3	23.6	8.7	—	—	1.7	4.4
NEW SIC2- 5-1B	NEW SIC2- 5-1W	20	50	13	15.3	38.6	8.6	—	—	1.7	6.2
SIC3- 4-2B	SIC3- 4-2W	30	40	18	25.1	28.6	11.1	16.5	24	1.7	7.8
SIC3- 5-2B	SIC3- 5-2W	25	54	18	20.1	42.6	11.1	15.5	35	1.7	9.2
SIC3- 6-2B	SIC3- 6-2W	32	63	20	27.1	51.6	13	22.5	42	1.7	13.2
SIC4- 7-1B	SIC4- 7-1W	38	65	14	32.7	53.3	6.4	24	45.5	2	14.8
SIC4- 7-2B	SIC4- 7-2W	38	65	22	32.4	53	14.4	24	45.5	2	17.7
SIC5- 5-2B	SIC5- 5-2W	45	50	20	39.5	38.5	10.9	25	27	2	14.9
SIC5- 5-3B	SIC5- 5-3W	45	50	30	39.1	38.1	20.9	25	27	2	18.1
SIC5- 7-2B	SIC5- 7-2W	45	70	20	39.5	58.5	10.9	25	47	2	20.1
SIC5- 7-3B	SIC5- 7-3W	45	70	30	39.1	58.1	20.9	25	47	2	24.1
SIC5- 9-2B	SIC5- 9-2W	45	90	20	39.5	78.5	10.9	25	67	2	24.9
SIC5- 9-3B	SIC5- 9-3W	45	90	30	39.1	78.1	20.9	25	67	2	29.4
NEW SIC6- 7-3B	NEW SIC6- 7-3W	60	65	25	54.3	53.6	15.9	40	40	2	26.8
NEW SIC6- 7-4B	NEW SIC6- 7-4W	60	65	38	53.9	53.1	28.9	40	40	2	32.6
NEW SIC6- 9-3B	NEW SIC6- 9-3W	60	90	25	54.3	78.6	15.9	40	65	2	36.3
NEW SIC6- 9-4B	NEW SIC6- 9-4W	60	90	38	53.9	78.1	28.9	40	65	2	43.6
NEW SIC6-12-3B	NEW SIC6-12-3W	60	120	25	54.3	108.6	15.9	40	95	2	46.9
NEW SIC6-12-4B	NEW SIC6-12-4W	60	120	38	53.9	108.1	28.9	40	95	2	55.9

Accessories (Optional parts) COIN CELL BATTERY HOLDERS



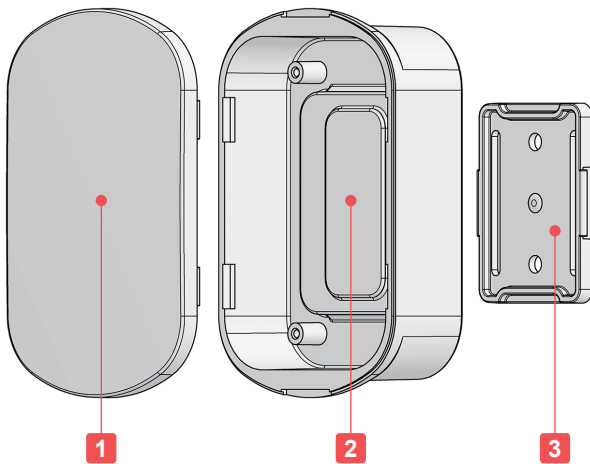
- Various coin cell battery holders can be utilized.
See coin cell battery holders on our website for more details.
- Please note that depending on the mounting location, PCB may not be able to be properly affixed on.



Technical Data

Protection class: IP40
Operating temperature: -30°C ~ +60°C

*May become brittle and break under impact when temperature is lowered close to -30°C.

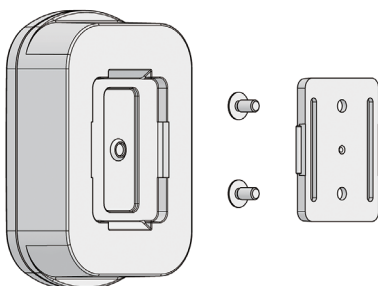


- 6 new sizes added for a total of 14 different sizes available for selection.
- Small rounded design plastic case ideal for use as IoT devices.
- Easily attached to, or detached from the wall by using the wall mounting bracket.
- Made of weather-resistant ASA material.
Suitable for devices intended to be used under direct sunlight.
- Optional universal PCB, PCB32-53 is compatible with SIM5-7-2 and 5-7-3 models. See PCB series on our website for more details.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Weather-resistant ASA UL94HB	Off-white / Polished
2	Base	1	Weather-resistant ASA UL94HB	Off-white / Polished
3	Wall mounting bracket	1	Weather-resistant ASA UL94HB	Off-white / Polished

Bracket installation



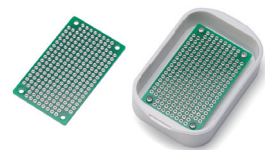
Accessories (Optional parts)



Rubber strain relief cord protector
CBS series
See page 385



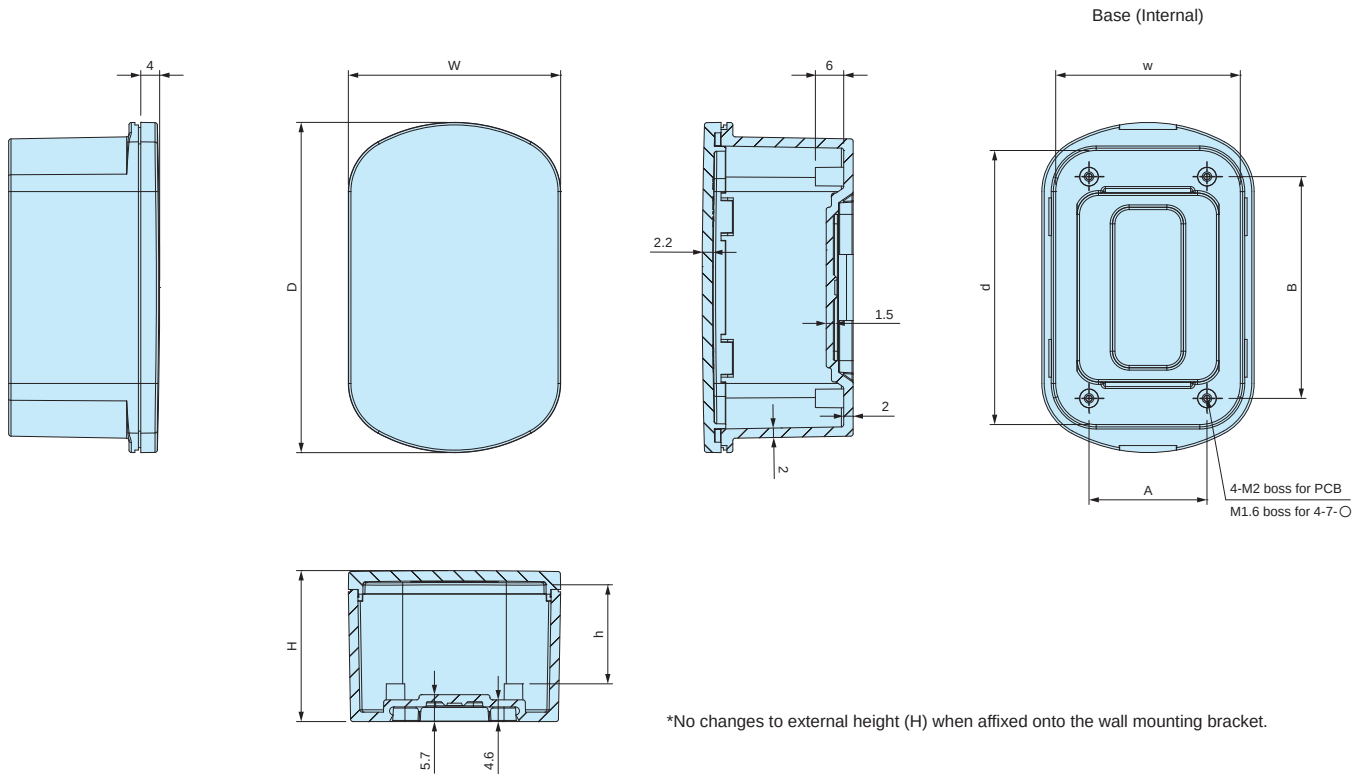
PCB mounting screw EM-2
See page 398



Universal PCB PCB series
See website

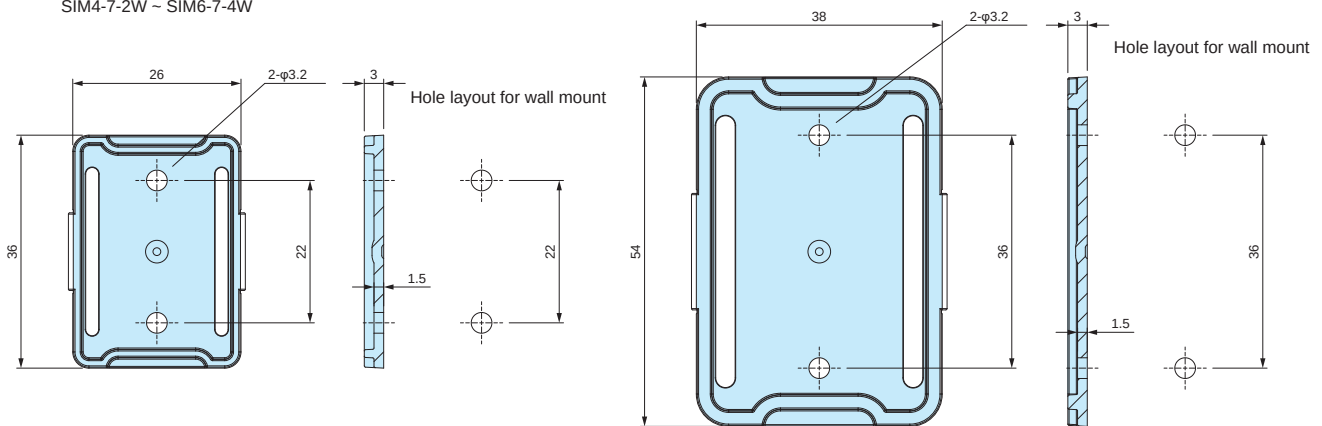
SIM dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



SIM6-9-3W ~ SIM6-12-4W

SIM4-7-2W ~ SIM6-7-4W

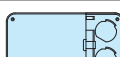


■ M3 screws for installation of bracket on walls are not included.

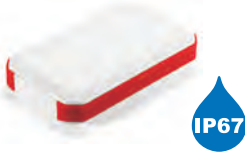
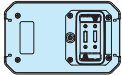
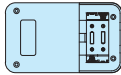
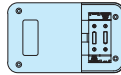
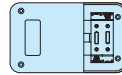
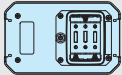
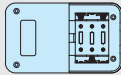
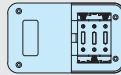
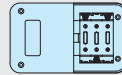
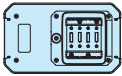
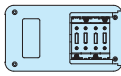
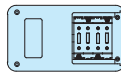
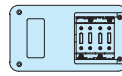
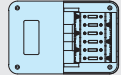
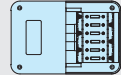
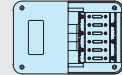
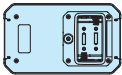
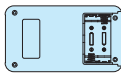
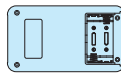
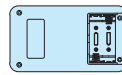
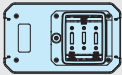
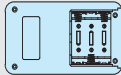
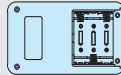
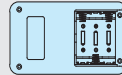
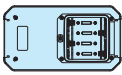
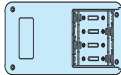
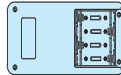
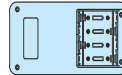
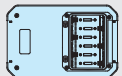
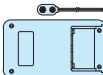
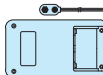
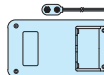
Product no. / Details

Product no.	External dimensions			Internal dimensions			Boss pitch		Weight (g)
	W	D	H	w	d	h	A	B	
SIM4- 7-2W	38	65	17	32.7	53.2	6.4	24	45.5	17.8
SIM4- 7-3W	38	65	25	32.4	52.9	14.4	24	45.5	20.7
SIM5- 5-2W	45	50	23	39.4	38.5	10.9	25	27	17.8
SIM5- 5-3W	45	50	33	39	38.1	20.9	25	27	20.9
SIM5- 7-2W	45	70	22	39.4	58.4	10.9	25	47	22.8
SIM5- 7-3W	45	70	32	39.1	58	20.9	25	47	25.9
SIM5- 9-2W	45	90	22	39.4	78.4	10.9	25	67	27.7
SIM5- 9-3W	45	90	32	39.1	78	20.9	25	67	32.3
NEW SIM6- 7-3W	60	65	27	54.2	53.5	15.9	40	40	29.3
NEW SIM6- 7-4W	60	65	40	53.8	53	28.9	40	40	34.9
NEW SIM6- 9-3W	60	90	27	54.2	78.5	15.9	40	65	40.9
NEW SIM6- 9-4W	60	90	40	53.8	78	28.9	40	65	47.9
NEW SIM6-12-3W	60	120	27	54.2	108.5	15.9	40	95	53.1
NEW SIM6-12-4W	60	120	40	53.8	108	28.9	40	95	62.1

BUILT-IN BATTERY COMPARTMENT MODEL CHART

Series Battery Compartment	WC series Page 29 ~ 32	CS series Page 19 ~ 20	CSS series Page 17 ~ 18
			
CR2032 x 1	 WC72-15 (43×15.5×72) WC72-21 (43×21.5×72) WC90-15 (44.2×15.7×90)	 CS75 (35×12×75) CS90 (45×12×90)	 CSS75 (38.6×15.5×78.6) CSS90 (48.6×15.5×93.6)
CR2032 x 2		 CS115 (63×12×115)	 CSS115 (67.1×16×119.1)
CR2450 / CR2477 x1	 WC100-20-R (49×20.5×100)	 CS100 (50×16.8×100)	 CSS100 (54.1×20.8×104.1)
AAA x 2	 WC105-28-F2 (50.5×28.2×105)		
AAA x 3			
AAA x 4			
AAA x 6			
AA x 2			
AA x 3			
AA x 4			
AA x 6			
9V x 1			

■ Enclosure shape, model number, and dimensions (W x H x D) are listed.

WH series Page 39 ~ 40	LC series Page 53 ~ 54	LCS series Page 49 ~ 52	LCT series Page 45 ~ 48
			
 WH125-20-F2 (79×20×126) WH125-28-F2 (79×28×126)	 LC115-F2 (69×19.5×115) LC115H-F2 (69×28×115)	 LCS115-F2 (74×24×120) LCS115H-F2 (74×32.5×120)	 LCT115-F2 (76×28×121.9) LCT115H-F2 (76×36.5×121.9)
 WH125-20-F3 (79×20×126) WH125-28-F3 (79×28×126)	 LC115-F3 (69×19.5×115) LC115H-F3 (69×28×115)	 LCS115-F3 (74×24×120) LCS115H-F3 (74×32.5×120)	 LCT115-F3 (76×28×121.9) LCT115H-F3 (76×36.5×121.9))
 WH145-20-F4 (88×20×146)	 LC135-F4 (76×27×135) LC135H-F4 (76×35×135)	 LCS135-F4 (81×32×141) LCS135H-F4 (81×40×141)	 LCT135-F4 (85×40×143.9) LCT135H-F4 (85×48×143.9)
	 LC145S-F6 (96×20×145) LC145-F6 (96×27×145) LC145H-F6 (96×35×145)	 LCS145-F6 (101×32×151) LCS145H-F6 (101×40×151)	 LCT145-F6 (105×40×153.9) LCT145H-F6 (105×48×153.9)
 WH145-25-M2 (88×25×146) WH145-33-M2 (88×33×146)	 LC115H-M2 (69×28×115) LC135-M2 (76×27×135) LC135H-M2 (76×35×135) LC145-M2 (96×27×145) LC145H-M2 (96×35×145)	 LCS115H-M2 (74×32.5×120) LCS135-M2 (81×32×141) LCS135H-M2 (81×40×141) LCS145-M2 (101×32×151) LCS145H-M2 (101×40×151)	 LCT115H-M2 (76×36.5×121.9) LCT135-M2 (85×40×143.9) LCT135H-M2 (85×48×143.9) LCT145-M2 (105×40×153.9) LCT145H-M2 (105×48×153.9)
 WH145-25-M3 (88×25×146) WH145-33-M3 (88×33×146)	 LC135-M3 (76×27×135) LC135H-M3 (76×35×135)	 LCS135-M3 (81×32×141) LCS135H-M3 (81×40×141)	 LCT135-M3 (85×40×143.9) LCT135H-M3 (85×48×143.9)
 WH170-25-M4 (95×25×171) WH170-33-M4 (95×33×171)	 LC145-M4 (96×27×145) LC145H-M4 (96×35×145) LC165-M4 (80×27×165) LC165H-M4 (80×35×165)	 LCS145-M4 (101×32×151) LCS145H-M4 (101×40×151) LCS165-M4 (85×32×171) LCS165H-M4 (85×40×171)	 LCT145-M4 (105×40×153.9) LCT145H-M4 (105×48×153.9) LCT165-M4 (89×40×173.9) LCT165H-M4 (89×48×173.9)
 WH190-25-M6 (126×25×191) WH190-33-M6 (126×33×191)			
	 LC115H-9V (69×28×115) LC135-9V (76×27×135) LC135H-9V (76×35×135)	 LCS115H-9V (74×32.5×120) LCS135-9V (81×32×141) LCS135H-9V (81×40×141)	 LCT115H-9V (76×36.5×121.9) LCT135-9V (85×40×143.9) LCT135H-9V (85×48×143.9)

*Dimensions shown for CSS, LCT and LCS series are with silicone cover attached.

CSS·CS series

Slim designed small type handheld enclosures
with built-in coin cell battery compartment.

Suitable for IoT device, Remote controller, Portable GPS,
Wireless key-fob, RFID tag, small device, and more.

4 different sizes with 10 color variations each are available.



● Built-in battery compartment



Black



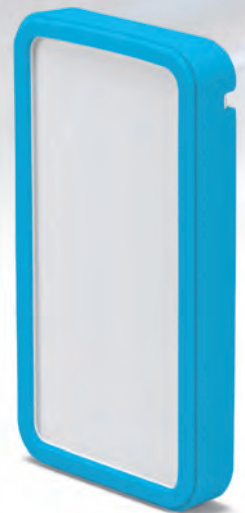
Light gray



Orange



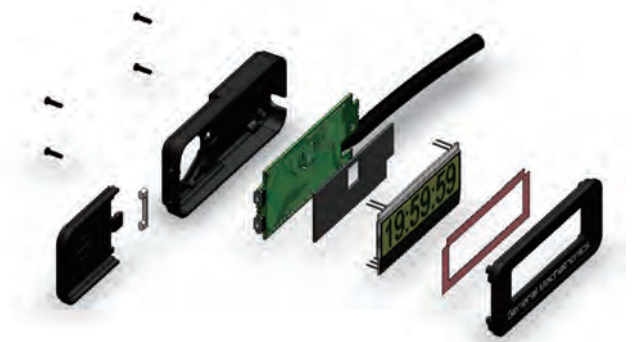
Green



Cyan

APPLICATION EXAMPLE

Motor Sport Infrared Laptimer (Bluetooth 4.0 & Android Application)



Bluetooth Temperature Data Logger



Impact Detection Sensor for Relay Tester



Wireless Remote Control Switch



Handi Quilter Easy-Set Tension™ Kit



Wireless Microphone for Hearing Aid



USB Noise Remover



High Frequency Preamplifier



Indoor Environment Sensor



Detection Sensor for Wandering Behavior



Serial EEPROM Programmers



RFID Reader



HoneyBee Proximity Switch



Restroom Monitoring System



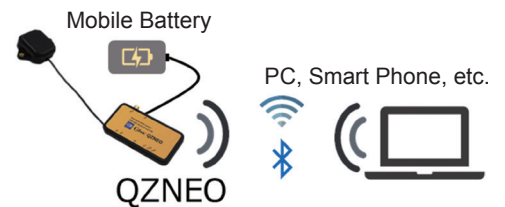
CO2 Meter



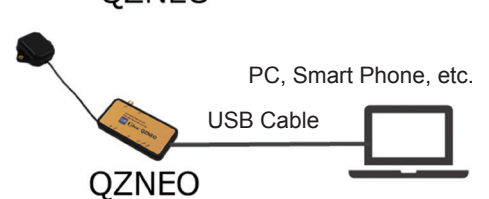
Dual-frequency GNSS Receiver



Wireless Connection



Wired Connection





- Small plastic case with silicone cover. Strong against drop impact while providing a secure grip.
- Select proper models by enclosure dimensions and capacity of the batteries.
Typical Capacity : CR2032 : 225mAh / CR2450 : 620mAh / CR2477 : 1000mAh
- Suitable for remote controller, wireless key fob, small tester/device and more.
- Available in 4 sizes with 16 models and selectable in 10 different color combinations.
- 2 types of silicone cover available with (Open) and without (Closed) rectangular cutout on the top side.

Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C

No battery compartment type



Battery compartment type


Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB	White • Black
2	Bottom cover	1	ABS UL94HB	White • Black
3	Battery cover	1	ABS UL94HB	White • Black
4	Battery contact	1 set / 2 sets (CSS115)	Stainless steel SUS304	Nickel plated
5	Silicone cover	1	Silicone	Orange • Green • Cyan • Light gray • Black
6	Self-tapping screw	4	Steel M1.6-6	Nickel plated • Black trivalent chromate

Accessories (Optional parts)


Exclusive PCB CSPB series
See page 22



Strap STPS series
See page 34



PCB mounting screw EM-1.6
See page 398



TORX screw MR1.6-6S
See page 398

Silicone Cover Type

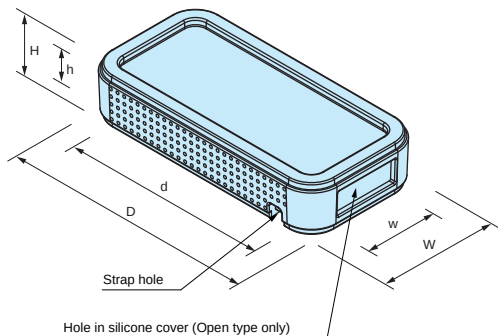
Code	CL Closed	OP Open
Shape		

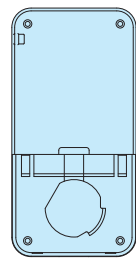
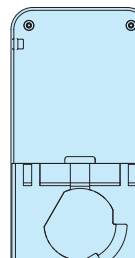
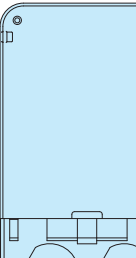
Color Type

Code	B O Black / Orange	B G Black / Green	B C Black / Cyan	B L Black / Light gray	B B Black / Black
Color					
Code	W O White / Orange	W G White / Green	W C White / Cyan	W L White / Light gray	W B White / Black
Color					

CSS dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Type	CSS N Type	CSS75/90	CSS100 ^{*1}	CSS115
Battery compartment	None	CR2032 × 1	CR2450 × 1 or CR2477 ^{*2} × 1	CR2032 × 2
				

^{*1} CSS100 battery type varies by PCB placement: CR2450 with PCB on bottom cover, or CR2477 with PCB on top cover. See page 20 for the details.

^{*2} Not compatible with Renata CR2477N battery.

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions			Battery compartment	Weight (g)
	W	H	D	w	h	d		
CSS 75N -CL -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	59	None	24
CSS 75N -OP -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	59	None	24
CSS 75 -CL -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	25.4	CR2032×1	25
CSS 75 -OP -□□	38.6 (35)	15.5 (12)	78.6 (75)	26.6	5.3	25.4	CR2032×1	25
CSS 90N -CL -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	74	None	36
CSS 90N -OP -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	74	None	35
CSS 90 -CL -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	40.4	CR2032×1	38
CSS 90 -OP -□□	48.6 (45)	15.5 (12)	93.6 (90)	36.6	5.3	40.4	CR2032×1	37
CSS100N -CL -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	41.6	10.1	82	None	52
CSS100N -OP -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	41.6	10.1	82	None	51
CSS100 -CL -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	44.1	6.8	46	CR2450×1 / CR2477×1	54
CSS100 -OP -□□	54.1 (50)	20.8 (16.8)	104.1 (100)	44.1	6.8	46	CR2450×1 / CR2477×1	53
CSS115N -CL -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	98	None	62
CSS115N -OP -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	98	None	61
CSS115 -CL -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	64.9	CR2032×2	65
CSS115 -OP -□□	67.1 (63)	16 (12)	119.1 (115)	54.6	5.3	64.9	CR2032×2	64

■ () value = enclosure dimension.

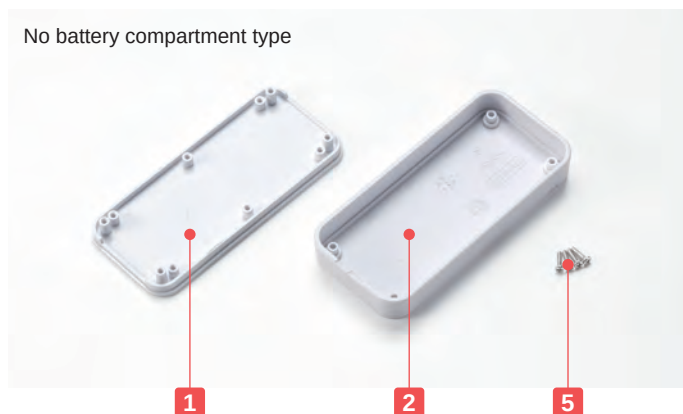


- Easy replacement of batteries. Battery contact included in each case (except for N type).
- Select proper models by enclosure dimensions and capacity of the batteries.
Typical Capacity : CR2032 : 225mAh / CR2450 : 620mAh / CR2477 : 1000mAh
- Suitable for remote controller, wireless key fob, or small tester/device, and more.
- Available in 4 sizes with 8 models and selectable in 2 different color types (Black or White).

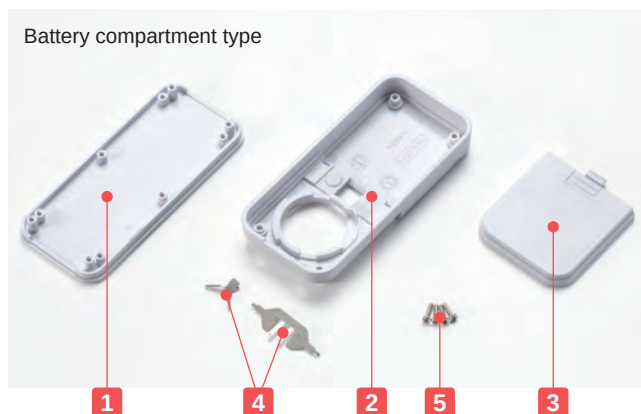
Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C

No battery compartment type



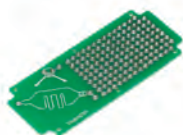
Battery compartment type



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB	White • Black
2	Bottom cover	1	ABS UL94HB	White • Black
3	Battery cover	1	ABS UL94HB	White • Black
4	Battery contact	1 set / 2 sets (CS115)	Stainless steel SUS304	Nickel plated
5	Self-tapping screw	4	Steel M1.6-6	Nickel plated • Black trivalent chromate

Accessories (Optional parts)



Exclusive PCB CSPB series
See page 22



Strap STPS series
See page 34



PCB mounting screw EM-1.6
See page 398



TORX screw MR1.6-6S
See page 398



Neodymium magnet
NMG series
See page 392

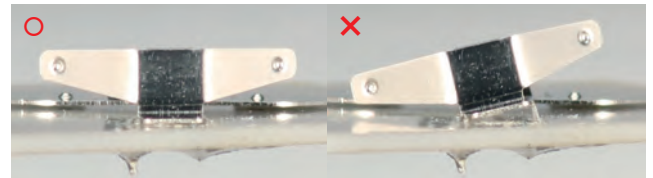
Coin Battery Contact Installation Steps



- Exclusive PCB is available as an optional part. See page 22 for more details. Refer to drawings on page 22 for suitable PCB dimensions and screw hole layout.
- Battery contact parts are sold separately in case of damage or loss. See our website (CST series) for details.

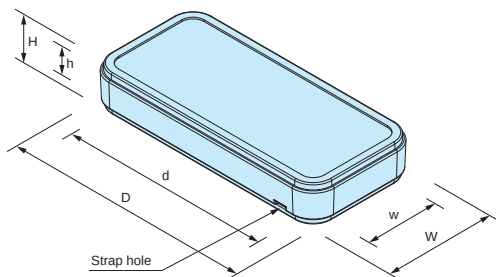
CAUTION

- When installing the battery terminal, make sure that it is parallel to the PCB. The battery may become stuck if installed at an angle. In addition, when mounting PCB, use a 1mm PCB. Please note batteries cannot be used with PCB thicker than 1mm.



CS dimensions

- DXF/DWG/PDF/STP drawings available on our website.

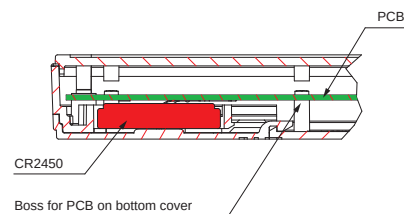


Type	CS N Type	CS75/90	CS100 ^{*1}	CS115
Battery compartment	None	CR2032 × 1	CR2450 × 1 or CR2477 ^{*2} × 1	CR2032 × 2

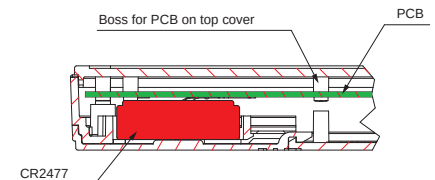
^{*1} CS100 battery type varies by PCB placement: CR2450 with PCB on bottom cover, or CR2477 with PCB on top cover. See below for the details.

^{*2} Not compatible with Renata CR2477N battery.

CR2450 × 1 on CS100 (PCB on bottom cover)



CR2477 × 1 on CS100 (PCB on top cover)



^{*Not compatible with Renata CR2477N battery}

Product no. / Details

Product no.		External dimensions			Internal dimensions			Battery compartment	Weight (g)
● Black	● White	W	H	D	w	h	d		
CS 75N-B	CS 75N-W	35	12	75	26.6	5.3	59	None	12
CS 75 -B	CS 75 -W	35	12	75	26.6	5.3	25.4	CR2032×1	13
CS 90N-B	CS 90N-W	45	12	90	36.6	5.3	74	None	18
CS 90 -B	CS 90 -W	45	12	90	36.6	5.3	40.4	CR2032×1	20
CS100N-B	CS100N-W	50	16.8	100	41.6	10.1	82	None	24
CS100 -B	CS100 -W	50	16.8	100	44.1	6.8	46	CR2450×1 / CR2477×1	26
CS115N-B	CS115N-W	63	12	115	54.6	5.3	98	None	30
CS115 -B	CS115 -W	63	12	115	54.6	5.3	64.9	CR2032×2	33

CSSC series

SILICONE COVER for CS

Silicone Cover Type

Code	CL Closed	OP Open
Shape		

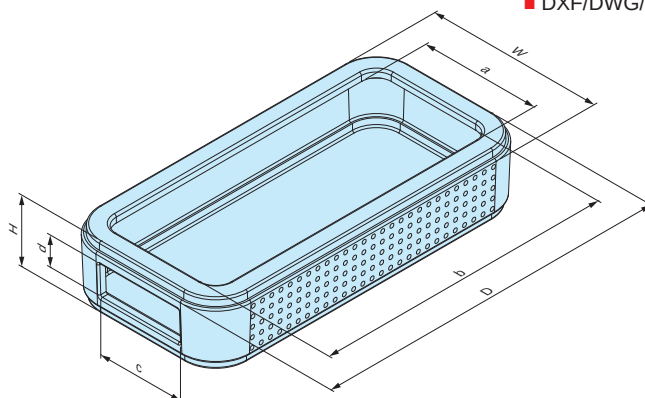
- 2 types of silicone cover which have with (Open) and without (Closed) rectangular cutout on the front side; selectable in 5 different colors.

Color Type

Code	Orange	Green	Cyan	Light gray	Black
Color					

CSSC dimensions

- DXF/DWG/PDF drawings available on our website.



Components

Part name	Material	Color
Silicone cover	Silicone	Orange • Green • Cyan • Light gray • Black

Product no. / Details

- Please suffix color code at the end of the product number.

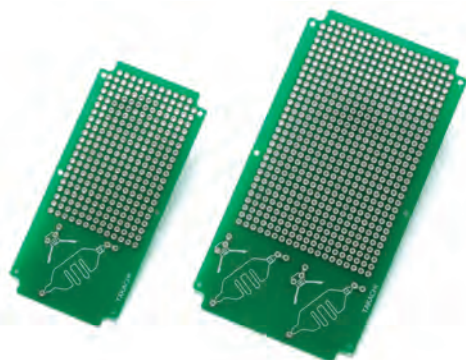
Product no.	W	H	D	a	b	c	d	Suitable models	Weight (g)
CSSC 75-CL-□	38.6	15.5	78.6	28.4	68.4	—	—	CS 75	12
CSSC 75-OP-□	38.6	15.5	78.6	28.4	68.4	20	7.4	CS 75	12
CSSC 90-CL-□	48.6	15.5	93.6	37.4	82.4	—	—	CS 90	18
CSSC 90-OP-□	48.6	15.5	93.6	37.4	82.4	30	7.4	CS 90	17
CSSC100-CL-□	54.1	20.8	104.1	42.4	92.4	—	—	CS100	28
CSSC100-OP-□	54.1	20.8	104.1	42.4	92.4	33	12.2	CS100	27
CSSC115-CL-□	67.1	16	119.1	55.4	107.4	—	—	CS115	32
CSSC115-OP-□	67.1	16	119.1	55.4	107.4	45	7.4	CS115	31

- Custom color is available from just 1 pc. For 500 pcs or more, manufacture costs will be similar to a standard color. Please inquire for more details. For custom color order, please specify **PANTONE®** color code.



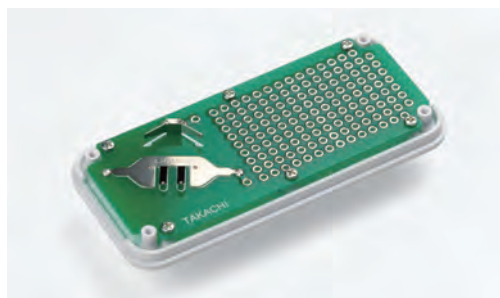
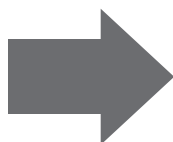
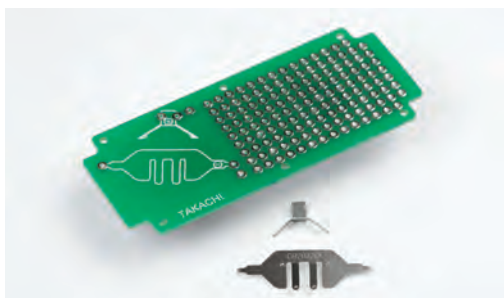
CSPB series

EXCLUSIVE PCB for CS • CSS



- Exclusive PCB for CS and CSS series.
- Glass epoxy board (FR-4), through-hole on both sides and 2.54mm hole distance.
- Prefabricated holes for battery contact use with CS • CSS case. The contact directions are printed on the PCB.

Soldering the battery contacts (included with each case) onto the PCB



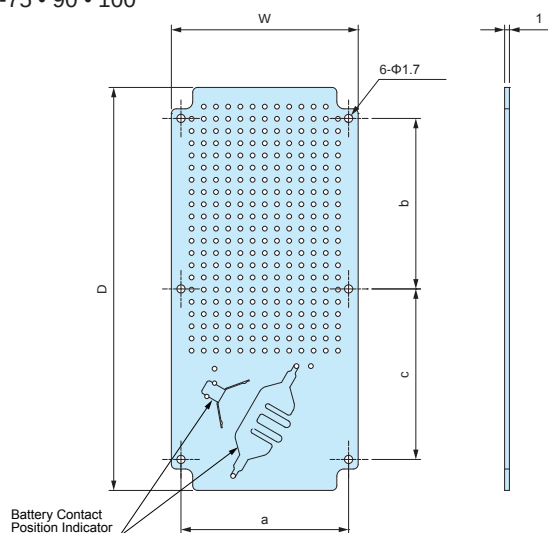
Components

Part name	Pcs	Material	Color / Finish
PCB	1	Glass epoxy (FR-4) t=1.0	Through-hole • Lead-free solder • Solder resist
Self-tapping screw	6	Steel M1.6	Trivalent chromate

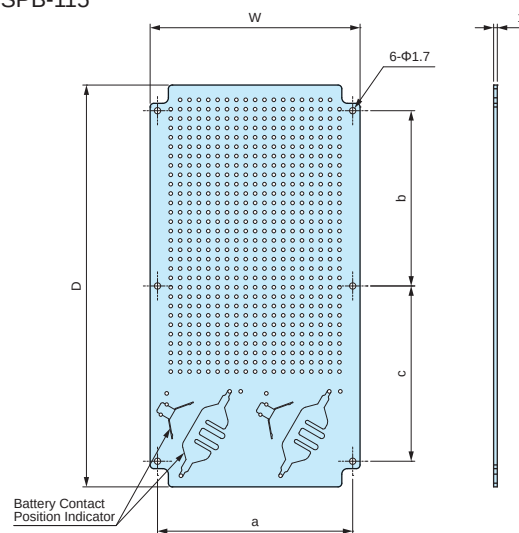
CSPB dimensions

■ DXF/DWG/PDF drawings available on our website.

CSPB-75 • 90 • 100



CSPB-115



Note : Holes (6-Φ1.7) for PCB mount bosses are un-soldered.

Product no. / Details

Product no.	W	D	a	b	c	Suitable models
CSPB- 75	28.9	68.9	24.9	28	28	CSS 75 • CS 75
CSPB- 90	38.9	83.9	34.9	35.5	35.5	CSS 90 • CS 90
CSPB-100	45	94	38	31	38	CSS100 • CS100
CSPB-115	56.9	108.9	52.9	47.5	47.5	CSS115 • CS115

PS series PORTABLE PLASTIC CASE

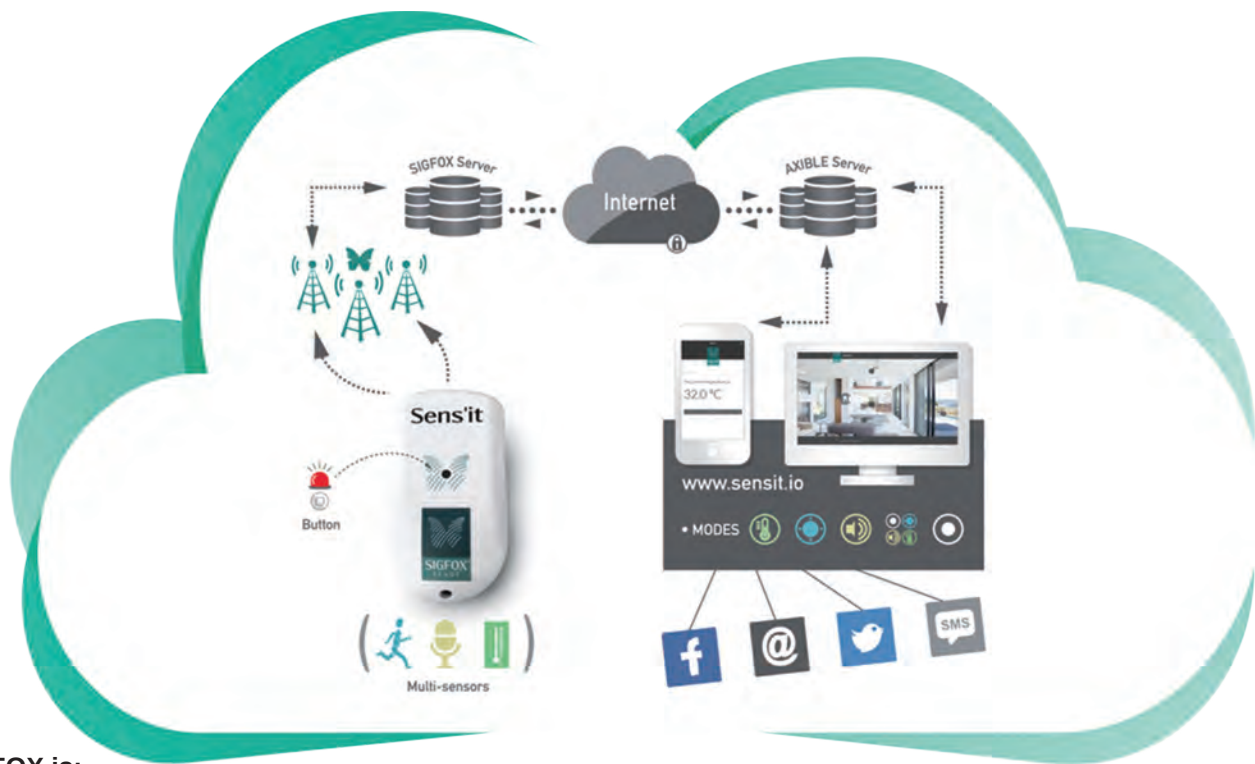
Suitable for wireless device, remote controller, key fob, and more.

Available in 4 different sizes with 4 selectable colors.

Portable SIGFOX Multi-Sensor System



Multi-sensor system which detects motion, temperature, humidity and sound. Warnings are sent to the owner, or 3rd parties via SMS, X (Twitter) or Facebook when events such as a home invasion, or when a fire occurs.



SIGFOX is:

A French company that builds wireless ultra-narrow band (UNB) networks, for the connection of low-energy consumption devices such as electricity meters, smart-watches, and washing machines, which needs to be continuously on and emitting small amounts of data. This wireless network technology, which is aimed at the Internet of Things (IoT), is starting to gain popularity and rolling out in the fields such as housing, automobiles, transportation and logistics, smart city connectivity, healthcare, and so on.

GPS Tracker Tag (via SIGFOX Network)



Example: Locating your car in a large parking area

APPLICATION EXAMPLE

Remote Controller for Undercover Investigation



Re-Mote Suite-IoT Development Platform



Beacon Receiver



GPS Tracker with Temperature Data Logger



Portable Radiation Detector



Remote Controller for Metal Sensor Reel



LPWA Receiver





Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C



- Simple snap-in case without screws.
- Comfortable shape and hold.
- 4 different colors are available for selection.
- Suitable for use as a wireless device, remote control, key fob etc.
- Designed with an easily accessible hole for strap attachment.

Components

No.	Part name	Material	Color / Finish
1	Rounded cover	ABS UL94HB	White • Black • Cobalt • Green
2	Flat cover	ABS UL94HB	White • Black • Cobalt • Green

Product no. / Details

Product no.				Dimensions			Weight (g)
● White	● Black	● Cobalt	● Green	W	H	D	
PS- 50W	PS- 50B	PS- 50C	PS- 50G	50	14	50	9
PS- 65W	PS- 65B	PS- 65C	PS- 65G	35	11	65	9
PS- 85W	PS- 85B	PS- 85C	PS- 85G	48	15	85	20
PS-100W	PS-100B	PS-100C	PS-100G	58	18	100	27

Accessories (Optional parts)



PCB mounting screw EM-1.6
See page 398



Strap STPS series
See page 34

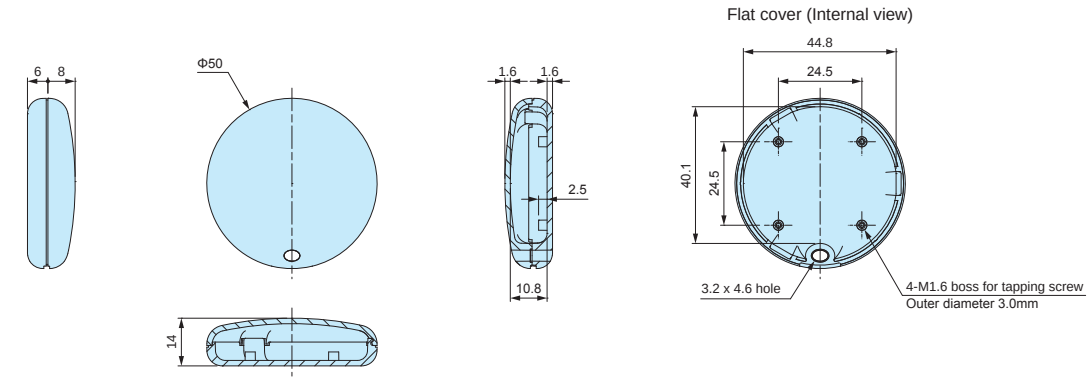


Neodymium magnet NMG series
See page 392

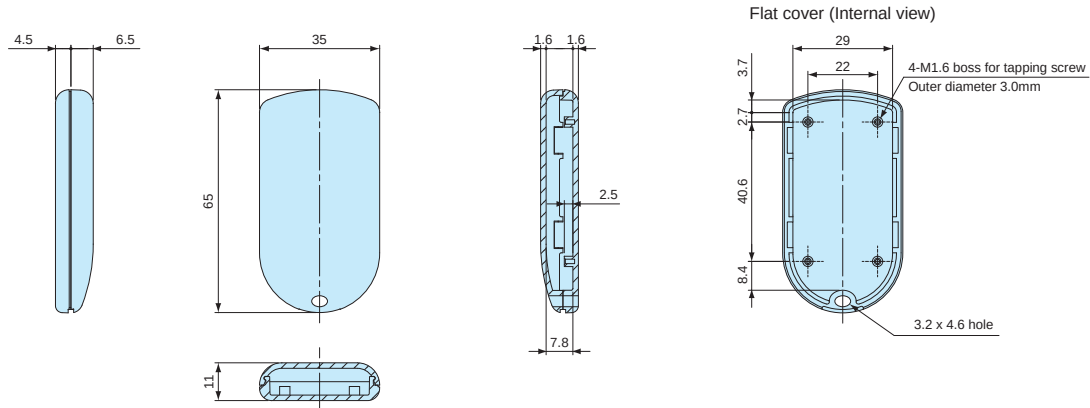
PS dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

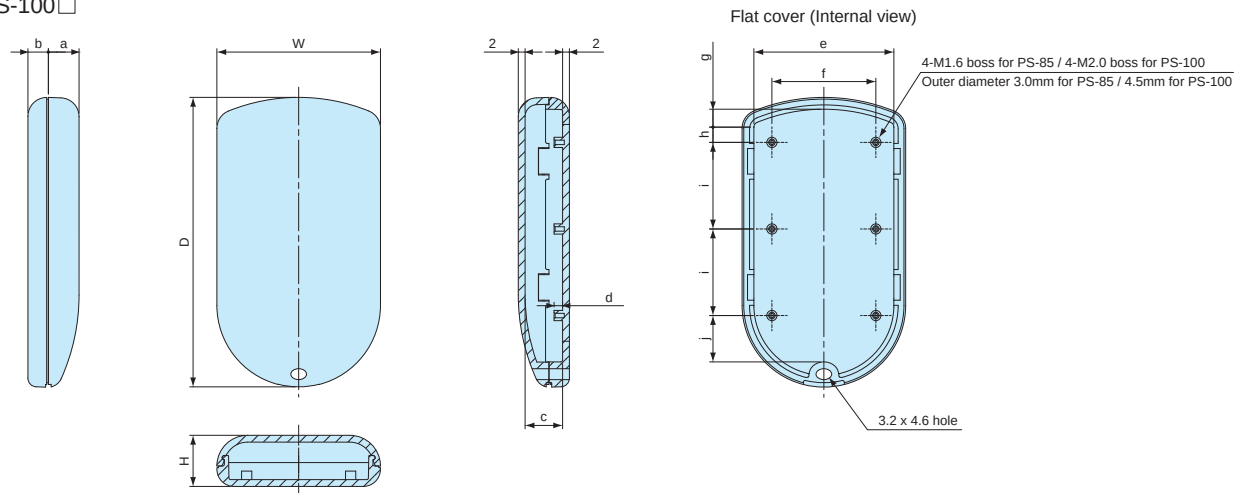
PS-50□



PS-65□

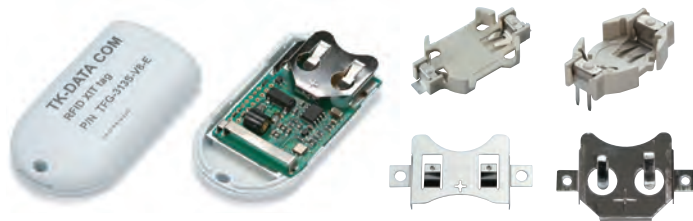


PS-85□ / PS-100□



Product no.	W	H	D	a	b	c	d	e	f	g	h	i	j
PS- 85□	48	15	85	9	6	11	2.5	41.1	33	5.3	4.5	25.4	13.6
PS-100□	58	18	100	11.5	6.5	14	4	51.2	40	6.4	4.2	29	20.4

Accessories (Optional parts) - coin cell battery holders



- Various coin cell battery holders can be utilized.
See coin cell battery holders on our website for more details.
Refer to the chart for compatible holders.
- Chart on the right is based upon mounting onto a 1.0mm thick PCB.
- Please note that depending on the mounting location, PCB may not be able to be properly affixed on.

COMPATIBLE COIN CELL BATTERY HOLDERS CHART

Product no.	Compatible coin cell battery holders
PS- 50□	SMTU1220(G) / 1225 / 1632(G) / 2-2016 / 2032(G) PB621 / SMTM1632 / 2032 BK-879 / 5067 / 888
PS- 65□	BK-879 / 5091 / 5067 / 888 PB621 / SMTM1225 / 1632 / 2032
PS- 85□	PB621 / SMTM1632 / 2032 BK-879 / 5091 / 5067 / 888 SMTU1220(G) / 1225 / 1632(G) / 2-2016 / 2032(G) / 2430
PS-100□	PB621 / SMTM1632 / 2032 BK-879 / 5091 / 5067 / 888 SMTU1220(G) / 1225 / 1632(G) / 2-2016 / 2032(G) / 2430 / 2450 BCR20H4 / BCR20H5

IP67 PORTABLE CASE WC series



● The protection rating against dust and water which applies to the enclosure used for electrical equipment, represented with a code based on the IEC60529 standard.

IP6x : No ingress of dust; complete protection against contact (dust tight)
IPx7 : No ingress of water when submerged up to a depth of 1 m for 30 min

High waterproof performance with both TPE and silicone gasket

ABS and TPE double-shot molded top & bottom covers allow for a good waterproof seal.
 The durable silicone gasket maintains the battery lid seal.
 Insert nut and screw help to maintain the waterproofing performance of the battery compartment even after repeated opening/closing.

Great protection by TPE sides

Side grips of TPE material provide a comfortable grip and protection against drop impact.



Available in 3 different color combinations



APPLICATION EXAMPLE

Best for outdoor use as a remote control, RFID tag, compact GPS, wireless device, simplified measurement gadget and more.

Multi-function Infrared Remote Controller



Emergency Call Receiver / Transmitter



Long Range Keyfob Remote Controller



GPS Vehicle Tracker



Custom embossed or standard overlay sheets with low initial costs are available

Waterproof performance may be lost by drilling/milling holes or cut-outs for buttons or switches on waterproof enclosures. Use an IP rated overlay sheet, or membrane keypad in order to allow the milled area to remain waterproof.



- Advantage 1** Reduce initial cost with digital inkjet printing.
- Advantage 2** Reduce initial tooling cost for cutting die with digital cutting plotter.
- Advantage 3** Reduce initial tooling cost for embossing with in-house mold processing.
- Advantage 4** Shorter lead-time made possible by having all production be in-house.

*applicable to small quantity orders



- Double shot injection molded TPE Grip and ABS Body.
- New CR2450/CR2477 battery compartment model added. Case with a CR2032 coin battery, 2x AAA battery compartment and no battery types are also available.
- TPE side grip provides not only a comfortable grip, but also protects from drop impact.
- Suitable to be used as a remote controller, key fob, wireless device, RFID tag, and so on.
- See page 31 for coin battery contact installation steps.

Technical Data

Protection class : IP67
 Operating temperature : -10°C ~ +50°C
 Recommended torque :
 WC72 • 90 • 100 : 0.06 ~ 0.08N • m
 WC105 : 0.13 ~ 0.15N • m

WC72-□, WC90-□, WC100-20



WC105-28

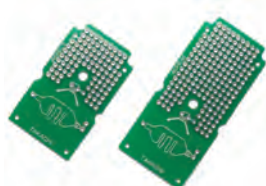


Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB : Elastomer	Black & Black • Black & Marine • White & Light gray
2	Bottom cover	1	ABS UL94HB : Elastomer	Black & Black • Black & Marine • White & Light gray
3	Battery lid*	1	ABS UL94HB	Black • White
4	Battery contact*	1 set	WC72 • WC90 • WC100 : Stainless steel SUS304 WC105 : Brass • Hard steel wire	Nickel plated
5	O-ring*	1	Silicone	Black
6	Screw	7	Stainless steel SUS304	Unfinished

*Not applicable to the N (no battery compartment type) models.

Accessories (Optional parts)



Exclusive PCB WCPB series
See page 33



Strap STPS series
See page 34



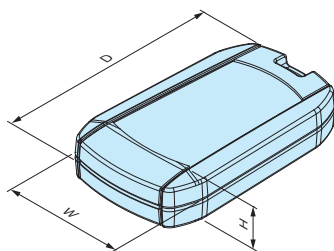
PCB mounting screw EM-1.6
See page 398



Neodymium magnet NMG series
See page 392

WC dimensions

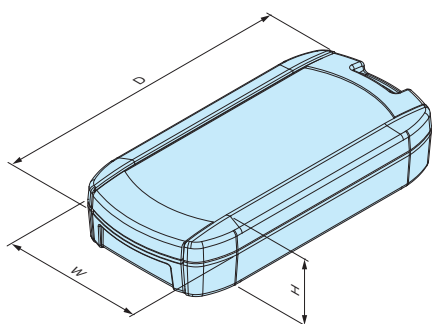
WC72-□, WC90-□



Battery Compartment Types

Type	N	C	R	F2
	None	CR2032 × 1	CR2450 / 2477 × 1	AAA × 2
Battery Compartment				

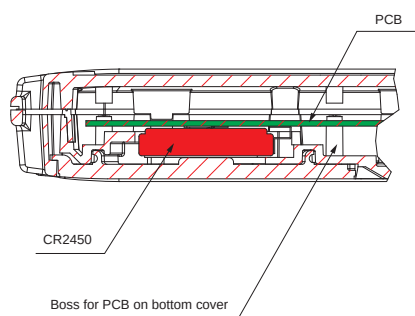
WC100-20, WC105-28



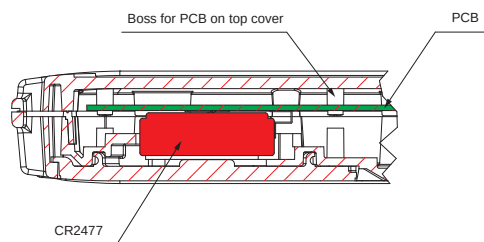
Color Type

Code	B B	B M	W L
Body	Black	Black	White
Grip	Black	Marine	Light gray
Color			

CR2450 × 1 on WC100-20-R -□□ (PCB on bottom cover)



CR2477 × 1 on WC100-20-R -□□ (PCB on top cover)



*Not compatible with Renata CR2477N battery

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	Battery Compartment	Weight (g)
WC 72-15-N -□□	43	15.5	72	None	18.5
WC 72-15-C -□□	43	15.5	72	CR2032	22
WC 72-21-N -□□	43	21.5	72	None	22
WC 72-21-C -□□	43	21.5	72	CR2032	25.5
WC 90-15-N -□□	44.2	15.7	90	None	23
WC 90-15-C -□□	44.2	15.7	90	CR2032	26.5
WC 90-21-N -□□	44.2	21.7	90	None	27
NEW WC100-20-N -□□	49	20.5	100	None	35
NEW WC100-20-R -□□	49	20.5	100	CR2450×1 / CR2477×1	40
WC105-28-N -□□	50.5	28.2	105	None	47
WC105-28-F2-□□	50.5	28.2	105	AAA × 2	58.5

Coin Battery Contact Installation Steps



Solder the contacts onto the PCB. Install the PCB on the top or bottom cover.

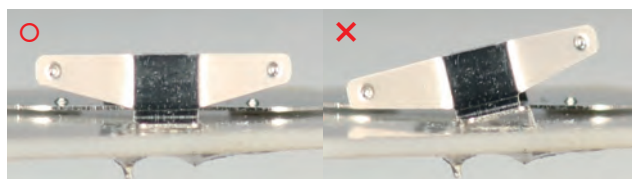
All set!



■ Battery direction is incised on the inner side of the battery lid.

CAUTION

- When installing the battery terminal, make sure that it is parallel to the PCB. The battery may become stuck if installed at an angle. In addition, when mounting PCB, use a 1mm PCB. Please note batteries cannot be used with PCB thicker than 1mm.



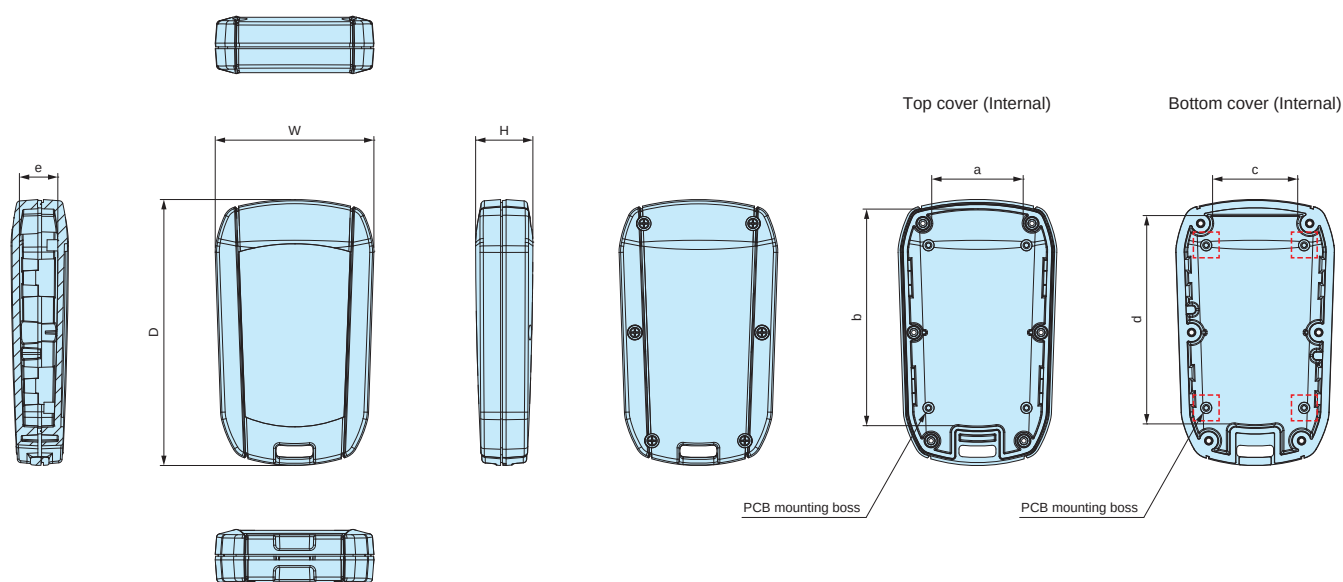
WC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

WC72-15-N / WC72-21-N
WC90-15-N / WC90-21-N
WC100-20-N / WC105-28-N

*WC72-15-N and WC90-15-N have no bosses for PCB on bottom cover.

*WC100-20-N and WC105-28-N have different design from shown in the figure.



Product no.	W	H	D	a	b	c	d	e
WC 72-15-N-□□	43	15.5	72	24.7	58.6	23.6	58.4	10.4
WC 72-21-N-□□	43	21.5	72	24.7	58.6	23	56.3	16.3
WC 90-15-N-□□	44.2	15.7	90	26.1	76.6	25	76.4	10.4
WC 90-21-N-□□	44.2	21.7	90	26.1	76.6	24.4	74.3	16.4
WC100-20-N-□□	49	20.5	100	29	84.4	27.7	81.6	14.5
WC105-28-N-□□	50.5	28.2	105	26.4	87.9	24.2	84.1	22.4

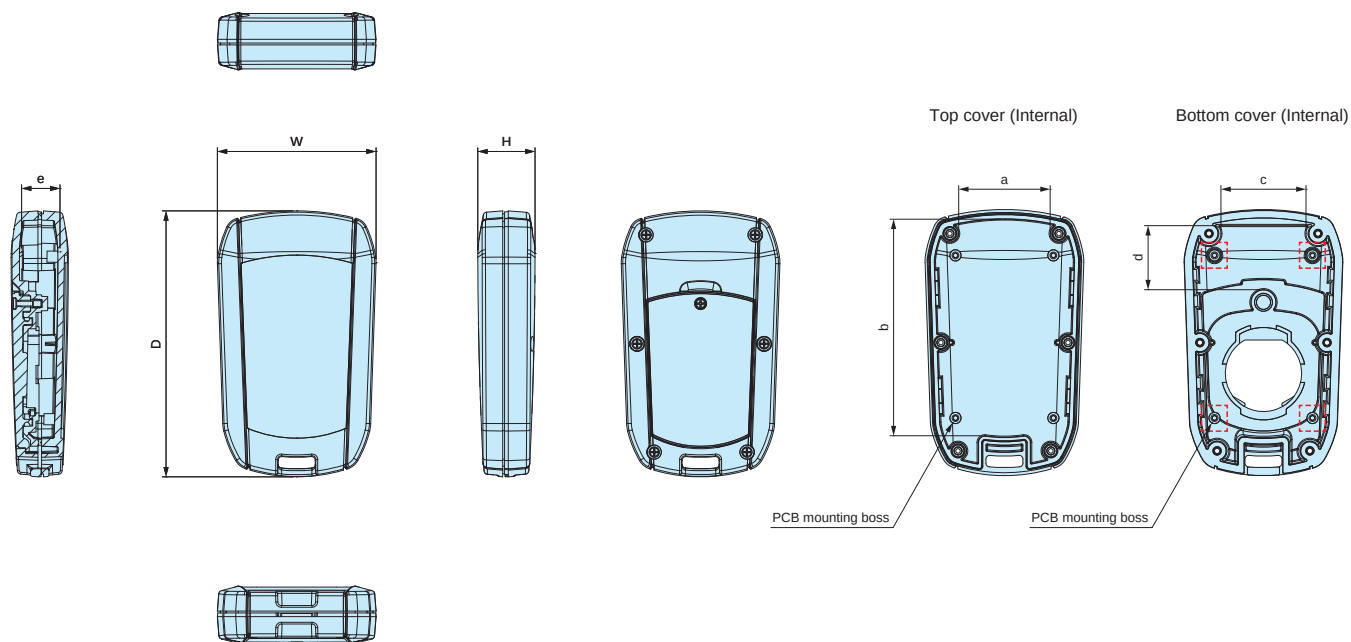
WC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

WC72-15-C / WC72-21-C
WC90-15-C / WC100-20-R

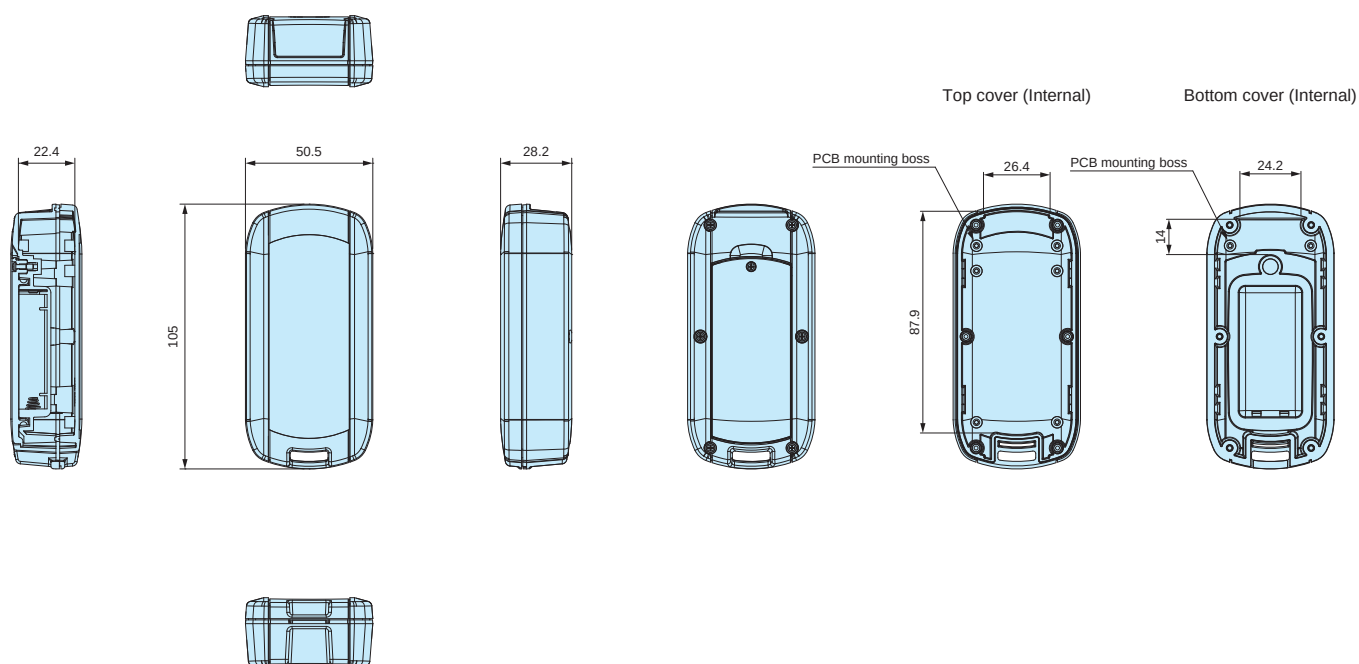
*WC72-21-C and WC100-20-R have bosses for PCB on bottom cover.

*WC100-20-R has different design from shown in the figure.



Product no.	W	H	D	a	b	c	d	e
WC 72-15-C-□□	43	15.5	72	24.7	58.6	23.8	19	10.4
WC 72-21-C-□□	43	21.5	72	24.7	58.6	23	17.3	16.3
WC 90-15-C-□□	44.2	15.7	90	26.1	76.6	25	36.9	10.4
WC100-20-R-□□	49	20.5	100	29	84.4	27.7	31.3	14.5

WC105-28-F2-□□



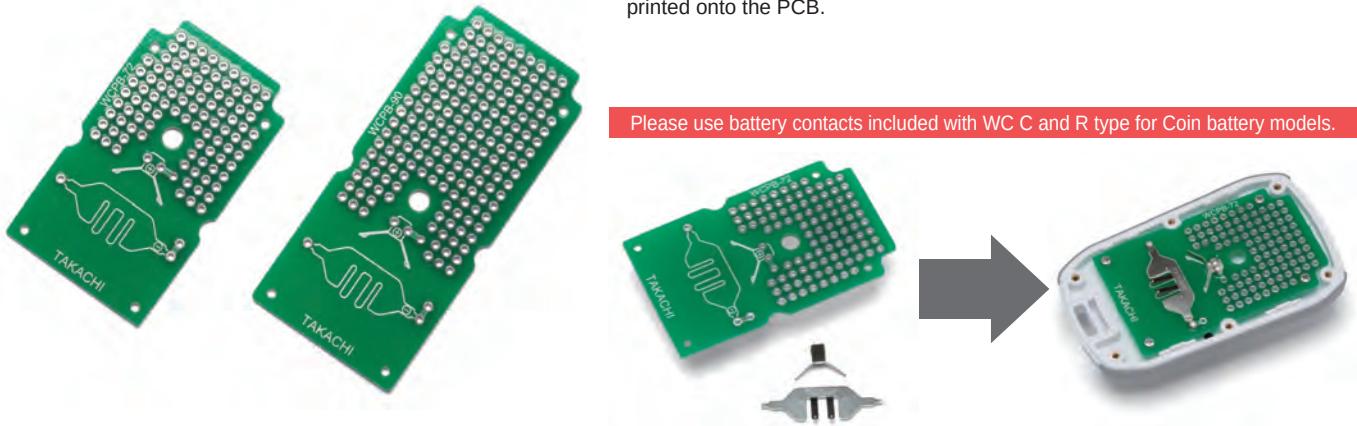


WCPB series

EXCLUSIVE PCB for WC

- Exclusive PCB for WC C and R type for Coin battery models.
- Glass epoxy board (FR-4), through-holes on both sides, 2.54mm hold pitch.
- Designed with a battery contact hole. Battery contact position and direction are printed onto the PCB.

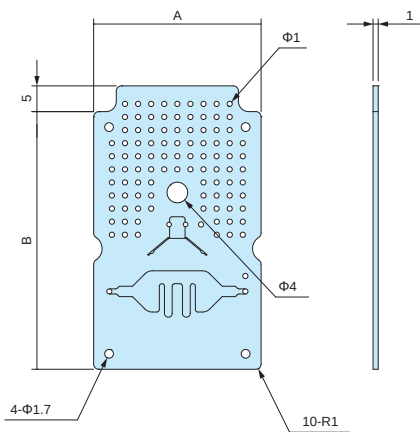
Please use battery contacts included with WC C and R type for Coin battery models.



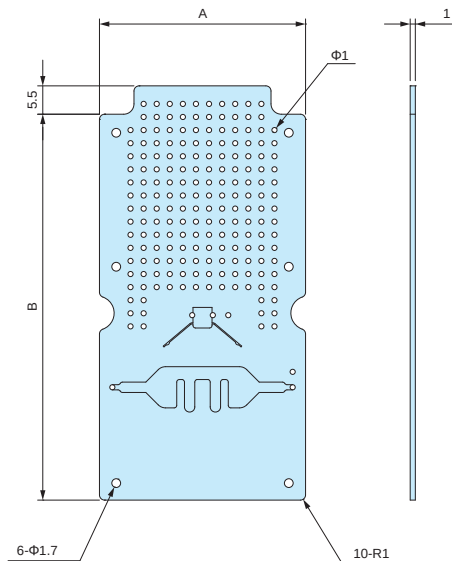
WCPB dimensions

- DXF/DWG/PDF/STP drawings available on our website.

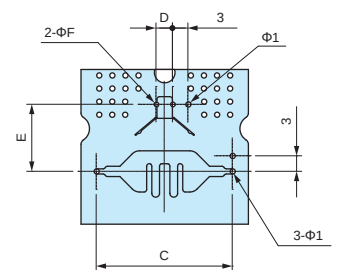
WCPB-72 / WCPB-90



WCPB-100



Battery contact position details



Note : Holes (4-Φ1.7) for PCB mounting bosses are un-soldered.

Components

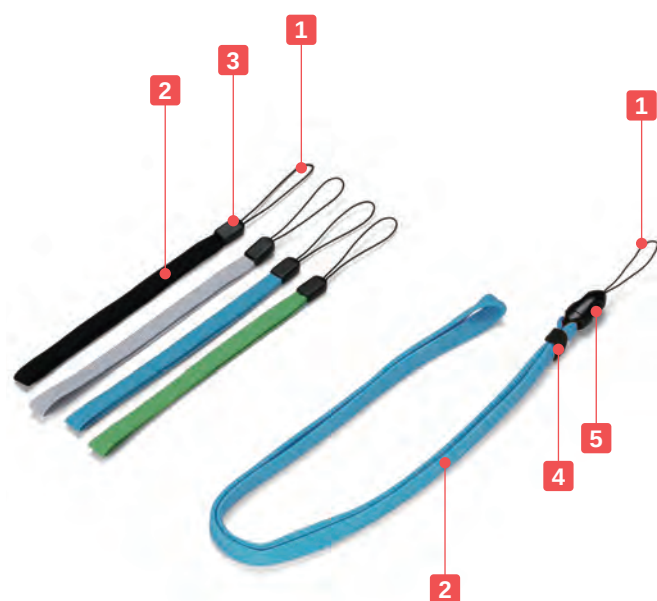
Part name	Pcs	Material	Color / Finish
PCB	1	Glass epoxy (FR-4) t=1.0	Through-hole • Lead-free solder resist
Screw	4 or 6	Steel (Tapping M1.6-4)	Steel (Tapping M1.6-4)

Product no. / Details

Product no.	A	B	C	D	E	F	Screw pcs	Suitable models
WCPB- 72	32.5	49.8	26.4	3.2	13	0.9	4	WC72-15-C • WC72-21-C
WCPB- 90	32.9	68	26.4	3.2	13	0.9	4	WC90-15-C
NEW WCPB-100	40	74.9	35	4	14	1	6	WC100-20-R

STPS series

STRAP



APPLICATION EXAMPLE

Wrist strap (STPS-140G)



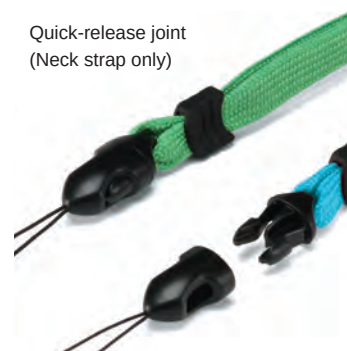
Neck strap (STPS-450C)



- Colorful and sturdy straps best used with CSS, CS, PS, and WC series.
- Wrist and Neck straps are available in 4 unique colors.
- Neck strap comes with a quick-release joint, making removal and attachment quick and easy.

Color Type

Code	G Green	C Cyan	L Light gray	B Black
Color				

Quick-release joint
(Neck strap only)

Components

No.	Part name	Material	Color
1	String	Polyester	Black
2	Strap	Polyester	Green • Cyan • Light gray • Black
3	Cap (wrist strap only)	ABS	Black
4	Clamp (neck strap only)	Elastomer	Black
5	Joint (neck strap only)	Polyacetal	Black

Product no. / Details

Product no.				Strap width	Strap length
● Green	● Cyan	● Light gray	● Black		
STPS-140G	STPS-140C	STPS-140L	STPS-140B	8	140
STPS-450G	STPS-450C	STPS-450L	STPS-450B	10	450

WH series

IP67 WATERPROOF HAND-HELD ENCLOSURE



● The protection rating against dust and water which applies to the enclosure used for electrical equipment, represented with a code based on the IEC60529 standard.

IP6x : No ingress of dust; complete protection against contact (dust tight)

IPx7 : No ingress of water when submerged up to a depth of 1 m for 30 min

High waterproof performance with a silicone gasket

High elasticity and good durability for maintaining waterproofing capability.
Built-in insert nut use for great long lasting water protection even after frequent opening and closing. Battery compartment is also waterproofed.
Various battery compartment types are available, ranging from AAA x2 to AA x6.

Side grip provides great protection

Elastic TPE grips provide a more secured hold.
Side grips are designed to be on the sides and corners of the enclosure to minimize drop impact.



Available in 10 different color combinations



Information on waterproofing overlay sheets



APPLICATION EXAMPLE

Ultrasonic Thickness Gauge



Note that waterproofing will be lost if a hole is made for button or switch on waterproof enclosures.
Please utilize a waterproof (IP67 rated equivalent) membrane keypad or switch, or overlay sheet for maintaining IP67.
See page Custom-11 and 12 for further details on digital printed overlay.



APPLICATION EXAMPLE

Suitable for industrial measuring instruments, transceivers, controllers, medical equipment and more.

Portable Signal Generator



Wireless CO₂ Microclimate Sensor



Wireless Food Probe Sensor



Wireless Temperature Detector



Sigfox Network Measurement Device



IoT Temperature Monitoring Sensor for HACCP



*See page 23 for further details on Sigfox.

Competition Time Measurement System



Portable Airflow Meter



Honey Bee Tracker



Digital X-ray System





Technical Data

Protection class : IP67
 Operating temperature : -10°C ~ +60°C
 Recommended torque:
 0.2N • m ~ 0.3N • m
 (2kgf • cm ~ 3kgf • cm)



- Stylish and elegantly designed with chamfered edge construction.
- IP67 protection class enclosure.
- Manufactured from flame-resistant ABS UL94V-0 material.
- 8 different internal compartment types are available: AAA x 2, AAA x 3, AAA x 4, AA x 2, AA x 3, AA x 4, AA x 6 and no battery type. Battery compartments have positive (+) / negative (-) pole mark to prevent incorrect insertion.
- The TPE side grips are available in 5 unique colors, and function as an anti-slip grip pad and drop impact protection.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Black
2	Bottom cover	1	ABS UL94V-0	Off-white • Black
3	Battery cover *	1	ABS UL94V-0	Off-white • Black
4	Gasket	1	Silicone	N • F2 • F3 • M4 type : Black
5	O-ring *	1	Silicone	M2 • M6 type : Blue M3 • F4 • type : Light gray
6	Side grip	2	TPE	Black • Light gray • Navy • Red • Yellow
7	Battery cover screw *	1	Stainless steel M2.5-8	Unfinished
8	Screw	6	Stainless steel M2.5-10	Unfinished
9	Battery contact *	1 set	Brass	Nickel plated

*Not applicable to the N (no battery compartment type) models.

Accessories (Optional parts)



PCB mounting screw EM-2.3
See page 398



Tapping standoff TPS series
See page 397



Cable gland
See page 181 ~ 193



Neodymium magnet NMG series
See page 392

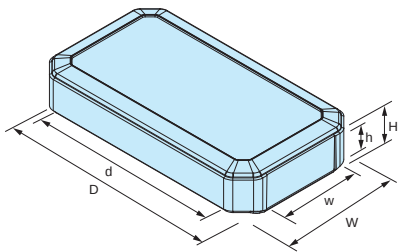
Battery Compartment Types

Type	N None	F2 AAA x 2	F3 AAA x 3	F4 AAA x 4	M2 AA x 2	M3 AA x 3	M4 AA x 4	M6 AA x 6
Battery Compartment								

Color Type

Code	[B][B] Black / Black	[B][L] Black / Light gray	[B][N] Black / Navy	[B][R] Black / Red	[B][Y] Black / Yellow
Color					
Code	[W][B] Off-white / Black	[W][L] Off-white / Light gray	[W][N] Off-white / Navy	[W][R] Off-white / Red	[W][Y] Off-white / Yellow
Color					

WH dimensions



Product no. / Details

Product no.	External dimensions			Internal dimensions			Battery compartment	Weight (g)
	W	H	D	w	h	d		
WH125-20-N -□□	79	20	126	39	9	107.7	None	101.0
WH125-20-F2 -□□	79	20	126	60	9	46.4	AAA x 2	102.0
WH125-20-F3 -□□	79	20	126	60	9	35.9	AAA x 3	109.0
WH125-28-N -□□	79	28	126	39	17	106.3	None	119.0
WH125-28-F2 -□□	79	28	126	60	17	46.4	AAA x 2	121.0
WH125-28-F3 -□□	79	28	126	60	17	35.9	AAA x 3	127.0
WH145-20-N -□□	88	20	146	45	8	129.6	None	125.5
WH145-20-F4 -□□	88	20	146	69.4	8	36.5	AAA x 4	129.5
WH145-25-N -□□	88	25	146	45	13	129.6	None	137.5
WH145-25-M2 -□□	88	25	146	69.2	13	51.5	AA x 2	161.5
WH145-25-M3 -□□	88	25	146	69.2	13	36.5	AA x 3	159.5
WH145-33-N -□□	88	33	146	45	21	129.6	None	162.0
WH145-33-M2 -□□	88	33	146	69.2	21	51.5	AA x 2	180.5
WH145-33-M3 -□□	88	33	146	69.2	21	36.5	AA x 3	181.5
WH170-25-N -□□	95	25	171	51	13	154.4	None	169.0
WH170-25-M4 -□□	95	25	171	73.2	13	54.8	AA x 4	195.0
WH170-33-N -□□	95	33	171	50.9	21	150.7	None	191.0
WH170-33-M4 -□□	95	33	171	73.2	21	54.8	AA x 4	220.0
WH190-25-N -□□	126	25	191	81	13	170.3	None	226.0
WH190-25-M6 -□□	126	25	191	107.6	13	72.6	AA x 6	276.0
WH190-33-N -□□	126	33	191	81	21	170.3	None	252.0
WH190-33-M6 -□□	126	33	191	107	21	72.3	AA x 6	307.0

■ DXF/DWG/PDF/STP drawings available on our website.

LCT•LCS•LC•LCE HAND-HELD PLASTIC CASE

Hand-held case suitable for industrial measuring equipment, wireless communication devices and medical equipment.

9 different sizes with 8 different battery compartment types line-up available.

Consisting of a line-up of 4 different series: LC - plastic case, LCT - case with shockproof silicone cover, LCS - case with silicone cover, and LCE - EMC shielded plastic case.

LCT Plastic Case with Shockproof Silicone Cover - 4 Rugged Shockproof Silicone Cover Colors



LCS Plastic Case with Silicone Cover - 5 Silicone Cover Colors



CUSTOMIZATION



Machining



Custom cut on silicone cover



Custom color, custom shaped silicone cover



Digital printed overlay



APPLICATION EXAMPLE

Metal Coating Thickness Gauge



Solar Panel Trouble Checker



Solar Cell Connection Checker



Digital Pressure Gauge Setter



Fluorescent Portable Dissolved Oxygen Meter



Distribution Transformer Tester



Network Partial Discharge Checker



Radiation Survey Meter



Mini Radiation Survey Meter



Wireless Voltage Probe



Portable Anemometer



Ultrasonic Thickness Gauge



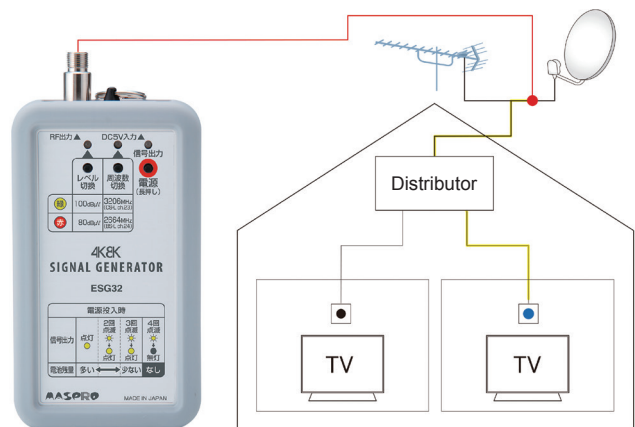
Hyperhidrosis Treatment Device



RF Scope



Satellite Broadcasting Signal Generator



Onboard Programmer



Code Debugger





Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C

- Plastic case with shockproof silicone cover. Protects the device from various impact.
- Manufactured with flame-resistant ABS UL94V-0 material. Selectable from a range of battery compartment types.
- Positive (+) / Negative (-) pole marks are incised on the inside of the battery compartments.
- Suitable for measuring instruments, test devices, wireless communication devices, medical devices and more.

Battery compartment type



No battery compartment type



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Dark gray
2	Bottom cover	1	ABS UL94V-0	Off-white • Dark gray
3	Panel	1	ABS UL94V-0	Off-white • Dark gray
4	Self-tapping screw	4	Steel M2.6	Nickel plated • Black trivalent chromate
5	Battery cover	1	ABS UL94V-0	Off-white • Dark gray
6	Battery contact	1 set	Brass	Nickel plated
	Battery snap • Cushion sponge (only for 9V models)	1 set	Brass : PVC • Polyurethane foam (UL94HF-1)	Nickel plated • Black
7	Silicone cover	1	Silicone	Orange • Green • Navy • Dark gray

Accessories (Optional parts)



Tapping standoff TPS series
See page 397



PCB mounting screw EM-2.3
See page 398



TORX screw MR series
See page 398



Key ring CR-20
See page 389



Strap STP series
See page 389

Battery Compartment Type

Type	N None	F2 AAA x 2	F3 AAA x 3	F4 AAA x 4	F6 AAA x 6	M2 AA x 2	M3 AA x 3	M4 AA x 4	9V 9V x 1
Battery compartment									

Color Type

Code	D O Dark gray / Orange	D G Dark gray / Green	D N Dark gray / Navy	D D Dark gray / Dark gray
Color				
Code	W O Off-white / Orange	W G Off-white / Green	W N Off-white / Navy	W D Off-white / Dark gray
Color				

Product no. / Details

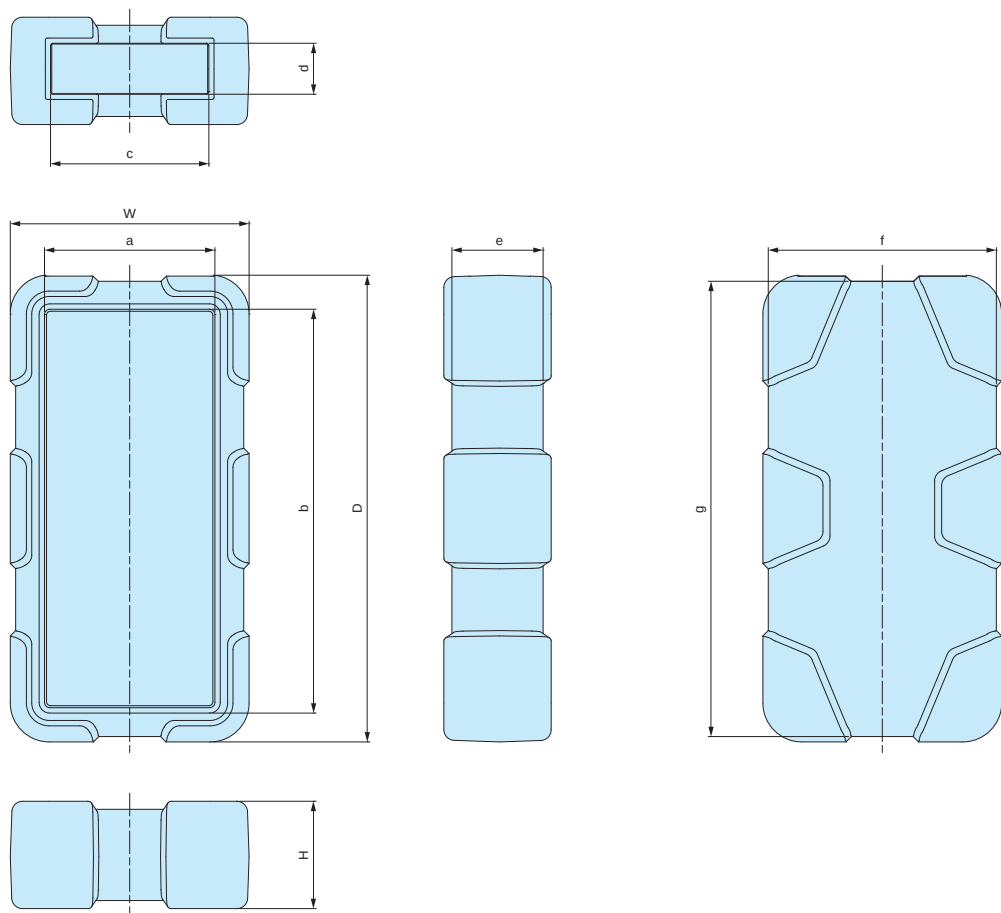
■ Please suffix color code at the end of the product number.

Product no.	W	H	D	Battery compartment	Weight (g)
LCT115 -N -□□	76(69)	28(19.5)	121.9(115)	None	123.5
LCT115 -F2 -□□	76(69)	28(19.5)	121.9(115)	AAA x 2	128
LCT115 -F3 -□□	76(69)	28(19.5)	121.9(115)	AAA x 3	130
LCT115H-N -□□	76(69)	36.5(28)	121.9(115)	None	141
LCT115H-F2 -□□	76(69)	36.5(28)	121.9(115)	AAA x 2	145.5
LCT115H-F3 -□□	76(69)	36.5(28)	121.9(115)	AAA x 3	147
LCT115H-M2-□□	76(69)	36.5(28)	121.9(115)	AA x 2	149.5
LCT115H-9V-□□	76(69)	36.5(28)	121.9(115)	9V x 1	149
LCT135 -N -□□	85(76)	40(27)	143.9(135)	None	210.5
LCT135 -F4 -□□	85(76)	40(27)	143.9(135)	AAA x 4	225.5
LCT135 -M2-□□	85(76)	40(27)	143.9(135)	AA x 2	223.5
LCT135 -M3-□□	85(76)	40(27)	143.9(135)	AA x 3	229
LCT135 -9V-□□	85(76)	40(27)	143.9(135)	9V x 1	227
LCT135H-N -□□	85(76)	48(35)	143.9(135)	None	231.5
LCT135H-F4 -□□	85(76)	48(35)	143.9(135)	AAA x 4	246
LCT135H-M2-□□	85(76)	48(35)	143.9(135)	AA x 2	245
LCT135H-M3-□□	85(76)	48(35)	143.9(135)	AA x 3	250
LCT135H-9V-□□	85(76)	48(35)	143.9(135)	9V x 1	247.5
LCT145 -N -□□	105(96)	40(27)	153.9(145)	None	258.5
LCT145 -F6 -□□	105(96)	40(27)	153.9(145)	AAA x 6	278.5
LCT145 -M2-□□	105(96)	40(27)	153.9(145)	AA x 2	272.5
LCT145 -M4-□□	105(96)	40(27)	153.9(145)	AA x 4	279.5
LCT145H-N -□□	105(96)	48(35)	153.9(145)	None	282
LCT145H-F6 -□□	105(96)	48(35)	153.9(145)	AAA x 6	302.5
LCT145H-M2-□□	105(96)	48(35)	153.9(145)	AA x 2	296
LCT145H-M4-□□	105(96)	48(35)	153.9(145)	AA x 4	303
LCT165 -N -□□	89(80)	40(27)	173.9(165)	None	263.5
LCT165 -M4-□□	89(80)	40(27)	173.9(165)	AA x 4	283
LCT165H-N -□□	89(80)	48(35)	173.9(165)	None	286
LCT165H-M4-□□	89(80)	48(35)	173.9(165)	AA x 4	305

■ () value = enclosure dimension.

Silicone cover dimensions

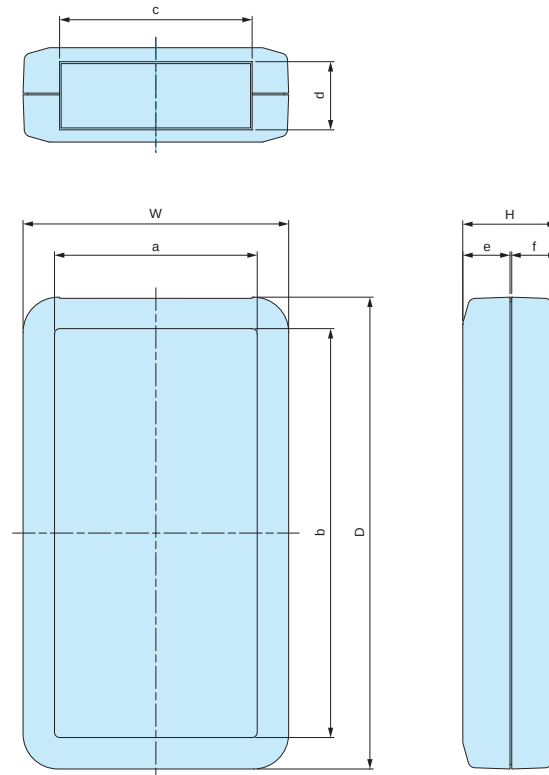
■ DXF/DWG/PDF drawings available on our website.



Product no.	W	H	D	a	b	c	d	e	f	g
LCT115 -N -□□	76	28	121.9	55.5	101.5	48.3	12	24	72	117.8
LCT115 -F2 -□□	76	28	121.9	55.5	101.5	48.3	12	24	72	117.8
LCT115 -F3 -□□	76	28	121.9	55.5	101.5	48.3	12	24	72	117.8
LCT115H -N -□□	76	36.5	121.9	55.5	101.5	48.3	20.5	32.5	72	117.8
LCT115H -F2 -□□	76	36.5	121.9	55.5	101.5	48.3	20.5	32.5	72	117.8
LCT115H -F3 -□□	76	36.5	121.9	55.5	101.5	48.3	20.5	32.5	72	117.8
LCT115H -M2 -□□	76	36.5	121.9	55.5	101.5	48.3	20.5	32.5	72	117.8
LCT115H -9V -□□	76	36.5	121.9	55.5	101.5	48.3	20.5	32.5	72	117.8
LCT135 -N -□□	85	40	143.9	59.5	118.5	55	19	34	81	139.7
LCT135 -F4 -□□	85	40	143.9	59.5	118.5	55	19	34	81	139.7
LCT135 -M2 -□□	85	40	143.9	59.5	118.5	55	19	34	81	139.7
LCT135 -M3 -□□	85	40	143.9	59.5	118.5	55	19	34	81	139.7
LCT135 -9V -□□	85	40	143.9	59.5	118.5	55	19	34	81	139.7
LCT135H -N -□□	85	48	143.9	59.5	118.5	55	27	42	81	139.6
LCT135H -F4 -□□	85	48	143.9	59.5	118.5	55	27	42	81	139.6
LCT135H -M2 -□□	85	48	143.9	59.5	118.5	55	27	42	81	139.6
LCT135H -M3 -□□	85	48	143.9	59.5	118.5	55	27	42	81	139.6
LCT135H -9V -□□	85	48	143.9	59.5	118.5	55	27	42	81	139.6
LCT145 -N -□□	105	40	153.9	76.5	125.5	71	19	34	101	149.7
LCT145 -F6 -□□	105	40	153.9	76.5	125.5	71	19	34	101	149.7
LCT145 -M2 -□□	105	40	153.9	76.5	125.5	71	19	34	101	149.7
LCT145 -M4 -□□	105	40	153.9	76.5	125.5	71	19	34	101	149.7
LCT145H -N -□□	105	48	153.9	76.5	125.5	71	27	42	101	149.7
LCT145H -F6 -□□	105	48	153.9	76.5	125.5	71	27	42	101	149.7
LCT145H -M2 -□□	105	48	153.9	76.5	125.5	71	27	42	101	149.7
LCT145H -M4 -□□	105	48	153.9	76.5	125.5	71	27	42	101	149.7
LCT165 -N -□□	89	40	173.9	63.5	148.5	59	19	34	85	169.7
LCT165 -M4 -□□	89	40	173.9	63.5	148.5	59	19	34	85	169.7
LCT165H -N -□□	89	48	173.9	63.5	148.5	59	27	42	85	169.6
LCT165H -M4 -□□	89	48	173.9	63.5	148.5	59	27	42	85	169.6

Enclosure dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	e	f	Battery compartment
LCT115 -N -□□	69	19.5	115	54	100	48.1	12	10	9	None
LCT115 -F2 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 2
LCT115 -F3 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 3
LCT115H -N -□□	69	28	115	54	100	48.1	20.5	18.5	9	None
LCT115H -F2 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AAA x 2
LCT115H -F3 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AAA x 3
LCT115H -M2 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AA x 2
LCT115H -9V -□□	69	28	115	54	100	48.1	20.5	18.5	9	9V x 1
LCT135 -N -□□	76	27	135	58	117	55.1	19.5	13.5	13	None
LCT135 -F4 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AAA x 4
LCT135 -M2 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AA x 2
LCT135 -M3 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AA x 3
LCT135 -9V -□□	76	27	135	58	117	55.1	19.5	13.5	13	9V x 1
LCT135H -N -□□	76	35	135	58	117	55.1	27.5	21.5	13	None
LCT135H -F4 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AAA x 4
LCT135H -M2 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AA x 2
LCT135H -M3 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AA x 3
LCT135H -9V -□□	76	35	135	58	117	55.1	27.5	21.5	13	9V x 1
LCT145 -N -□□	96	27	145	75	124	71.1	19.5	14.5	12	None
LCT145 -F6 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AAA x 6
LCT145 -M2 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AA x 2
LCT145 -M4 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AA x 4
LCT145H -N -□□	96	35	145	75	124	71.1	27.5	22.5	12	None
LCT145H -F6 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AAA x 6
LCT145H -M2 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AA x 2
LCT145H -M4 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AA x 4
LCT165 -N -□□	80	27	165	62	147	59.1	19.5	13.5	13	None
LCT165 -M4 -□□	80	27	165	62	147	59.1	19.5	13.5	13	AA x 4
LCT165H -N -□□	80	35	165	62	147	59.1	27.5	21.5	13	None
LCT165H -M4 -□□	80	35	165	62	147	59.1	27.5	21.5	13	AA x 4



Technical Data

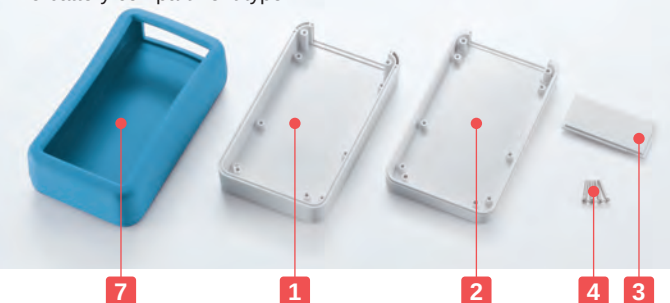
Protection class: IP40
Operating temperature: -10°C ~ +60°C

- Plastic case with silicone cover providing not only comfortable and anti-slip grip, but also protection from drop impact.
- Manufactured with flame-resistant ABS UL94V-0. Several battery compartment types are available.
- Positive (+) / negative (-) pole mark are incised on the inside of the battery compartments.
- Suitable for measuring instruments, test devices, wireless communication devices, medical devices and more.

Battery compartment type



No battery compartment type



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Dark gray
2	Bottom cover	1	ABS UL94V-0	Off-white • Dark gray
3	Panel	1	ABS UL94V-0	Off-white • Dark gray
4	Self-tapping screw	4	Steel M2.6	Nickel plated • Black trivalent chromate
5	Battery cover	1	ABS UL94V-0	Off-white • Dark gray
6	Battery contact	1 set	Brass	Nickel plated
	Battery snap • Cushion sponge (only for 9V models)	1 set	Brass : PVC • Polyurethane foam (UL94HF-1)	Nickel plated • Black
7	Silicone cover	1	Silicone	Red • Green • Blue • Light gray • Dark gray

Accessories (Optional parts)



Tapping standoff TPS series
See page 397



PCB mounting screw EM-2.3
See page 398



TORX screw MR series
See page 398



Key ring CR-20
See page 389



Strap STP series
See page 389

Battery Compartment Type

Type	N None	F2 AAA x 2	F3 AAA x 3	F4 AAA x 4	F6 AAA x 6	M2 AA x 2	M3 AA x 3	M4 AA x 4	9V 9V x 1
Battery compartment									

Color Type

Code	D R Dark gray / Red	D G Dark gray / Green	D B Dark gray / Blue	D D Dark gray / Dark gray	D L Dark gray / Light gray
Color					
Code	W R Off-white / Red	W G Off-white / Green	W B Off-white / Blue	W D Off-white / Dark gray	W L Off-white / Light gray
Color					

Product no. / Details

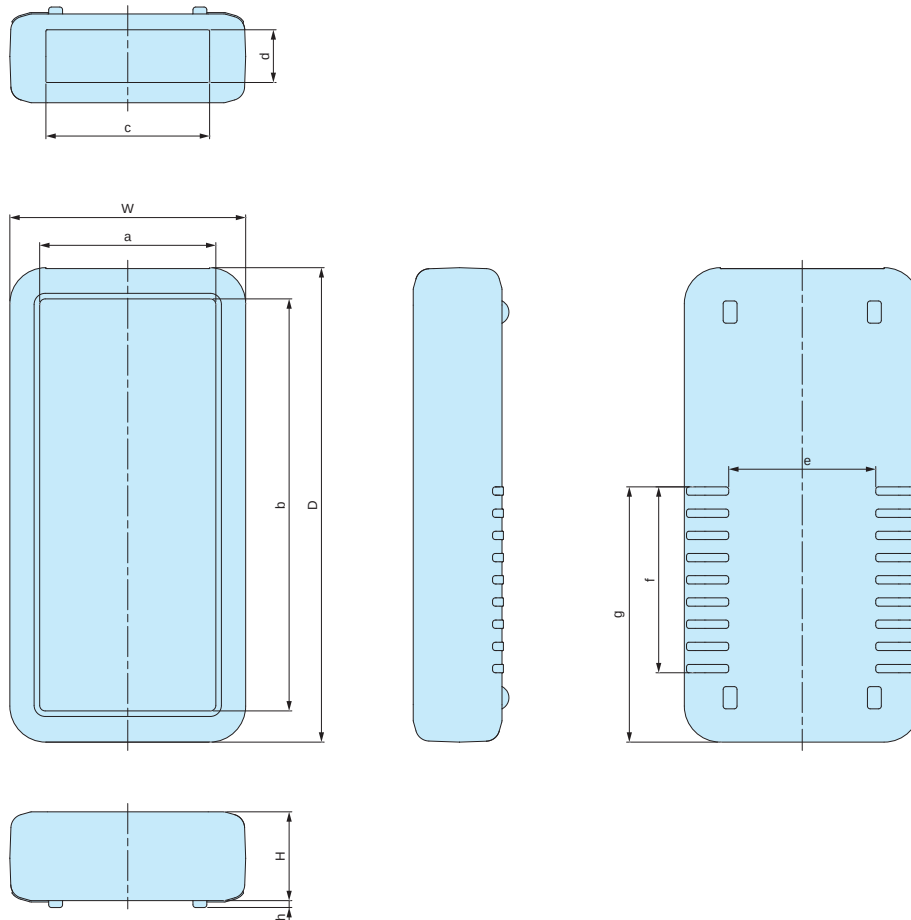
■ Please suffix color code at the end of the product number.

Product no.	W	H	D	Battery compartment	Weight (g)
LCS115 -N -□□	74(69)	24(19.5)	120(115)	None	113
LCS115 -F2 -□□	74(69)	24(19.5)	120(115)	AAA x 2	117.5
LCS115 -F3 -□□	74(69)	24(19.5)	120(115)	AAA x 3	119.5
LCS115H -N -□□	74(69)	32.5(28)	120(115)	None	130
LCS115H -F2 -□□	74(69)	32.5(28)	120(115)	AAA x 2	134.5
LCS115H -F3 -□□	74(69)	32.5(28)	120(115)	AAA x 3	136
LCS115H -M2 -□□	74(69)	32.5(28)	120(115)	AA x 2	138.5
LCS115H -9V -□□	74(69)	32.5(28)	120(115)	9V x 1	138
LCS135 -N -□□	81(76)	32(27)	141(135)	None	165
LCS135 -F4 -□□	81(76)	32(27)	141(135)	AAA x 4	180
LCS135 -M2 -□□	81(76)	32(27)	141(135)	AA x 2	178
LCS135 -M3 -□□	81(76)	32(27)	141(135)	AA x 3	183.5
LCS135 -9V -□□	81(76)	32(27)	141(135)	9V x 1	181.5
LCS135H -N -□□	81(76)	40(35)	141(135)	None	183
LCS135H -F4 -□□	81(76)	40(35)	141(135)	AAA x 4	197.5
LCS135H -M2 -□□	81(76)	40(35)	141(135)	AA x 2	196.5
LCS135H -M3 -□□	81(76)	40(35)	141(135)	AA x 3	201.5
LCS135H -9V -□□	81(76)	40(35)	141(135)	9V x 1	199
LCS145 -N -□□	101(96)	32(27)	151(145)	None	202
LCS145 -F6 -□□	101(96)	32(27)	151(145)	AAA x 6	222
LCS145 -M2 -□□	101(96)	32(27)	151(145)	AA x 2	216
LCS145 -M4 -□□	101(96)	32(27)	151(145)	AA x 4	223
LCS145H -N -□□	101(96)	40(35)	151(145)	None	224
LCS145H -F6 -□□	101(96)	40(35)	151(145)	AAA x 6	244.5
LCS145H -M2 -□□	101(96)	40(35)	151(145)	AA x 2	238
LCS145H -M4 -□□	101(96)	40(35)	151(145)	AA x 4	245
LCS165 -N -□□	85(80)	32(27)	171(165)	None	203
LCS165 -M4 -□□	85(80)	32(27)	171(165)	AA x 4	222.5
LCS165H -N -□□	85(80)	40(35)	171(165)	None	220.5
LCS165H -M4 -□□	85(80)	40(35)	171(165)	AA x 4	239.5

■ () value = enclosure dimension.

Silicone cover dimensions

■ DXF/DWG/PDF drawings available on our website.

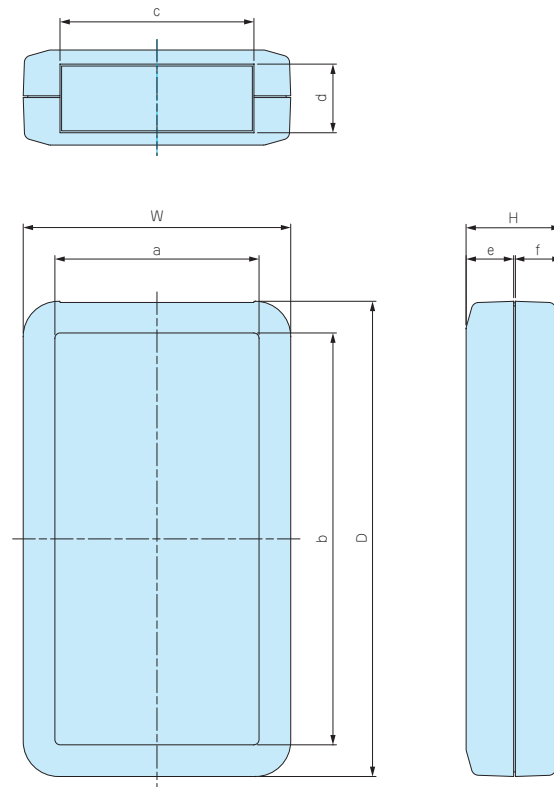


■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	e	f	g	h
LCS115 -N -□□	74	24	120	55.5	101.5	48.3	12	46	44.5	60.5	2
LCS115 -F2 -□□	74	24	120	55.5	101.5	48.3	12	46	44.5	60.5	2
LCS115 -F3 -□□	74	24	120	55.5	101.5	48.3	12	46	44.5	60.5	2
LCS115H -N -□□	74	32.5	120	55.5	101.5	48.3	20.5	46	44.5	60.5	2
LCS115H -F2 -□□	74	32.5	120	55.5	101.5	48.3	20.5	46	44.5	60.5	2
LCS115H -F3 -□□	74	32.5	120	55.5	101.5	48.3	20.5	46	44.5	60.5	2
LCS115H -M2 -□□	74	32.5	120	55.5	101.5	48.3	20.5	46	44.5	60.5	2
LCS115H -9V -□□	74	32.5	120	55.5	101.5	48.3	20.5	46	44.5	60.5	2
LCS135 -N -□□	81	32	141	59.5	118.5	55	19	53	59	79	2.5
LCS135 -F4 -□□	81	32	141	59.5	118.5	55	19	53	59	79	2.5
LCS135 -M2 -□□	81	32	141	59.5	118.5	55	19	53	59	79	2.5
LCS135 -M3 -□□	81	32	141	59.5	118.5	55	19	53	59	79	2.5
LCS135 -9V -□□	81	32	141	59.5	118.5	55	19	53	59	79	2.5
LCS135H -N -□□	81	40	141	59.5	118.5	55	27	53	59	79	2.5
LCS135H -F4 -□□	81	40	141	59.5	118.5	55	27	53	59	79	2.5
LCS135H -M2 -□□	81	40	141	59.5	118.5	55	27	53	59	79	2.5
LCS135H -M3 -□□	81	40	141	59.5	118.5	55	27	53	59	79	2.5
LCS135H -9V -□□	81	40	141	59.5	118.5	55	27	53	59	79	2.5
LCS145 -N -□□	101	32	151	76.5	125.5	71	19	71	59	81	2.5
LCS145 -F6 -□□	101	32	151	76.5	125.5	71	19	71	59	81	2.5
LCS145 -M2 -□□	101	32	151	76.5	125.5	71	19	71	59	81	2.5
LCS145 -M4 -□□	101	32	151	76.5	125.5	71	19	71	59	81	2.5
LCS145H -N -□□	101	40	151	76.5	125.5	71	27	71	59	81	2.5
LCS145H -F6 -□□	101	40	151	76.5	125.5	71	27	71	59	81	2.5
LCS145H -M2 -□□	101	40	151	76.5	125.5	71	27	71	59	81	2.5
LCS145H -M4 -□□	101	40	151	76.5	125.5	71	27	71	59	81	2.5
LCS165 -N -□□	85	32	171	63.5	148.5	59	19	53	67	92	2.5
LCS165 -M4 -□□	85	32	171	63.5	148.5	59	19	53	67	92	2.5
LCS165H -N -□□	85	40	171	63.5	148.5	59	27	53	67	92	2.5
LCS165H -M4 -□□	85	40	171	63.5	148.5	59	27	53	67	92	2.5

Enclosure dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	e	f	Battery compartment
LCS115 -N -□□	69	19.5	115	54	100	48.1	12	10	9	None
LCS115 -F2 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 2
LCS115 -F3 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 3
LCS115H -N -□□	69	28	115	54	100	48.1	20.5	18.5	9	None
LCS115H -F2 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AAA x 2
LCS115H -F3 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AAA x 3
LCS115H -M2 -□□	69	28	115	54	100	48.1	20.5	18.5	9	AA x 2
LCS115H -9V -□□	69	28	115	54	100	48.1	20.5	18.5	9	9V x 1
LCS135 -N -□□	76	27	135	58	117	55.1	19.5	13.5	13	None
LCS135 -F4 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AAA x 4
LCS135 -M2 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AA x 2
LCS135 -M3 -□□	76	27	135	58	117	55.1	19.5	13.5	13	AA x 3
LCS135 -9V -□□	76	27	135	58	117	55.1	19.5	13.5	13	9V x 1
LCS135H -N -□□	76	35	135	58	117	55.1	27.5	21.5	13	None
LCS135H -F4 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AAA x 4
LCS135H -M2 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AA x 2
LCS135H -M3 -□□	76	35	135	58	117	55.1	27.5	21.5	13	AA x 3
LCS135H -9V -□□	76	35	135	58	117	55.1	27.5	21.5	13	9V x 1
LCS145 -N -□□	96	27	145	75	124	71.1	19.5	14.5	12	None
LCS145 -F6 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AAA x 6
LCS145 -M2 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AA x 2
LCS145 -M4 -□□	96	27	145	75	124	71.1	19.5	14.5	12	AA x 4
LCS145H -N -□□	96	35	145	75	124	71.1	27.5	22.5	12	None
LCS145H -F6 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AAA x 6
LCS145H -M2 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AA x 2
LCS145H -M4 -□□	96	35	145	75	124	71.1	27.5	22.5	12	AA x 4
LCS165 -N -□□	80	27	165	62	147	59.1	19.5	13.5	13	None
LCS165 -M4 -□□	80	27	165	62	147	59.1	19.5	13.5	13	AA x 4
LCS165H -N -□□	80	35	165	62	147	59.1	27.5	21.5	13	None
LCS165H -M4 -□□	80	35	165	62	147	59.1	27.5	21.5	13	AA x 4

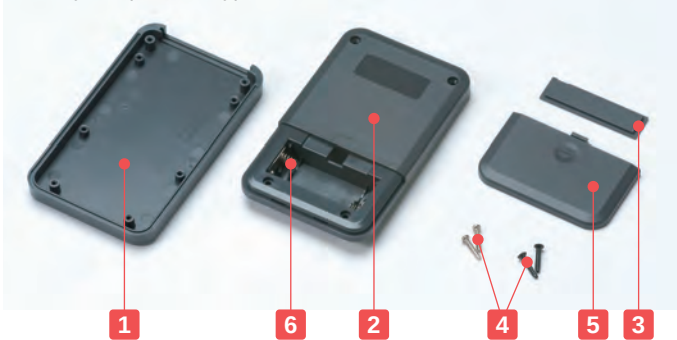


Technical Data

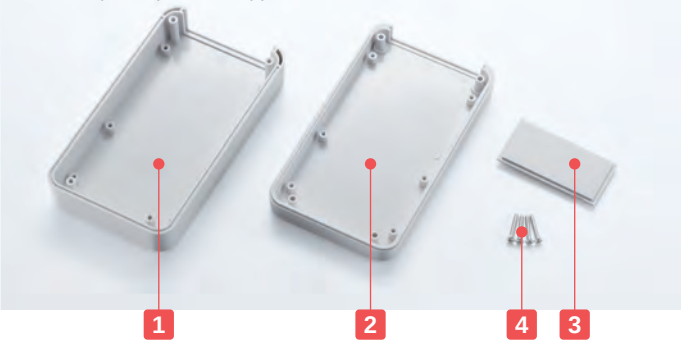
Protection class: IP40
Operating temperature: -10°C ~ +60°C

- Designed with beveled edges and rounded corners, and manufactured from flame-retardant ABS UL94V-0 material.
- Available in 9 different compartment types: AAx2, AAx3, AAx4, AAAx2, AAAx3, AAAx4, AAAx6, 9Vx1, and no battery compartment type.
- Positive (+) / negative (-) pole mark are incused within each battery compartment.
- Recommended to be used as measuring instruments, testing devices, wireless communication gadgets, medical equipment, and more.

Battery compartment type



No battery compartment type



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Dark gray
2	Bottom cover	1	ABS UL94V-0	Off-white • Dark gray
3	Panel	1	ABS UL94V-0	Off-white • Dark gray
4	Self-tapping screw	4	Steel M2.6	Nickel plated • Black trivalent chromate
5	Battery cover	1	ABS UL94V-0	Off-white • Dark gray
6	Battery contact	1 set	Brass	Nickel plated
	Battery snap • Cushion sponge (only for 9V models)	1 set	Brass : PVC • Polyurethane foam (UL94HF-1)	Nickel plated • Black

Accessories (Optional parts)



Tapping standoff TPS series
See page 397



PCB mounting screw EM-2.3
See page 398



Belt clip GDH series
See page 390



Key ring • Strap CR-20 • STP series
See page 389



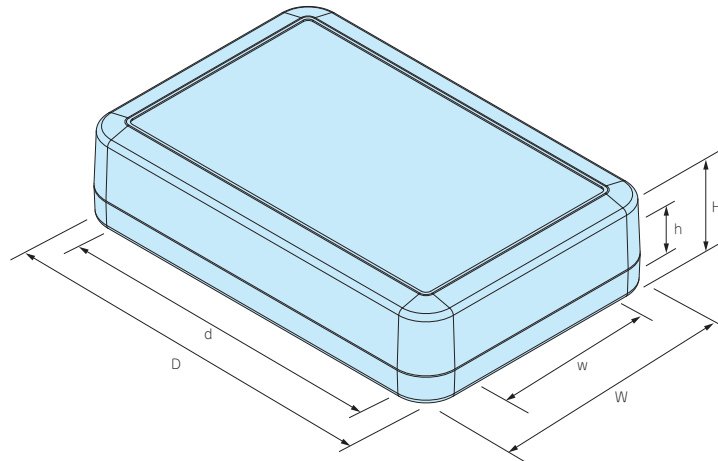
Suspension bracket WM series
See page 391



Neodymium magnet NMG series
See page 392

LC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Battery Compartment Type

Type	N None	F2 AAx2	F3 AAx3	F4 AAx4	F6 AAx6	M2 AAx2	M3 AAx3	M4 AAx4	9V 9Vx1
Battery compartment									

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.		External dimensions			Internal dimensions			Screw	Battery compartment	Weight (g)
● Dark gray	● Off-white	W	H	D	w	h	d			
LC115 -N -D	LC115 -N -W	69	19.5	115	61.5	9.5	86.5	M2.6-14 flat head x 4 pcs	None	70
LC115 -F2 -D	LC115 -F2 -W	69	19.5	115	61.5	9.5	63	M2.6-14 flat head x 2 pcs / M2.6-12 pan head x 2 pcs	AAA x 2	74.5
LC115 -F3 -D	LC115 -F3 -W	69	19.5	115	61.5	9.5	52	M2.6-14 flat head x 2 pcs / M2.6-12 pan head x 2 pcs	AAA x 3	76.5
LC115H -N -D	LC115H -N -W	69	28	115	60.9	18	86.5	M2.6-18 flat head x 4 pcs	None	80
LC115H -F2 -D	LC115H -F2 -W	69	28	115	60.9	18	63	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 2	84.5
LC115H -F3 -D	LC115H -F3 -W	69	28	115	60.9	18	52	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 3	86
LC115H -M2 -D	LC115H -M2 -W	69	28	115	60.9	18	54.8	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 2	88.5
LC115H -9V -D	LC115H -9V -W	69	28	115	60.9	18	55.7	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	9V x 1	88
LC135 -N -D	LC135 -N -W	76	27	135	68.2	16	107	M2.6-18 flat head x 4 pcs	None	95
LC135 -F4 -D	LC135 -F4 -W	76	27	135	68.2	16	59.2	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 4	110
LC135 -M2 -D	LC135 -M2 -W	76	27	135	68.2	16	74.3	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 2	108
LC135 -M3 -D	LC135 -M3 -W	76	27	135	68.2	16	59.2	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 3	113.5
LC135 -9V -D	LC135 -9V -W	76	27	135	68.2	16	74.3	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	9V x 1	111.5
LC135H -N -D	LC135H -N -W	76	35	135	67.7	24	107	M2.6-18 flat head x 4 pcs	None	107.5
LC135H -F4 -D	LC135H -F4 -W	76	35	135	67.7	24	59.2	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 4	122
LC135H -M2 -D	LC135H -M2 -W	76	35	135	67.7	24	74.3	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 2	121
LC135H -M3 -D	LC135H -M3 -W	76	35	135	67.7	24	59.2	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 3	126
LC135H -9V -D	LC135H -9V -W	76	35	135	67.7	24	74.3	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	9V x 1	123.5
LC145S -N -D	LC145S -N -W	96	20	145	87.9	9.5	112.9	M2.6-14 flat head x 4 pcs	None	110
LC145S -F6 -D	LC145S -F6 -W	96	20	145	88.1	9.2	67.8	M2.6-14 flat head x 2 pcs / M2.6-12 pan head x 2 pcs	AAA x 6	130
LC145 -N -D	LC145 -N -W	96	27	145	87.8	16.5	112.9	M2.6-18 flat head x 4 pcs	None	121
LC145 -F6 -D	LC145 -F6 -W	96	27	145	87.8	16.5	67.8	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 6	141
LC145 -M2 -D	LC145 -M2 -W	96	27	145	87.8	16.5	86.8	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 2	135
LC145 -M4 -D	LC145 -M4 -W	96	27	145	87.8	16.5	63.4	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 4	142
LC145H -N -D	LC145H -N -W	96	35	145	87.2	24.5	112.9	M2.6-18 flat head x 4 pcs	None	135
LC145H -F6 -D	LC145H -F6 -W	96	35	145	87.2	24.5	67.8	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AAA x 6	155.5
LC145H -M2 -D	LC145H -M2 -W	96	35	145	87.2	24.5	86.8	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 2	149
LC145H -M4 -D	LC145H -M4 -W	96	35	145	87.2	24.5	63.4	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 4	156
LC165 -N -D	LC165 -N -W	80	27	165	72.2	16	137	M2.6-18 flat head x 4 pcs	None	120.5
LC165 -M4 -D	LC165 -M4 -W	80	27	165	72.2	16	79	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 4	140
LC165H -N -D	LC165H -N -W	80	35	165	71.7	24	137	M2.6-18 flat head x 4 pcs	None	134.5
LC165H -M4 -D	LC165H -M4 -W	80	35	165	71.7	24	79	M2.6-18 flat head x 2 pcs / M2.6-14 pan head x 2 pcs	AA x 4	153.5

EMC
Shielding

Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C

- LCE series is an EMC shielded version of LC hand-held plastic case coated internally with DOTITE conductive paint (acrylic paint mixed with nickel filler).
- Designed with beveled edges and rounded corners, and manufactured from flame-resistant ABS UL94V-0 material.
- Recommended to be used as measuring instruments, testing devices, wireless communication gadgets, medical equipment, and more.

Components

No.	Part name	Pcs	Material	Color / Finish	Conductive paint
1	Top cover	1	ABS UL94V-0	Dark gray	DOTITE
2	Bottom cover	1	ABS UL94V-0	Dark gray	DOTITE
3	Panel	1	ABS UL94V-0	Dark gray	DOTITE
4	Self-tapping screw	4	Steel M2.6	Black trivalent chromate	—

Accessories (Optional parts)



Silicone cover LCTP • LCSC series
See page 57 ~ 58



Tapping standoff TPS series
See page 397



PCB mounting screw EM-2.3
See page 398



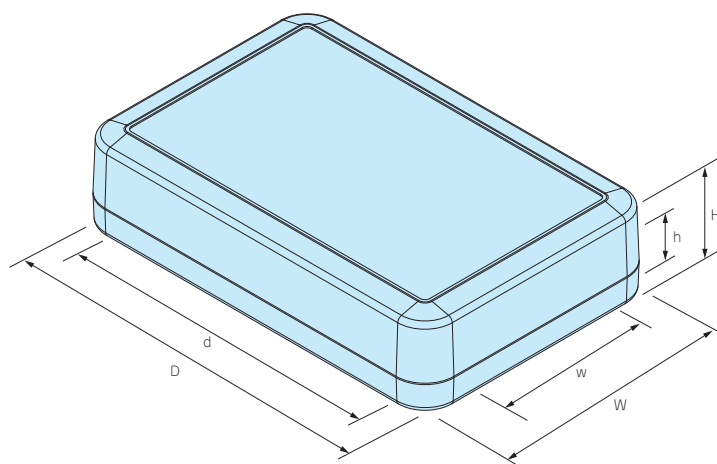
TORX screw MR series
See page 398



Suspension bracket WM series
See page 391

LCE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions			Internal dimensions			Screw	Weight (g)
	W	H	D	w	h	d		
LCE115 -N -D	69	19.5	115	61.5	9.5	86.5	M2.6-14 flat head x 4 pcs	72.5
LCE115H -N -D	69	28	115	60.9	18	86.5	M2.6-18 flat head x 4 pcs	84
LCE135 -N -D	76	27	135	68.2	16	107	M2.6-18 flat head x 4 pcs	97
LCE145H -N -D	96	35	145	87.2	24.5	112.9	M2.6-18 flat head x 4 pcs	137
LCE165H -N -D	80	35	165	71.7	24	137	M2.6-18 flat head x 4 pcs	139

CONDUCTIVE PAINT CUSTOMIZATION AVAILABLE for LC series

The LCE series are a selected few models of the LC series, customized with conductive paint.

Other LC series enclosures not listed can also be customized with conductive paint.

Contact us for more details.

E-mail : sales@takachi-el.co.jp



LCTP series

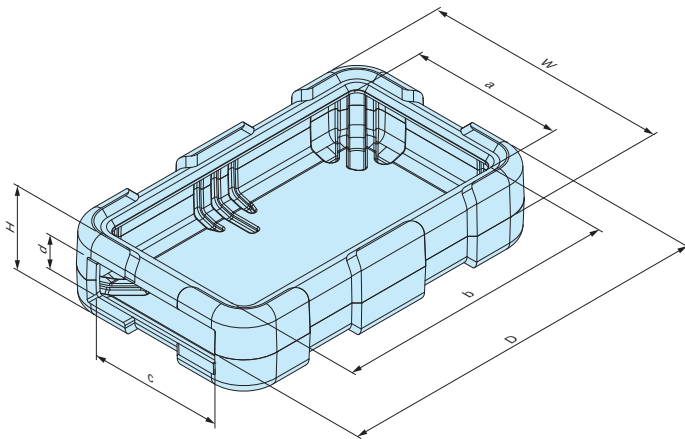
SHOCKPROOF SILICONE COVER for LC • LCE

Color Type

Code	 Orange	 Green	 Navy	 Dark gray
Color				

- Shock-proof silicone cover for LC and LCE series.

LCTP dimensions



- DXF/DWG/PDF drawings available on our website.

APPLICATION EXAMPLE

Ultrasonic Hardness Tester



Components

Part name	Material	Color
Silicone cover	Silicone	Orange • Green • Navy • Dark gray

Product no. / Details

- Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	Suitable models	Weight (g)
LCTP115 -□	76	28	121.9	55.5	101.5	48.3	12	LC115 • LCE115	53.5
LCTP115H-□	76	36.5	121.9	55.5	101.5	48.3	20.5	LC115H • LCE115H	61
LCTP135 -□	85	40	143.9	59.5	118.5	55	19	LC135 • LCE135	115.5
LCTP135H-□	85	48	143.9	59.5	118.5	55	27	LC135H	124
LCTP145 -□	105	40	153.9	76.5	125.5	71	19	LC145	137.5
LCTP145H-□	105	48	153.9	76.5	125.5	71	27	LC145H • LCE145H	147
LCTP165 -□	89	40	173.9	63.5	148.5	59	19	LC165	143
LCTP165H-□	89	48	173.9	63.5	148.5	59	27	LC165H • LCE165H	151.5

- Custom color is available from just 1 pc. For 500 pcs or more, manufacturing costs will be similar to a standard color. Please inquire for more details. For custom color order, please specify **PANTONE®** color code.



LCSC series

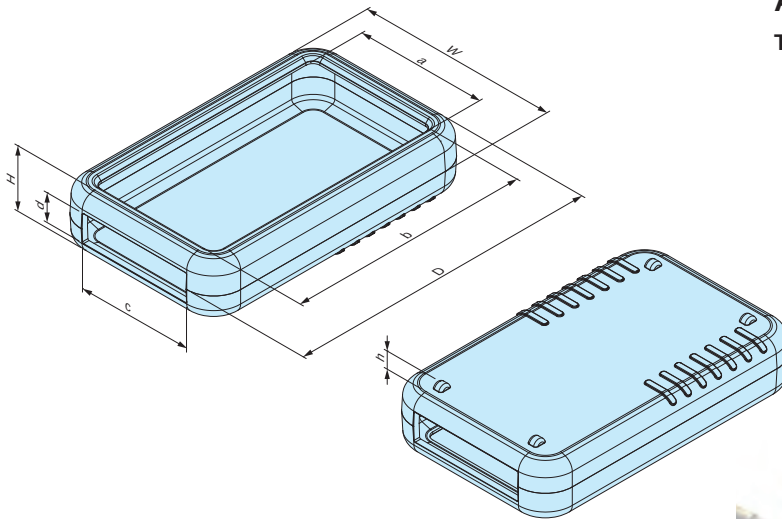
SILICONE COVER for LC • LCE

Color Type

Code	[R] Red	[G] Green	[B] Blue	[D] Dark gray	[L] Light gray
Color					

■ Silicone cover for LC and LCE series.

LCSC dimensions



■ DXF/DWG/PDF drawings available on our website.

APPLICATION EXAMPLE

Temperature Surveillance Sensor



Components

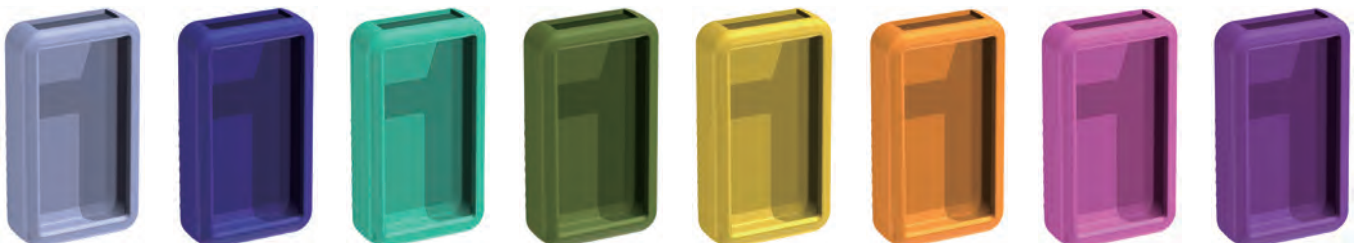
Part name	Material	Color
Silicone cover	Silicone	Red • Green • Blue • Dark gray • Light gray

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	h	Suitable models	Weight (g)
LCSC115 -□	74	24	120	55.5	101.5	48.3	12	2	LC115 • LCE115	43
LCSC115H -□	74	32.5	120	55.5	101.5	48.3	20.5	2	LC115H • LCE115H	50
LCSC135 -□	81	32	141	59.5	118.5	55	19	2.5	LC135 • LCE135	70
LCSC135H -□	81	40	141	59.5	118.5	55	27	2.5	LC135H	75.5
LCSC145 -□	101	32	151	76.5	125.5	71	19	2.5	LC145	81
LCSC145H -□	101	40	151	76.5	125.5	71	27	2.5	LC145H • LCE145H	89
LCSC165 -□	85	32	171	63.5	148.5	59	19	2.5	LC165	82.5
LCSC165H -□	85	40	171	63.5	148.5	59	27	2.5	LC165H • LCE165H	86

■ Custom color is available from just 1 pc. For 500pcs or more, manufacturing costs will be similar to a standard color. Please inquire for more details. For custom color order, please specify **PANTONE®** color code.



WSC series

IP67 SLOPED PLASTIC CASE

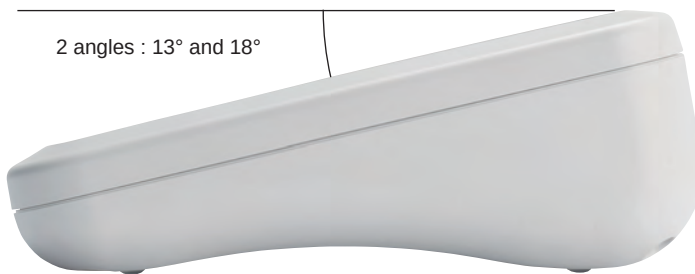


Ergonomic design and streamlined shape

Best suited for desktop operation with its sloped surface.

2 different inclined angles, 13° and 18° are available to select for various operating environments.

Streamlined shape enables the unit to be gripped better when used as a handheld instrument.



2 angles : 13° and 18°

Photo : 13° type



IP67 water- and dust-proof structure that can withstand various environments

High elasticity and good durability for maintaining waterproofing capability.

Built-in insert nut use for long-lasting protection even after frequent opening and closing.



APPLICATION EXAMPLE

Medical Measurement Device • Medical Controller



Transmitter • Network Equipment



RFID Card Reader



RFID Reader for ICT Entry/Exit System "KIDSNA connect" for Daycare/Preschool



Information on waterproofing after hole milling for switches

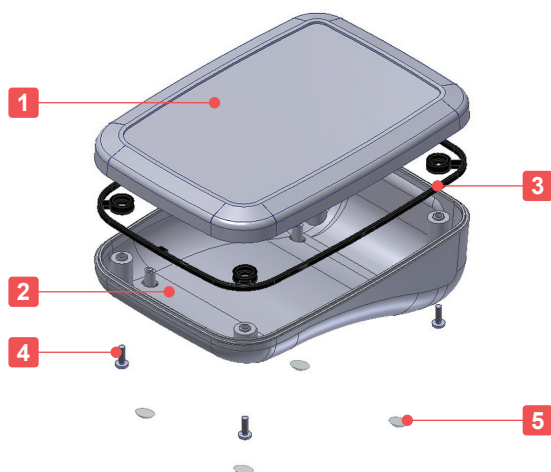
The waterproof performance will be lost once hole or cutout is machined on an IP rated enclosure.
To ensure it remains waterproof after hole/cutout machining, IP rated membrane pad or overlay is required.



Information on affixing of cables into waterproof enclosures

Please utilize a cable gland from our available range of cable gland accessories.





Technical Data

Protection class : IP67
 Operating temperature : -10°C ~ +60°C
 Recommended torque : 0.2 ~ 0.3N • m

- Suitable as a desktop controller or measurement instrument with its ergonomic design.
- Streamlined shape enables the unit to be gripped better when used as a handheld instrument.
- IP67 protection class allows the unit to be used outdoors or under environments with water splashes, such as for medical research or measuring equipment.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top Cover	1	Flame-resistant ABS UL94V-0	Off-white • Black
2	Bottom base	1	Flame-resistant ABS UL94V-0	Off-white • Black
3	Gasket	1	Silicone	Black
4	Screw	4	Stainless steel binding head M2.5-8	Unfinished
5	Rubber feet	4	Polyurethane	Transparent

Accessories (Optional parts)



PCB mounting screw EM series
See page 398



Adhesive standoff AST series
See page 394



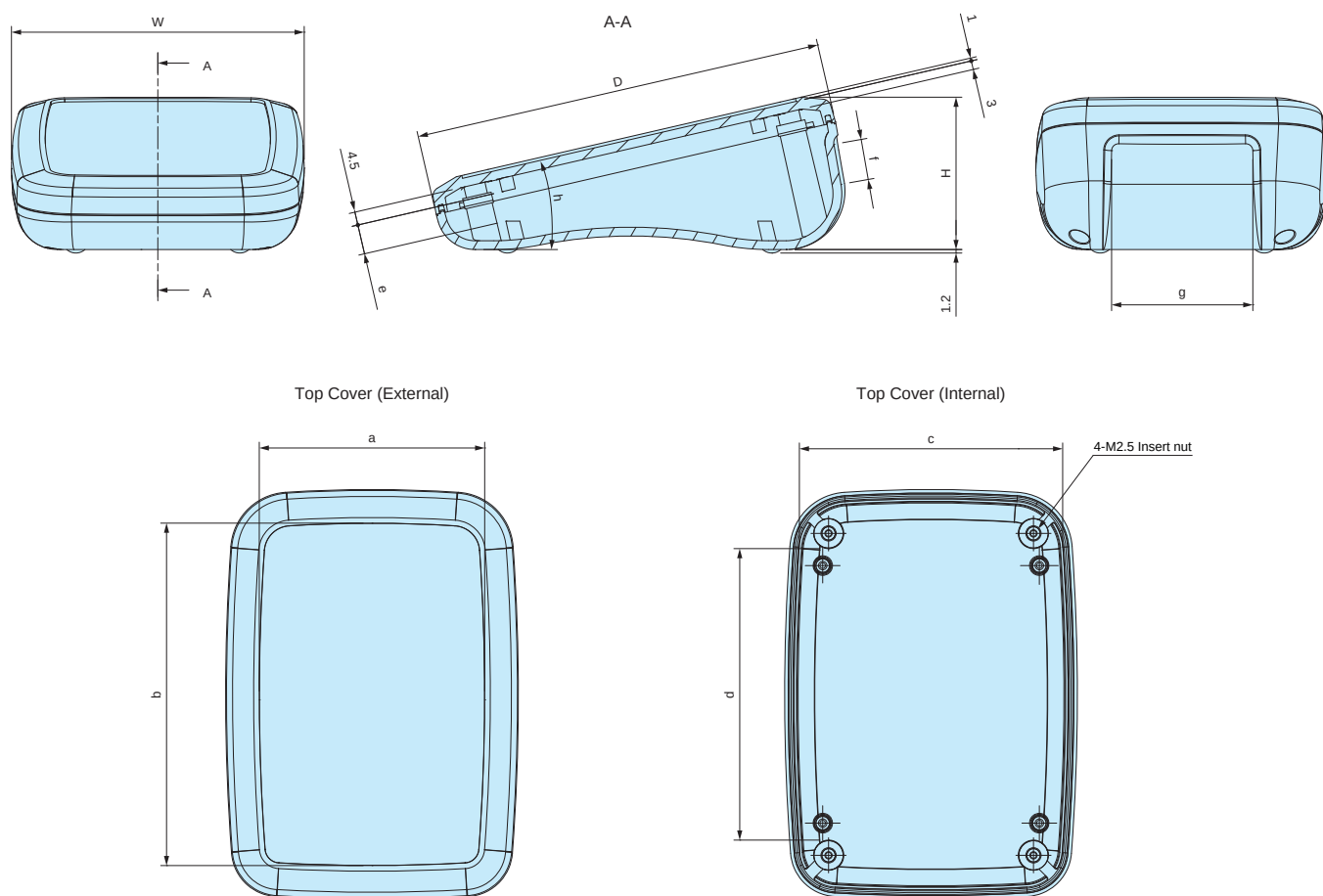
TORX screw MR series
See page 398



Cable gland
See page 181 ~ 193

WSC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



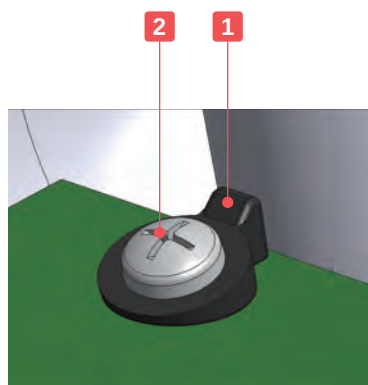
Product no. / Details

Product no.		Dimensions										Face angle	Weight (g)
● Off-white	● Black	W	D	H	a	b	c	d	e	f	g	h	
WSC10-14-5W	WSC10-14-5B	100	140	52	77	117	87	100	10	13.9	48.2	13°	145
WSC10-14-7W	WSC10-14-7B	100	140	72	77	117	87	100	22	27.4	48.2	18°	168
WSC14-14-5W	WSC14-14-5B	140	140	52	117	117	128	100	10	13.8	80.5	13°	190
WSC14-14-7W	WSC14-14-7B	140	140	72	117	117	128	100	22	27.4	80.5	18°	218
WSC18-14-5W	WSC18-14-5B	175	140	52	152	117	163	95	11.3	13.8	103.5	13°	234
WSC18-14-7W	WSC18-14-7B	175	140	72	152	117	163	95	23.7	27.4	103.5	18°	262

Accessories (Optional parts)

WSP-M2.3

INCLINED SPACER for WSC



- Due to the sloped shape of the WSC series, boss-tops are also angled. Therefore when mounting PCB on, some gap between the screw head and PCB surface will occur as shown in the diagram. WSP-M2.3 helps to fill the gap.
- EM-2.3-8 as PCB mounting screws are available for bosses in bottom base. (See page 398)



Components

No.	Part name	Pcs	Material	Color / Finish
1	Inclined spacer	4	POM	Black
2	Screw (Tapping M2.3-8)	4	Steel	Trivalent chromate

■ Recommended torque : 0.1N • m

Product no. / Details

Product no.	Suitable models	Pack of
WSP-M2.3	WSC (for bottom base PCB boss)	4

SHOCKPROOF PLASTIC ENCLOSURE

Ensure your industrial tablet, measuring equipment and controllers are protected with the silicone corner guards

PFG series



6 DIFFERENT COLOR COMBINATIONS AVAILABLE

3 corner guard colors and 2 plastic box colors available for a total of 6 color combinations to choose from. Different color combinations can be freely chosen depending on your purpose of use.

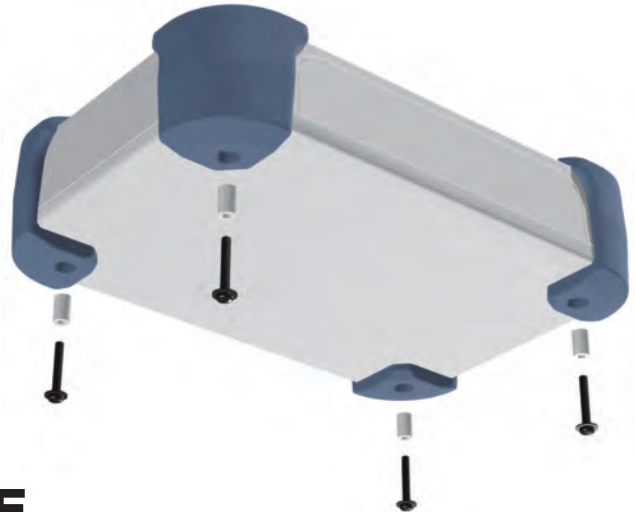


HOW TO ASSEMBLE CORNER GUARDS

1. Insert corner guards into designated holes on the top corners.



2. Insert spacers into the holes on the bottom of corner guards. Fasten bottom base and corner guards together with screws.



APPLICATION EXAMPLE

Industrial Tablet



Medical Equipment



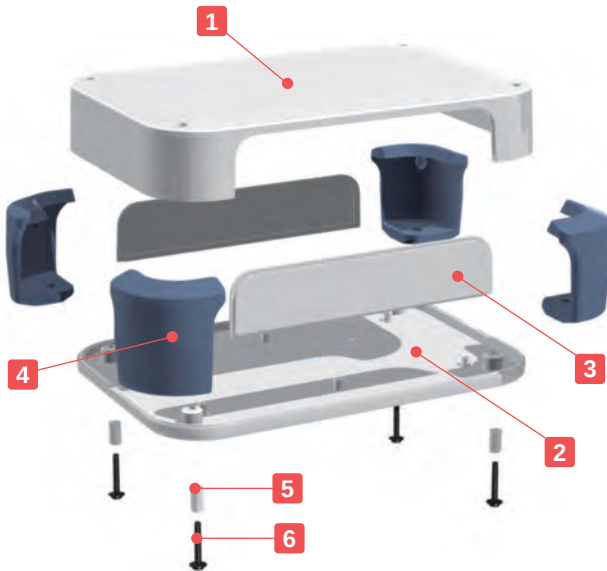
Network Device





Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C



- Network plastic box attached with shockproof silicone corner guards.
- Suitable for industrial tablet, measuring equipment, controller and various other applications.
- A total of 6 color combinations available with 3 corner guard colors - Dark gray, Emerald, Indigo - and 2 plastic box colors - Dark gray and Off-white.

Components

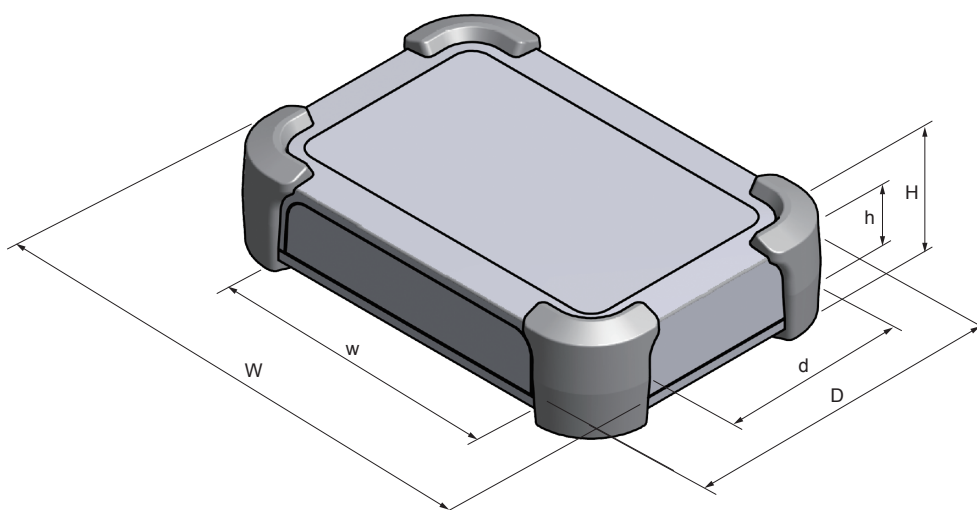
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Dark gray
2	Bottom base	1	ABS UL94V-0	Off-white • Dark gray
3	Panel	2	ABS UL94V-0	Off-white • Dark gray
4	Corner guard	4	Silicone	Dark gray • Emerald • Indigo
5	Spacer	4	PA	White
6	Self-tapping screw	4	Steel	Nickel plated

Color Type

Code	D D Dark gray / Dark gray	D E Dark gray / Emerald	D I Dark gray / Indigo
Color			
Code	W D Off-white / Dark gray	W E Off-white / Emerald	W I Off-white / Indigo
Color			

PFG dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions			Weight (g)
	W	H	D	w	h	d	
PFG20-4-13 □□	208 (200)	51 (40)	143 (135)	151.6	27.3	124.4	346
PFG20-4-20 □□	208 (200)	51 (40)	208 (200)	151.6	27.3	189.4	450
PFG24-6-17 □□	248 (240)	71.5 (60)	173 (165)	187.6	47	153.2	520
PFG24-6-24 □□	248 (240)	71.5 (60)	248 (240)	187.6	47	228.2	696.5

■ () value = enclosure dimension.

Accessories (Optional parts)



Embedded battery box BC series
See page 381 ~ 383



Tapping standoff TPS series
See page 397



PCB mounting screw EM series
See page 398



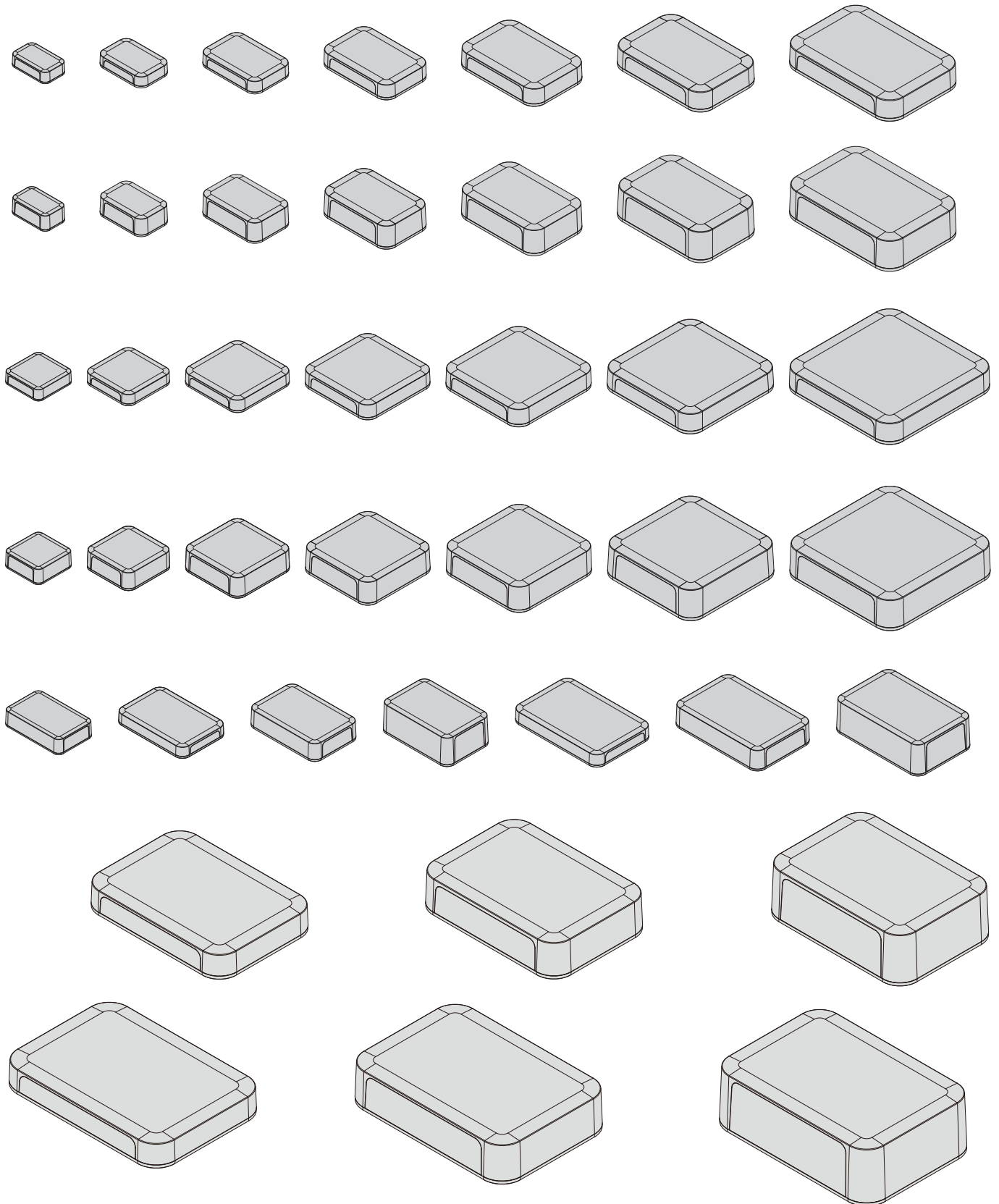
Tilt leg TLW series
See page 239

PF series **FLAT NETWORK CASE**

Huge selection, 41 different sizes are now available.

Suitable for IoT device, data transmitter/receiver, and access point.

From 80 x 50 x 22.5 to 320 x 225 x 100 mm.

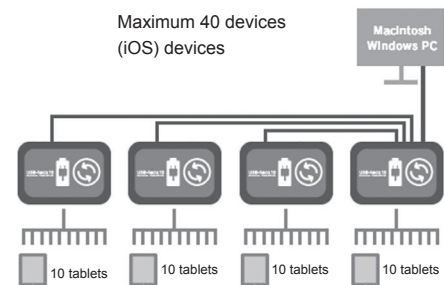


APPLICATION EXAMPLE

WiFi Access Point



USB Power Charging Hub + Data Hub



Simultaneous power charging and data transfer is possible.

Front Door Electric Opener System Controller



USB Hemodynamic Research Device



Multi Channel Data Logger



Storage Battery Monitoring System

Wireless CO₂ Monitoring System



Wireless Home Electronics Controller



Wireless Safety Confirmation System



G4 Flight Tracker



Advanced Trigger Station



iCONSE-T IoT and Sensor Network Training System



Wireless Network Data Logger



Analog Serial Converter



"SenSu" Communication Unit with Sensor



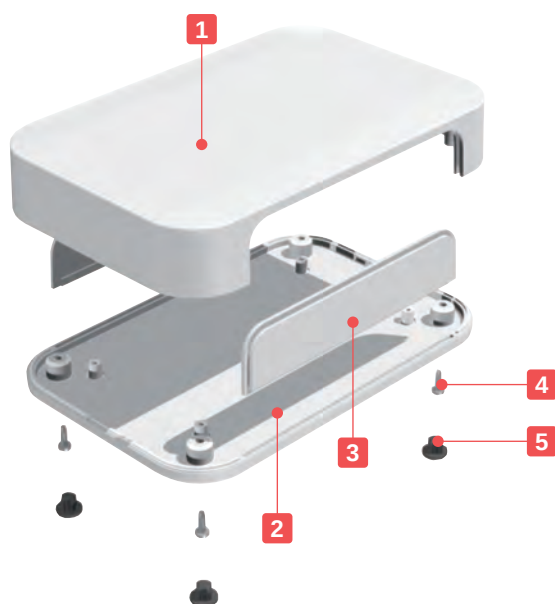
Modbus Converter





Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C



- A total of 41 different sizes available for selection.
- Flat designed plastic case with detachable panels.
- Made of flame-resistant ABS UL94V-0 and available in Off-white and Dark gray colors.
- Equipped with built-in bosses for PCB mounting.
- Suitable for Wi-Fi access point, measuring equipment, controller and various other applications.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white • Dark gray
2	Bottom base	1	ABS UL94V-0	Off-white • Dark gray
3	Panel	2	ABS UL94V-0	Off-white • Dark gray
4	Self-tapping screw	4	Steel	Nickel plated
5	Rubber feet*	4	Elastomer UL94HB	Dark gray

*Rubber feet are not included in PF8-□-5, PF8-□-8, PF8-3-13 models.

Accessories (Optional parts)



Embedded battery box BC series
See page 381 ~ 383



Tapping standoff TPS series
See page 397



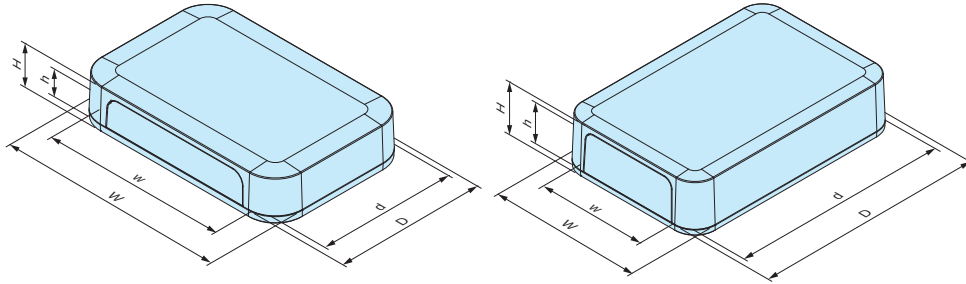
PCB mounting screw EM series
See page 398



Suspension bracket WM series
See page 391

PF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.		External dimensions			Internal dimensions			Weight (g)
● Off-white	● Dark gray	W	H	D	w	h	d	
PF 8- 2- 5W	PF 8- 2- 5D	80	22.5	50	55.5	13.5	42.8	36.2
PF 8- 2- 8W	PF 8- 2- 8D	80	22.5	80	55.5	13.5	72.8	53.3
PF 8- 3- 5W	PF 8- 3- 5D	80	30	50	55.5	21	42.3	41.6
PF 8- 3- 8W	PF 8- 3- 8D	80	30	80	55.5	21	72.3	60.1
PF 8- 3-13W	PF 8- 3-13D	80	30	125	55.5	21	117.3	87.3
PF10- 2- 7W	PF10- 2- 7D	100	22.5	67	67.4	11.1	58.4	60
PF10- 2-10W	PF10- 2-10D	100	22.5	100	67.4	11.1	91.4	82.9
PF10- 2-15W	PF10- 2-15D	100	22.5	150	67.4	11.1	141.4	120.2
PF10- 4- 7W	PF10- 4- 7D	100	35	67	67.4	23.6	57.5	65
PF10- 4-10W	PF10- 4-10D	100	35	100	67.4	23.6	90.5	97.1
PF10- 4-15W	PF10- 4-15D	100	35	150	67.4	23.6	140.5	132.6
PF10- 6-15W	PF10- 6-15D	100	55	150	67.4	43.6	139.1	169.1
PF13- 3- 9W	PF13- 3- 9D	125	25	85	92.4	13.5	76.2	90.8
PF13- 3-13W	PF13- 3-13D	125	25	125	92.4	13.5	116.2	127.5
PF13- 3-19W	PF13- 3-19D	125	25	190	92.4	13.5	181.2	186.8
PF13- 4- 9W	PF13- 4- 9D	125	40	85	92.4	28.5	75.2	108.4
PF13- 4-13W	PF13- 4-13D	125	40	125	92.4	28.5	115.2	151.4
PF13- 4-19W	PF13- 4-19D	125	40	190	92.4	28.5	180.2	214.9
PF13- 6-19W	PF13- 6-19D	125	60	190	92.4	48.5	178.8	250.4
PF15- 3-10W	PF15- 3-10D	150	30	100	112.4	17.8	90	145.5
PF15- 3-15W	PF15- 3-15D	150	30	150	112.4	17.8	140	207.5
PF15- 5-10W	PF15- 5-10D	150	45	100	112.4	32.8	88.9	166
PF15- 5-15W	PF15- 5-15D	150	45	150	112.4	32.8	138.9	233.5
PF18- 4-12W	PF18- 4-12D	175	35	120	132.4	22.4	110.3	188.7
PF18- 4-18W	PF18- 4-18D	175	35	175	132.4	22.4	165.3	266.8
PF18- 5-12W	PF18- 5-12D	175	50	120	132.4	37.4	109.3	213.6
PF18- 5-18W	PF18- 5-18D	175	50	175	132.4	37.4	164.3	302.1
PF20- 4-13W	PF20- 4-13D	200	40	135	151.6	27.3	124.4	264
PF20- 4-20W	PF20- 4-20D	200	40	200	151.6	27.3	189.4	368.5
PF20- 6-13W	PF20- 6-13D	200	60	135	151.6	47.3	123	302.5
PF20- 6-20W	PF20- 6-20D	200	60	200	151.6	47.3	188	417
PF24- 4-17W	PF24- 4-17D	240	42.5	165	187.6	29.5	154.5	370.4
PF24- 4-24W	PF24- 4-24D	240	42.5	240	187.6	29.5	229.5	521.4
PF24- 6-17W	PF24- 6-17D	240	60	165	187.6	47	153.2	408.8
PF24- 6-24W	PF24- 6-24D	240	60	240	187.6	47	228.2	568.7
PF28- 5-20W	PF28- 5-20D	280	45	200	223.6	31.4	189.3	564.1
PF28- 7-20W	PF28- 7-20D	280	65	200	223.6	51.4	187.9	618.4
PF28- 9-20W	PF28- 9-20D	280	90	200	223.6	76.4	186.2	709.2
PF32- 5-23W	PF32- 5-23D	320	45	225	259.6	31.3	214.3	697.1
PF32- 7-23W	PF32- 7-23D	320	70	225	259.6	56.3	212.6	782.1
PF32-10-23W	PF32-10-23D	320	100	225	259.6	86.3	210.5	899.8

* H dimension does not include the height of rubber feet. (Rubber feet height = +2mm)

EMC
Shielding

- PFE series is an EMC shielded version of the PF series network plastic box coated internally with DOTITE conductive paint (acrylic paint mixed with nickel filler).
- Flat designed plastic case with detachable panels.
- Made of flame-resistant ABS UL94V-0.
- Equipped with built-in bosses for PCB mounting.
- Suitable for Wi-Fi access point, measuring equipment, controller or various other applications for desktop, wall mounting use and more.

Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C

Components

No.	Part name	Pcs	Material	Color / Finish	Conductive paint
1	Top cover	1	ABS UL94V-0	Off-white	DOTITE
2	Bottom base	1	ABS UL94V-0	Off-white	DOTITE
3	Panel	2	ABS UL94V-0	Off-white	DOTITE
4	Self-tapping screw	4	Steel	Nickel plated	—
5	Rubber feet	4	Elastomer	Dark gray	—

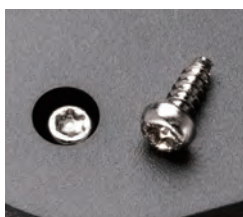
Accessories (Optional parts)



Tapping standoff TPS series
See page 397



PCB mounting screw EM series
See page 398



TORX screw MR series
See page 398



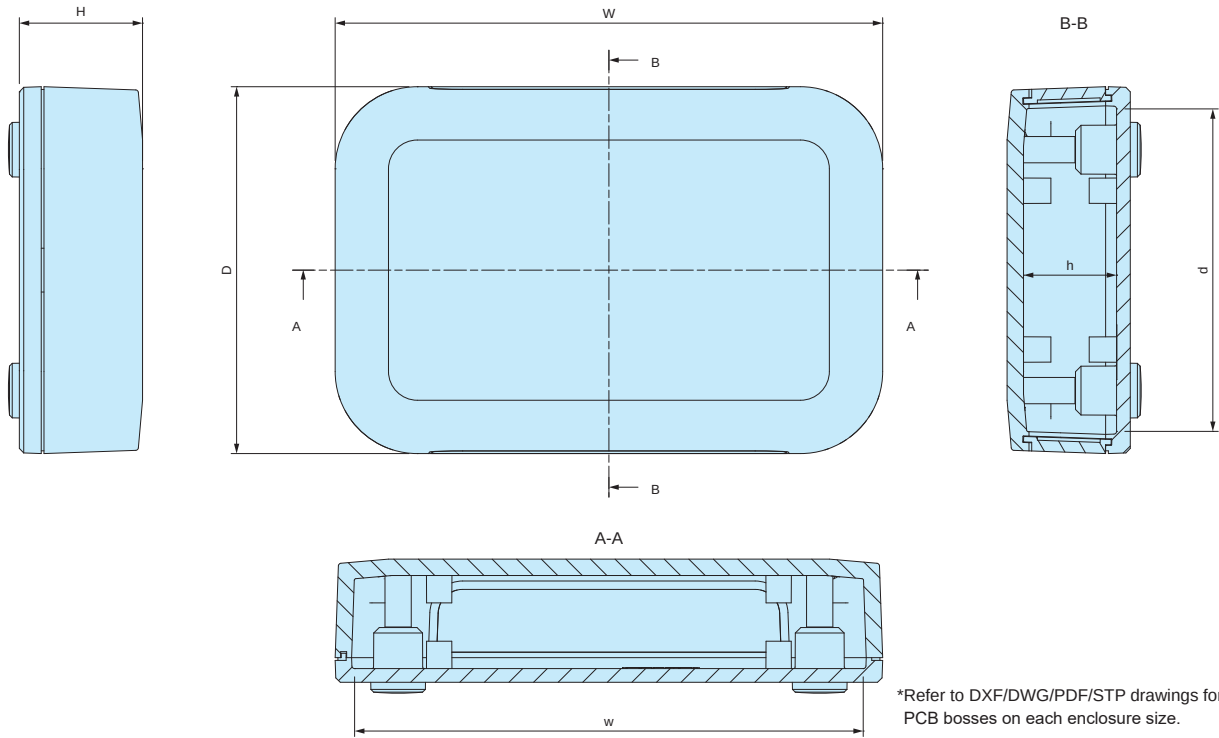
Suspension bracket WM series
See page 391



Embedded battery box BC series
See page 381 ~ 383

PFE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



*Refer to DXF/DWG/PDF/STP drawings for number of PCB bosses on each enclosure size.

Product no. / Details

*H dimension does not include the height of rubber feet. (Rubber feet height = +2mm)

Product no.	External dimensions			Internal dimensions			Screw	Weight (g)
	W	H	D	w	h	d		
PFE13-4- 9W	125	40	85	116	75	34.5	M2.5-8 x 4 pcs	114
PFE15-3-10W	150	30	100	142	90	24	M2.5-8 x 4 pcs	152
PFE15-5-15W	150	45	150	141	139	39	M2.5-8 x 4 pcs	244.5
PFE20-4-13W	200	40	135	191.5	124.5	34	M3-8 x 4 pcs	274.5

Accessories (Optional parts)

PFRF series

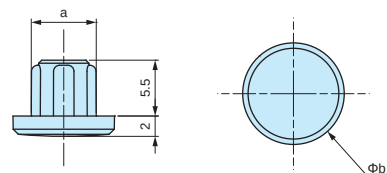
RUBBER FEET for PF • PFE



- Rubber feet for PF • PFE series.
- Inserted into the screw holes on the underside of box.
- Elastomer material is resistant against color migration.
- PF • PFE boxes comes with PFRF rubber feet. Utilize PFRF as spare or replacement.

PFRF dimensions

■ STP drawings available on our website.



Product no. / Details

Product no.	Dimensions		Suitable models	Material	Color	Pack of
	a	b				
PFRF-M2.5D	6.4	10	PF10-2-7,10-2-10,10-2-15,10-4-7,10-4-10,10-4-15 PF10-6-15,13-3-9,13-3-13,13-3-19,13-4-9,13-4-13 PF13-4-19,13-6-19,15-3-10,15-3-15,15-5-10,15-5-15 PF18-4-12,18-4-18,18-5-12,18-5-18 PFE13-4-9,15-3-10,15-5-15	Elastomer	Dark gray	4
PFRF-M3D	7.2	11	PF20-4-13,20-4-20,20-6-13,20-6-20,24-4-17 PF24-4-24,24-6-17,24-6-24,28-5-20,28-7-20 PF28-9-20,32-5-23,32-7-23,32-10-23 PFE20-4-13	Elastomer	Dark gray	4

PFF series

FLANGED NETWORK PLASTIC BOX



Technical Data	
Protection class:	IP40
Operating temperature:	-10°C ~ +60°C

- PF plastic case with wall mounting flange bottom design.
- Made of flame-resistant ABS UL94V-0 and available in Off-white color.
- Flat designed plastic case with detachable panels.
- Total of 30 different sizes available for selection.
- Suitable for wireless LAN, Wi-Fi access point, HUB, controller and other applications.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94V-0	Off-white
2	Flanged base	1	ABS UL94V-0	Off-white
3	Panel	2	ABS UL94V-0	Off-white
4	Self-tapping screw	4	Steel	Nickel plated

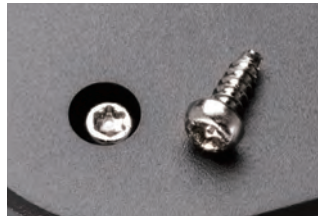
Accessories (Optional parts)



Tapping standoff TPS series
See page 397



PCB mounting screw EM series
See page 398



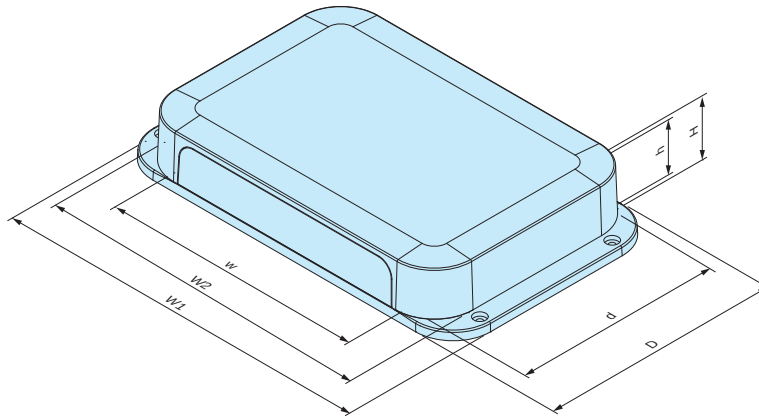
TORX screw MR series
See page 398



Adhesive standoff AST series
See page 394

PFF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions				Internal dimensions			Weight (g)
	W1	W2	H	D	w	h	d	
PFF10- 2- 7W	124.3	100	22.5	67.3	67.4	11.1	58.4	60.8
PFF10- 2-10W	124.3	100	22.5	100.3	67.4	11.1	91.4	84.6
PFF10- 4- 7W	124.3	100	35	67.3	67.4	23.6	57.5	72
PFF10- 4-10W	124.3	100	35	100.3	67.4	23.6	90.5	99.1
PFF13- 3- 9W	149.3	125	25	85.3	92.4	13.5	76.2	90.8
PFF13- 3-13W	155.3	125	25	125.3	92.4	13.5	116.2	128.6
PFF13- 4- 9W	149.3	125	40	85.3	92.4	28.5	75.2	108.4
PFF13- 4-13W	155.3	125	40	125.3	92.4	28.5	115.2	152.3
PFF15- 3-10W	180.4	150	30	100.4	112.4	17.8	90	145.2
PFF15- 3-15W	180.4	150	30	150.4	112.4	17.8	140	211.3
PFF15- 5-10W	180.4	150	45	100.4	112.4	32.8	88.9	168.6
PFF15- 5-15W	180.4	150	45	150.4	112.4	32.8	138.9	235
PFF18- 4-12W	205.4	175	35	120.4	132.4	22.4	110.3	192.1
PFF18- 4-18W	205.4	175	35	175.4	132.4	22.4	165.3	209.8
PFF18- 5-12W	205.4	175	50	120.4	132.4	37.4	109.3	215.8
PFF18- 5-18W	205.4	175	50	175.4	132.4	37.4	164.3	299.7
PFF20- 4-13W	230.5	200	40	135.5	151.6	27.3	124.4	267.7
PFF20- 4-20W	230.5	200	40	200.5	151.6	27.3	189.4	376
PFF20- 6-13W	230.5	200	60	135.5	151.6	47.3	123	309.7
PFF20- 6-20W	230.5	200	60	200.5	151.6	47.3	188	422.9
PFF24- 4-17W	270.5	240	42.5	165.5	187.6	29.5	154.5	366.9
PFF24- 4-24W	270.5	240	42.5	240.5	187.6	29.5	229.5	513.5
PFF24- 6-17W	270.5	240	60	165.5	187.6	47	153.2	403.8
PFF24- 6-24W	270.5	240	60	240.5	187.6	47	228.2	560.8
PFF28- 5-20W	310.5	280	45	200.5	223.2	31.4	189.3	547.5
PFF28- 7-20W	310.5	280	65	200.5	223.2	51.4	187.9	606.6
PFF28- 9-20W	310.5	280	90	200.5	223.2	76.4	186.2	694.1
PFF32- 5-23W	350.5	320	45	225.5	259.2	31.3	214.3	679.9
PFF32- 7-23W	350.5	320	70	225.5	259.2	56.3	212.6	767.4
PFF32-10-23W	350.5	320	100	225.5	259.2	86.3	210.5	887.4

TWF series

FLANGED PLASTIC ENCLOSURE

Multi-purpose flanged enclosure designed for use as a wall-mounted device/terminal.

23 different sizes in 2 colors available.

Recommended to be used as measurement instruments, wireless communication gadgets, controller devices and more.

APPLICATION EXAMPLE

EtherCAT Device



Solar Panel Charge Controller



Wireless RFID Tag Search Device



RFID Tag



CO₂ Sensor



Temperature • Humidity Sensor



**Remote Power
Control Unit**



**Communication
Converter**



Roof Sprinkler Controller



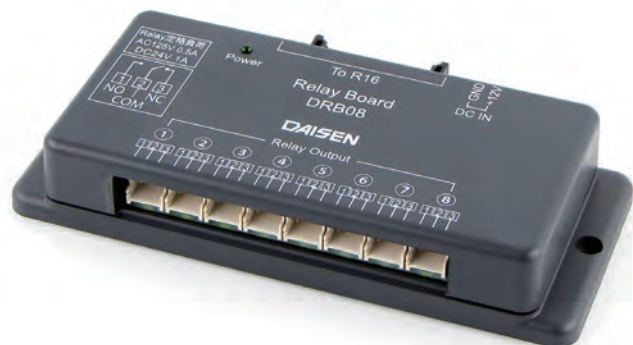
LED Lighting RGB Controller



Private LoRA Gateway



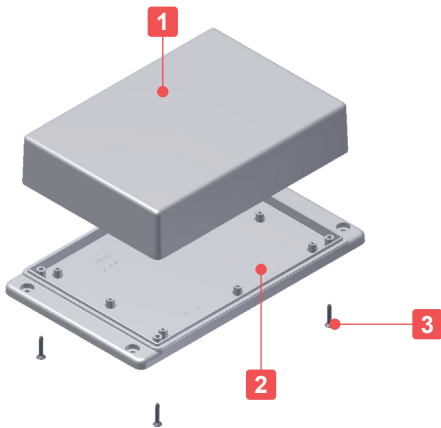
Contact Relay Output Converter





Technical Data

Protection class: IP40
Operating temperature: -10°C ~ +60°C



- Multi-purpose flanged enclosure designed for use as a wall-mounted device/terminal.
- 23 different sizes in 2 colors. Made of ABS UL94V-0.
- Equipped with screwing bosses for PCB.
- Recommended to be used as measurement instruments, wireless communication gadgets, controller devices and more.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	ABS UL94V-0	Off-white • Dark gray
2	Flanged base	1	ABS UL94V-0	Off-white • Dark gray
3	Self-tapping screw	2 / 4	Steel	Nickel plated • Black trivalent chromate

Accessories (Optional parts)



Tapping standoff TPS series
See page 397



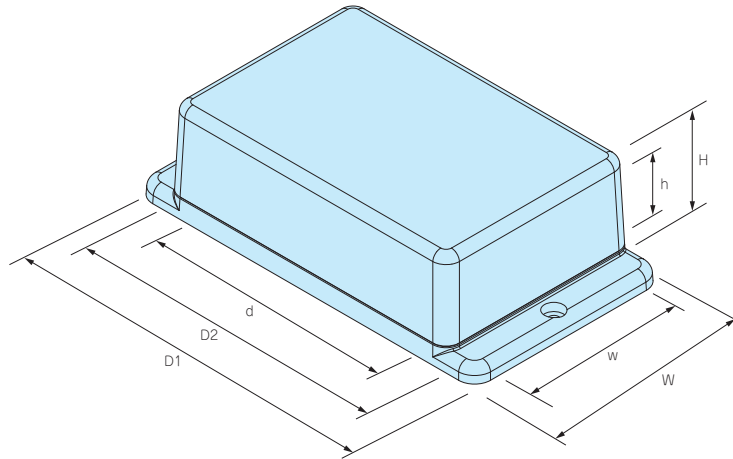
PCB mounting screw EM-2.3
See page 398



TORX screw MR series
See page 398

TWF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Color Type

Code	Cover	Flanged base	Screw
W	Off-white	Off-white	Nickel plated
D	Dark gray	Dark gray	Black trivalent chromate

Product no. / Details

Product no.		External dimensions				Internal dimensions			Screw	Weight (g)
● Off-white	● Dark gray	W	H	D1	D2	w	h	d		
TWF 4-2- 5W	TWF 4-2- 5D	35.4	22	70.4	50	27.2	13.2	32.4	M2.6-12 x 2 pcs	19.7
TWF 5-2- 5W	TWF 5-2- 5D	50.4	17	70.4	50	42.7	8	31.9	M2.6-12 x 4 pcs	21.5
TWF 5-2- 7W	TWF 5-2- 7D	50.4	17	90.4	70	43.1	8	52.9	M2.6-12 x 4 pcs	29
TWF 5-3- 5W	TWF 5-3- 5D	50.4	27	70.4	50	42.7	18	31.9	M2.6-12 x 4 pcs	26.5
TWF 5-3- 7W	TWF 5-3- 7D	50.4	29.5	90.4	70	43.1	20.5	52.9	M2.6-12 x 4 pcs	36
TWF 5-3- 9W	TWF 5-3- 9D	45.6	27.5	111	90	37.2	17.5	70.4	M2.6-12 x 4 pcs	43
TWF 5-4- 7W	TWF 5-4- 7D	50.4	42	90.4	70	42.5	33	52.9	M2.6-12 x 4 pcs	43.5
TWF 7-2-11W	TWF 7-2-11D	70.6	20.5	127	105	61.4	10.5	83	M2.6-12 x 4 pcs	66.5
TWF 7-3-13W	TWF 7-3-13D	65.5	25.5	150	130	57.7	14.2	105	M3 -16 x 4 pcs	87
TWF 7-4-11W	TWF 7-4-11D	70.6	35.5	127	105	61.4	25.5	83	M2.6-12 x 4 pcs	82
TWF 7-5-11W	TWF 7-5-11D	70.6	50.5	127	105	61.1	40.5	83	M2.6-12 x 4 pcs	96.5
TWF 7-5-13W	TWF 7-5-13D	65.5	50	150	130	55.9	38.7	105	M3 -16 x 4 pcs	114
TWF 8-2- 8W	TWF 8-2- 8D	80.6	23.5	100.6	80	71.5	13.5	59	M2.6-12 x 4 pcs	62
TWF 8-4- 8W	TWF 8-4- 8D	80.6	43.5	100.6	80	71.5	33.5	59	M2.6-12 x 4 pcs	82
TWF 9-4-17W	TWF 9-4-17D	86	35	190	170	76.5	23.7	143	M3 -16 x 4 pcs	150
TWF 9-6-17W	TWF 9-6-17D	86	60	190	170	75.7	48.7	143	M3 -16 x 4 pcs	184
TWF11-5-22W	TWF11-5-22D	110.3	45	250.6	220	100.8	33.7	191	M3 -16 x 4 pcs	250
TWF11-8-22W	TWF11-8-22D	110.3	75	250.6	220	99.3	63.7	191	M3 -16 x 4 pcs	303
TWF13-3-13W	TWF13-3-13D	125.6	25	155.6	125	114.5	13.7	100	M3 -16 x 4 pcs	155
TWF13-3-18W	TWF13-3-18D	125.6	25	205.6	175	114.5	13.7	148	M3 -16 x 4 pcs	199
TWF13-5-13W	TWF13-5-13D	125.6	45	155.6	125	114.5	33.7	100	M3 -16 x 4 pcs	189
TWF13-5-18W	TWF13-5-18D	125.6	45	205.6	175	114.5	33.7	148	M3 -16 x 4 pcs	242
TWF13-7-18W	TWF13-7-18D	125.6	65	205.6	175	114.2	53.7	148	M3 -16 x 4 pcs	281

TWS series

PLASTIC ENCLOSURE with SILICONE PROTECTOR

Universal plastic enclosure with protective silicone protectors which functions both as an anti-slip grip and impact protection. Available in 9 sizes and selectable in 8 different color combinations. Suitable for measuring instruments, wireless communication devices, portable controller, data logger, and more.

APPLICATION EXAMPLE

Digital Power Amplifier



GPS Data Logger



6 Channel Data Logger



Battery Voltage Recorder



Tester for Photovoltaic System



Solar Cell Bypass Diode Checker



PV Insulation Resistance Checker for Solar Cell



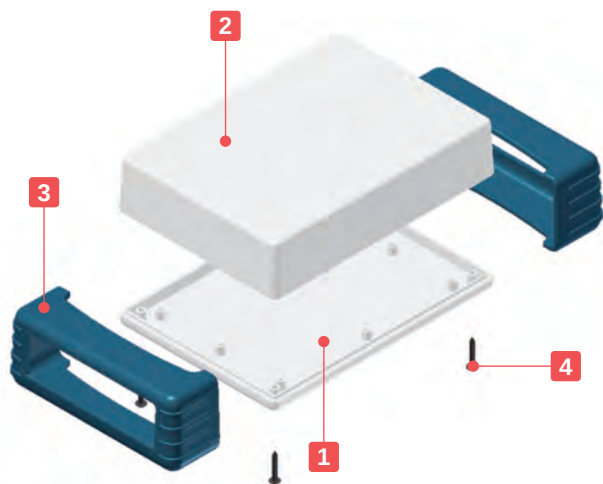
Vibration Monitor





Technical Data

Protection class : IP40
Operating temperature : -10°C ~ +60°C



- Universal plastic enclosure with protective silicone protectors which functions both as an anti-slip grip and impact protection.
- Available in 9 sizes and selectable in 8 different color combinations.
- Enclosure is in B (Black - ABS UL94HB) and W (Off-white - ABS UL94V-0) model.
- Plastic case and protective silicone with screw fastening.
*Note: utilize screws packaged with the silicone protectors for assembly.
- Use caution when assembling. Overtightening may damage the enclosure and silicone protectors.
- Custom color silicone protector is available from just 1 set. For 500 sets or more, manufacturing costs will be similar to a standard color. Please inquire for more details.

Components

No.	Part name	Pcs	Material : Color / Finish
1	Cover	1	ABS UL94HB : Black • ABS UL94V-0 : Off-white
2	Bottom base	1	ABS UL94HB : Black • ABS UL94V-0 : Off-white
3	Silicone protector	2	Silicone : Yellow • Navy • Light gray • Black
4	Self-tapping screw	4	Steel M3-20 / Black trivalent chromate

Accessories (Optional parts)



Embedded battery box BC series
See page 381 ~ 383



Adhesive standoff AST series
See page 394



Tapping standoff TPS series
See page 397



PCB mounting screw EM series
See page 398

Color Type

Code	B Y Black / Yellow	B N Black / Navy	B L Black / Light gray	B B Black / Black
Color				
Code	W Y Off-white / Yellow	W N Off-white / Navy	W L Off-white / Light gray	W B Off-white / Black
Color				

ABS UL94HB (Black enclosure)

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	Weight (g)
TWS 7-3-13B□	71 (65)	32 (25.6)	136 (130)	117
TWS 7-5-13B□	71 (65)	56 (50.1)	136 (130)	147.5
TWS 9-4-17B□	91.5 (85.5)	41.5 (35.5)	176 (170)	193
TWS 9-6-17B□	91.5 (85.5)	66.5 (60.5)	176 (170)	243
TWS11-5-22B□	116 (110)	51.5 (45.3)	226 (220)	325.5
TWS11-8-22B□	116 (110)	81.5 (75.3)	226 (220)	399
TWS13-5-13B□	131 (125)	51 (45)	131 (125)	269.5
TWS13-5-18B□	131 (125)	51 (45)	181 (175)	322
TWS13-7-18B□	131 (125)	71 (65)	181 (175)	371

■ () value = enclosure dimension.

ABS UL94V-0 (Off-white enclosure)

Product no. / Details

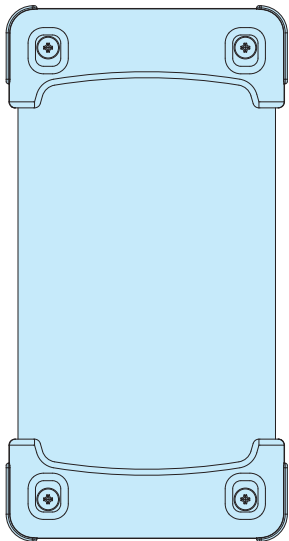
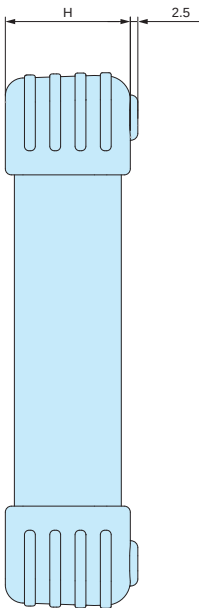
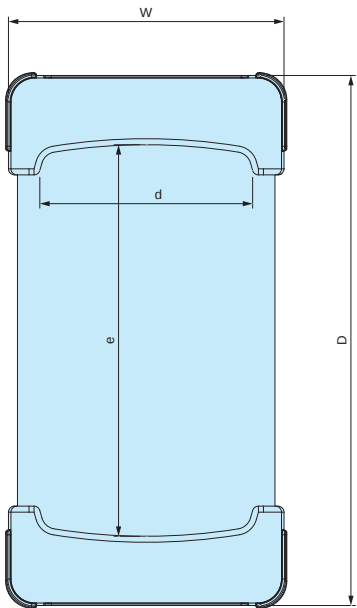
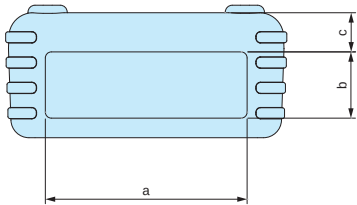
■ Please suffix color code at the end of the product number.

Product no.	W	H	D	Weight (g)
TWS 7-3-13W□	71 (65)	32 (25.6)	136 (130)	126
TWS 7-5-13W□	71 (65)	56 (50.1)	136 (130)	163
TWS 9-4-17W□	91.5 (85.5)	41.5 (35.5)	176 (170)	211
TWS 9-6-17W□	91.5 (85.5)	66.5 (60.5)	176 (170)	266
TWS11-5-22W□	116 (110)	51.5 (45.3)	226 (220)	356.5
TWS11-8-22W□	116 (110)	81.5 (75.3)	226 (220)	438
TWS13-5-13W□	131 (125)	51 (45)	131 (125)	294
TWS13-5-18W□	131 (125)	51 (45)	181 (175)	353
TWS13-7-18W□	131 (125)	71 (65)	181 (175)	407.5

■ () value = enclosure dimension.

TWS dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

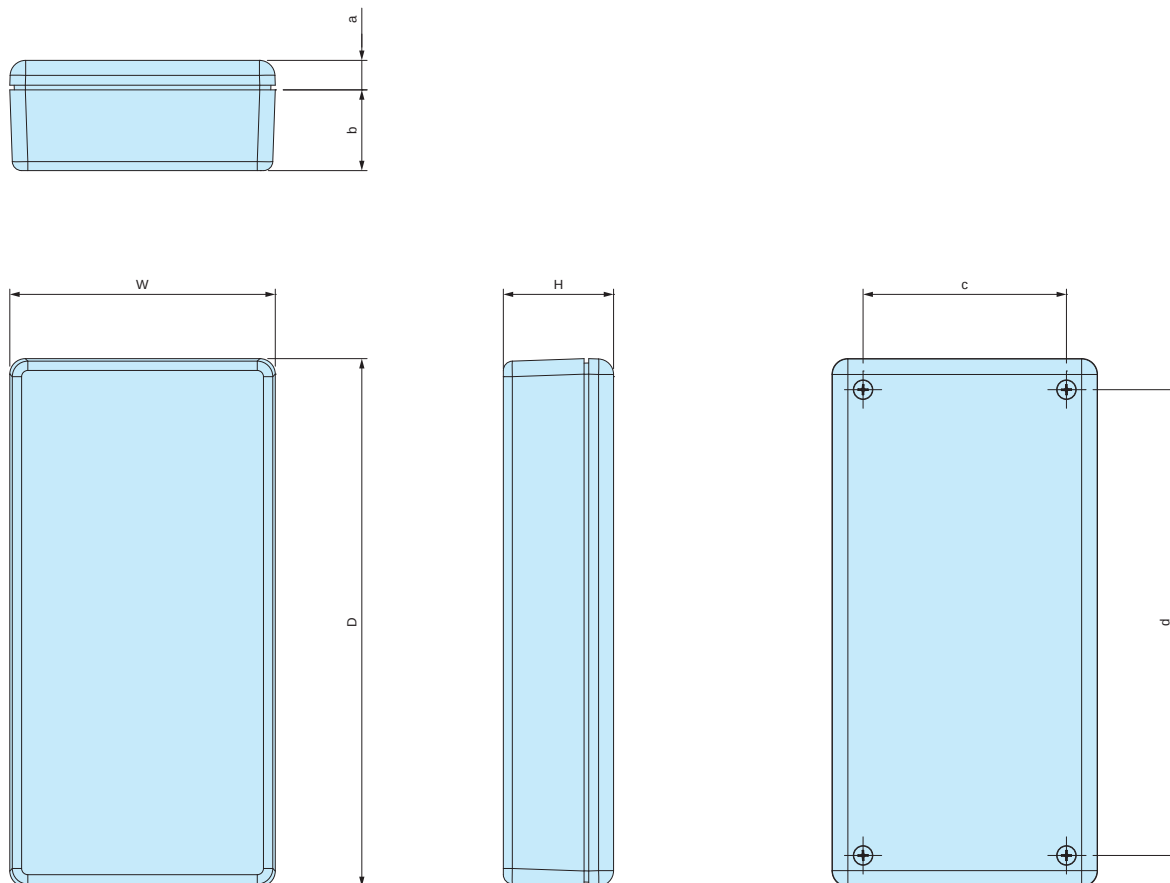


■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d	e
TWS 7-3-13□□	71	32	136	52	13.5	11.8	54	98
TWS 7-5-13□□	71	56	136	52	37.5	11.9	54	98
TWS 9-4-17□□	91.5	41.5	176	67	22	13	71	130
TWS 9-6-17□□	91.5	66.5	176	67	46.5	13.3	71	130
TWS11-5-22□□	116	51.5	226	80	29	14.3	89	166
TWS11-8-22□□	116	81.5	226	80	58	14.5	89	166
TWS13-5-13□□	131	51	131	101	29.5	13.5	104	76
TWS13-5-18□□	131	51	181	101	29.5	13.5	104	126
TWS13-7-18□□	131	71	181	101	48.5	14	104	126

Enclosure dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



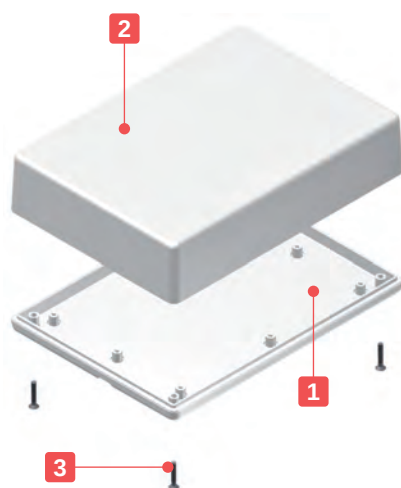
■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	d
TWS 7-3-13□□	65	25.6	130	8.1	17.5	47	112
TWS 7-5-13□□	65	50.1	130	8.1	42	47	112
TWS 9-4-17□□	85.5	35.5	170	9.5	26	65.5	150
TWS 9-6-17□□	85.5	60.5	170	9.5	51	65.5	150
TWS11-5-22□□	110	45.3	220	10.3	35	88	198
TWS11-8-22□□	110	75.3	220	10.3	65	88	198
TWS13-5-13□□	125	45	125	8.5	36.5	107	107
TWS13-5-18□□	125	45	175	8.5	36.5	105	155
TWS13-7-18□□	125	65	175	8.5	56.5	105	155



Technical Data

Protection class : IP40
Operating temperature : -10°C ~ +60°C



- Universal plastic enclosure with screw fastening.
- 26 sizes are available in 2 colors; Black (ABS UL94HB) and Off-white (ABS UL94V-0).
- Suitable for measuring instruments, testing devices, wireless communication devices, medical devices, and more.

Components

No.	Part name	Pcs	Material : Color / Finish
1	Cover	1	TW : ABSUL94HB / Black
			TWN : ABS UL94V-0 / Off-white
2	Bottom base	1	TW : ABSUL94HB / Black
			TWN : ABS UL94V-0 / Off-white
3	Self-tapping screw	2 or 4	TW : Steel / Black trivalent chromate
			TWN : Steel / Nickel plated

Accessories (Optional parts)



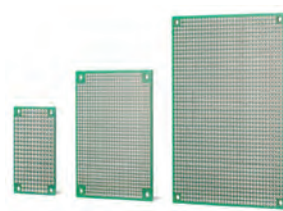
Silicone band SIB series
See page 90



Suspension bracket WM series
See page 391



Embedded battery box BC series
See page 381 ~ 383



Universal PCB PCB series
See website



Adhesive standoff AST series
See page 394



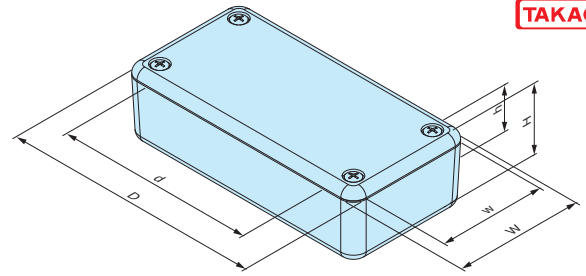
PCB mounting screw EM series
See page 398



Tapping standoff TPS series
See page 397

Color Type

Series	Code	Color	Screw
TW	B	Black	Black trivalent chromate
TWN	W	Off-white	Nickel plated



TW series (ABS UL94HB)

■ DXF/DWG/PDF/STP drawings available on our website.

Product no. / Details

Product no.	External dimensions			Internal dimensions			Screw (Self-tapping flat head)	Weight (g)
	W	H	D	w	h	d		
TW 4-2- 5B	35	20	50	28.2	12	32.6	M2.6-12 x 2 pcs	13.5
TW 4-2- 6B	35	20	60	28.2	12	42.6	M2.6-12 x 2 pcs	15.5
TW 4-2- 8B	40.3	20	80.3	33.5	12	62.5	M2.6-12 x 2 pcs	22
TW 5-2- 5B	50	15	50	42.8	7	31.9	M2.6-12 x 4 pcs	18
TW 5-2- 7B	50	15	70	43.2	7	52.9	M2.6-12 x 4 pcs	22
TW 5-3- 5B	50	25	50	42.8	17	31.9	M2.6-12 x 4 pcs	22
TW 5-3- 7B	50	27.5	70	43.2	19.5	52.9	M2.6-12 x 4 pcs	29
TW 5-3- 9B	45	25	90	37.7	16	69.4	M3-12 x 4 pcs	30.5
TW 5-3-10B	50	30	100	42.4	20.8	80.8	M2.6-12 x 4 pcs	41.5
TW 5-4- 7B	50	40	70	42.5	32	52.9	M2.6-12 x 4 pcs	35
TW 7-2-11B	70	20	105	61.2	10.5	83	M2.6-14 x 4 pcs	56.5
TW 7-3-13B	65	25.6	130	55.3	14.3	105	M3-16 x 4 pcs	76
TW 7-4-11B	70	35	105	61.2	25.5	83	M2.6-14 x 4 pcs	70
TW 7-5-11B	70	50	105	61.1	40.5	83	M2.6-14 x 4 pcs	83
TW 7-5-13B	65	50.1	130	55.3	38.8	105	M3-16 x 4 pcs	100
TW 8-2- 8B	80	20	80	71.6	10.5	59	M2.6-12 x 4 pcs	49
TW 8-4- 8B	80	40	80	71.6	30.5	59	M2.6-12 x 4 pcs	65
TW 9-4-17B	85.5	35.5	170	75.7	24	143	M3-16 x 4 pcs	133
TW 9-6-17B	85.5	60.5	170	75.7	49	143	M3-16 x 4 pcs	168
TW11-5-22B	110	45.3	220	100.1	33.8	191	M3-16 x 4 pcs	223
TW11-8-22B	110	75.3	220	99.3	63.8	191	M3-16 x 4 pcs	277
TW13-3-13B	125	25	125	114.5	13.7	100	M3-16 x 4 pcs	135
TW13-3-18B	125	25	175	114.5	13.7	148	M3-16 x 4 pcs	184.5
TW13-5-13B	125	45	125	114.5	33.7	100	M3-16 x 4 pcs	165.5
TW13-5-18B	125	45	175	114.5	33.7	148	M3-16 x 4 pcs	218
TW13-7-18B	125	65	175	114.2	53.7	148	M3-16 x 4 pcs	254

TWN series (ABS UL94V-0)

Product no. / Details

Product no.	External dimensions			Internal dimensions			Screw (Self-tapping flat head)	Weight (g)
	W	H	D	w	h	d		
TWN 4-2- 5W	35	20	50	28.2	12	32.6	M2.6-12 x 2 pcs	16.5
TWN 4-2- 6W	35	20	60	28.2	12	42.6	M2.6-12 x 2 pcs	18
TWN 4-2- 8W	40.3	20	80.3	33.5	12	62.5	M2.6-12 x 2 pcs	26
TWN 5-2- 5W	50	15	50	42.8	7	31.9	M2.6-12 x 4 pcs	20
TWN 5-2- 7W	50	15	70	43.2	7	52.9	M2.6-12 x 4 pcs	24.5
TWN 5-3- 5W	50	25	50	42.8	17	31.9	M2.6-12 x 4 pcs	26
TWN 5-3- 7W	50	27.5	70	43.2	19.5	52.9	M2.6-12 x 4 pcs	33
TWN 5-3- 9W	45	25	90	37.7	16	69.4	M3-16 x 4 pcs	35
TWN 5-3-10W	50	30	100	42.4	20.8	80.8	M2.6-12 x 4 pcs	46.5
TWN 5-4- 7W	50	40	70	42.5	32	52.9	M2.6-12 x 4 pcs	39.5
TWN 7-2-11W	70	20	105	61.2	10.5	83	M2.6-14 x 4 pcs	64.5
TWN 7-3-13W	65	25.6	130	55.3	14.3	105	M3-16 x 4 pcs	85
TWN 7-4-11W	70	35	105	61.2	25.5	83	M2.6-14 x 4 pcs	80
TWN 7-5-11W	70	50	105	61.1	40.5	83	M2.6-14 x 4 pcs	94.5
TWN 7-5-13W	65	50.1	130	55.3	38.8	105	M3-16 x 4 pcs	115.5
TWN 8-2- 8W	80	20	80	71.6	10.5	59	M2.6-12 x 4 pcs	55.5
TWN 8-4- 8W	80	40	80	71.6	30.5	59	M2.6-12 x 4 pcs	75
TWN 9-4-17W	85.5	35.5	170	75.7	24	143	M3-16 x 4 pcs	151
TWN 9-6-17W	85.5	60.5	170	75.7	49	143	M3-16 x 4 pcs	191
TWN11-5-22W	110	45.3	220	100.1	33.8	191	M3-16 x 4 pcs	254
TWN11-8-22W	110	75.3	220	99.3	63.8	191	M3-16 x 4 pcs	316
TWN13-3-13W	125	25	125	114.5	13.7	100	M3-16 x 4 pcs	156.5
TWN13-3-18W	125	25	175	114.5	13.7	148	M3-16 x 4 pcs	206.5
TWN13-5-13W	125	45	125	114.5	33.7	100	M3-16 x 4 pcs	190
TWN13-5-18W	125	45	175	114.5	33.7	148	M3-16 x 4 pcs	249
TWN13-7-18W	125	65	175	114.2	53.7	148	M3-16 x 4 pcs	290.5

TWSC series

SILICONE PROTECTOR for TW•TWN

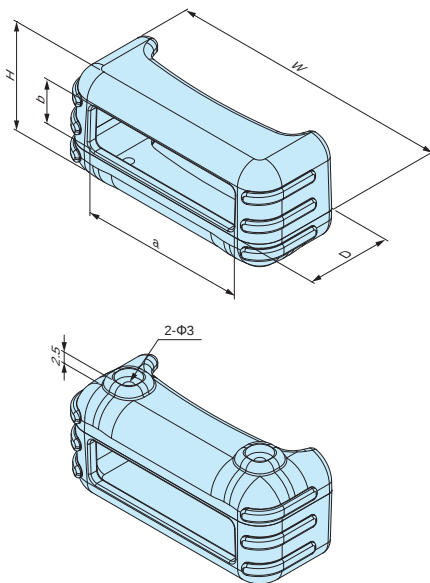
Color Type

Code	Y Yellow	N Navy	L Light gray	B Black
Color				

- Silicone Protector for TW and TWN series. Selectable in 4 colors.
- Available as a set of 2 pcs.
- Use caution when assembling. Overtightening may damage the enclosure and silicone protectors.

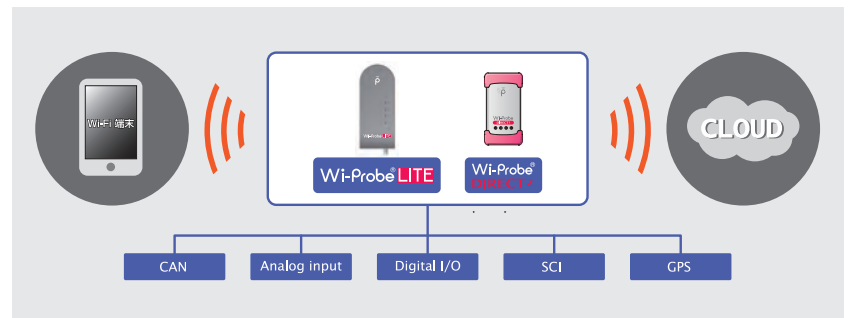
TWSC dimensions

■ DXF/DWG/PDF drawings available on our website.



APPLICATION EXAMPLE

Wi-Probe DIRECT2 Monitoring Device



*Pink shown above is custom color.

Components

Part name	Pcs	Material	Color / Finish
Silicone protector	1 set (2 pcs)	Silicone	Yellow • Navy • Light gray • Black
Self-tapping screw	4	Steel M3-20	Black trivalent chromate

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	Suitable models	Weight (g)
TWSC 7-3□	71	32	27	52	13.5	TW • TWN 7-3-13	41
TWSC 7-5□	71	56	27	52	37.5	TW • TWN 7-5-13	47.5
TWSC 9-4□	91.5	41.5	33	67	22	TW • TWN 9-4-17	60
TWSC 9-6□	91.5	66.5	33	67	46.5	TW • TWN 9-6-17	75
TWSC11-5□	116	51.5	40	80	29	TW • TWN11-5-22	102.5
TWSC11-8□	116	81.5	40	80	58	TW • TWN11-8-22	122
TWSC13-5□	131	51	38	101	29.5	TW • TWN13-5-13 TW • TWN13-5-18	104
TWSC13-7□	131	71	38	101	48.5	TW • TWN13-7-18	117

- Custom color is available from just 1 set. For 500 sets or more, manufacturing costs will be similar to a standard color. Please inquire for more details. For custom color order, please specify **PANTONE®** color code.



SIB series

SILICONE BAND

Utilization example

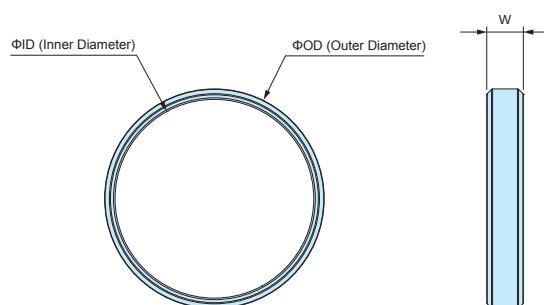


- Silicone band designed to fit TW and TWN series.
Refer to the table below for size suitability.
- Silicone band provides both shock resistance and non-slip grips for the TW & TWN enclosures.

Color Type

Code	R Red	O Orange	Y Yellow	G Green	C Cyan	N Navy	L Light gray	B Black
Color								

SIB dimensions



Components

Part name	Pcs	Material	Color
Silicone band	Pair (2 pcs)	Silicone	Red • Orange • Yellow • Green • Cyan • Navy • Light gray • Black

Product no. / Details

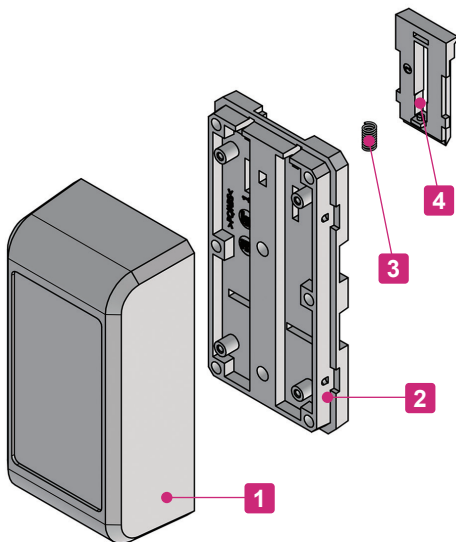
■ Please suffix color code at the end of the product number.

Product no.	W	ID	OD	Suitable models	Weight (g)
SIB-21□	6	21	25	TW • TWN4-2-5 • 4-2-6 • 4-2-8 • 5-2-5 • 5-2-7 • 5-3-9	2
SIB-38□	7	38	42	TW • TWN5-3-5 • 5-3-7 • 5-4-7 • 5-3-10 • 7-2-11 • 7-4-11 7-3-13 • 8-2-8	4
SIB-58□	8	58	63	TW • TWN7-5-11 • 7-5-13 • 8-4-8 • 9-4-17	10
SIB-72□	10	72	77	TW • TWN9-6-17 • 11-5-22 • 11-8-22 • 13-3-13 • 13-5-13 13-3-18 • 13-5-18 • 13-7-18	14



Technical Data

Operating temperature : -20°C ~ +60°C



- Plastic enclosure with mount bracket for 35mm DIN Rail.
- 3 new sizes added for a total of 4 different sizes available for selection.
- Toolless snap-in structure allows for quick and easy assembly.
- Simple installation and removal on a DIN Rail with the pull lever.
- Suitable for network module, controller, data logger and others.

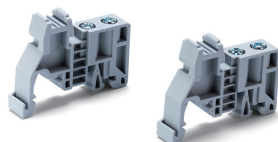
Components

No.	Part name	Pcs	Materials	Color / Finish
1	Cover	1	PC/ABS (UL94V-0)	Off-white
2	Base	1	PC/ABS (UL94V-0)	Off-white
3	Compression spring	1	SUS304	Unfinished
4	Lever	1	PC/ABS (UL94V-0)	Off-white

Accessories (Optional parts)



DIN Rail FDR series
See page 100



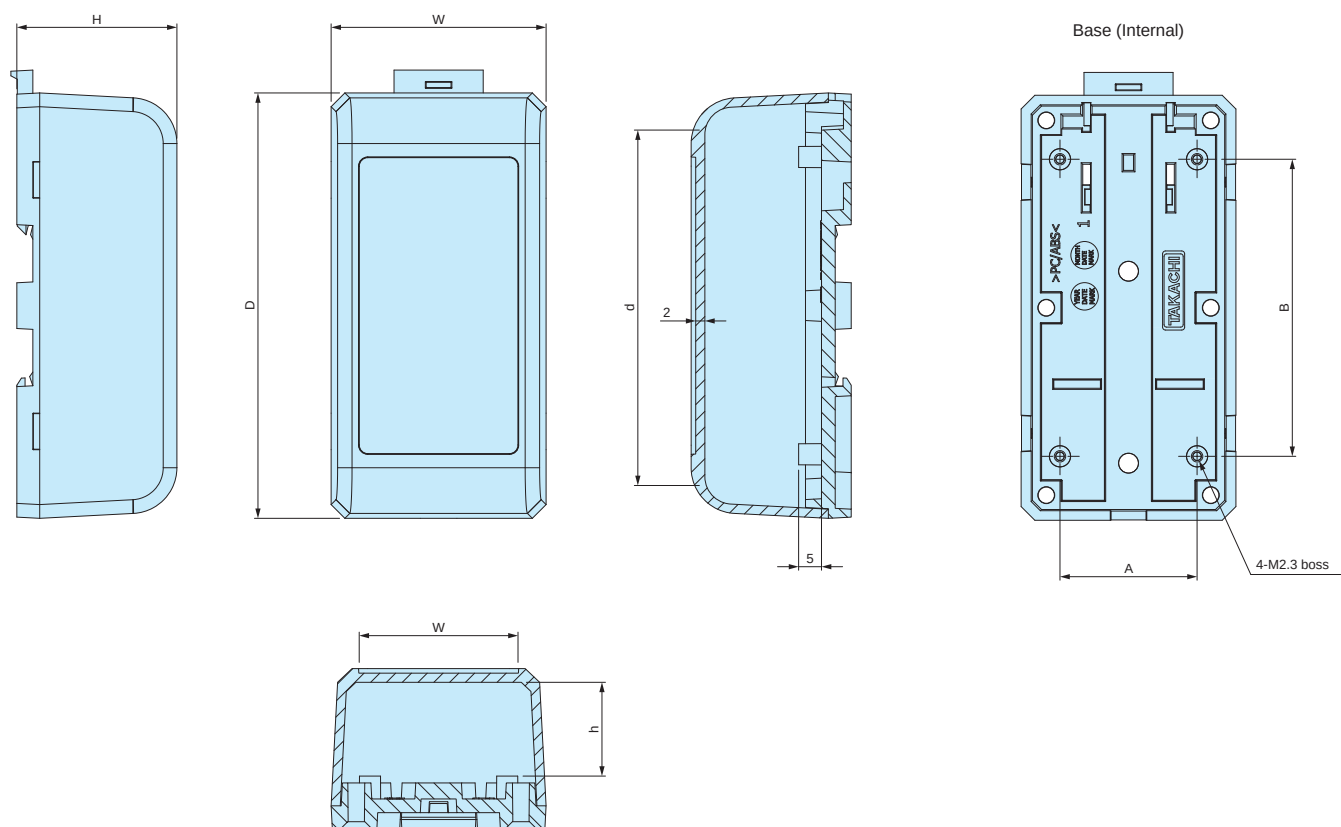
Economical DIN Rail end stopper
DRS series
See page 99



DIN Rail terminal block end stopper
TKR series
See page 99

DRC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions			Internal dimensions			Boss pitch		Weight (g)
	W	H	D	w	h	d	A	B	
NEW DRC4-4-9W	38	35	93	27	20.5	74.7	20	70	44.1
DRC5-4-9W	47	35	93	36	20.5	74.7	30	65	51.6
NEW DRC7-4-9W	65	35	93	54	20.5	74.7	45	65	65.4
NEW DRC9-4-9W	90	35	93	79	20.5	74.7	70	65	83.9

APPLICATION EXAMPLE



Controller

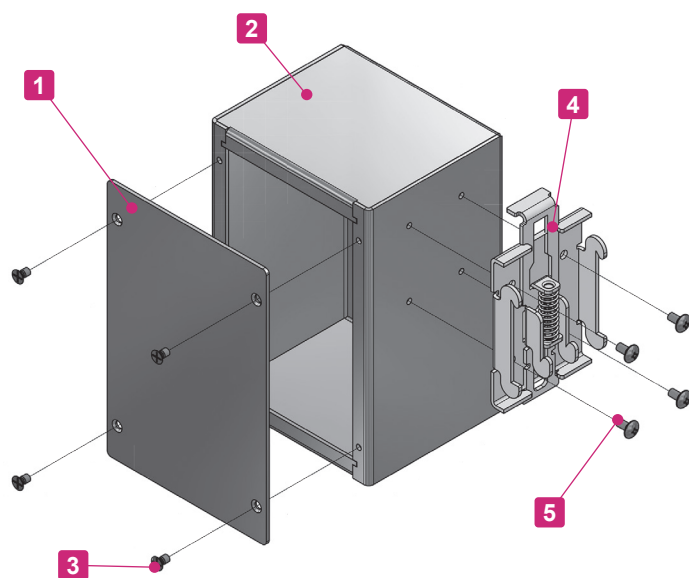


Network Module

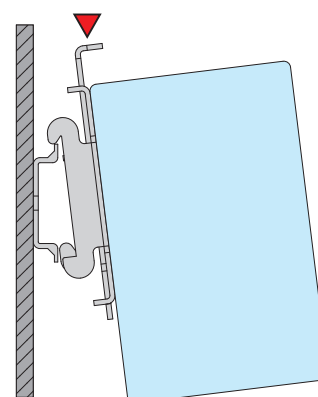


Technical Data

Max load : 3kg



- Aluminium enclosure with mount bracket for 35mm DIN Rail.
- Available in 6 different sizes.
- Conductive finish on internal surface for conductivity and grounding.
- Easy maintenance with detachable cover.
- Press the lever (denoted with a red sign below) when mounting / unmounting onto a DIN Rail.



Components

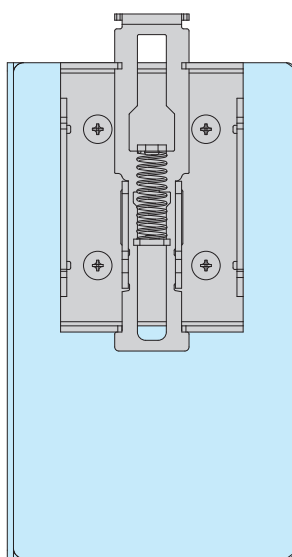
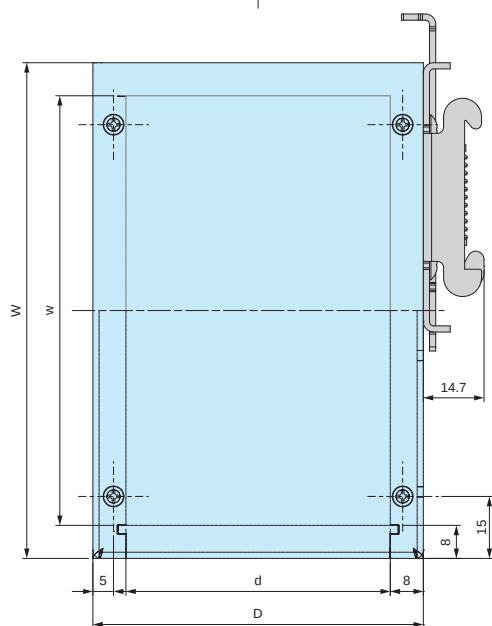
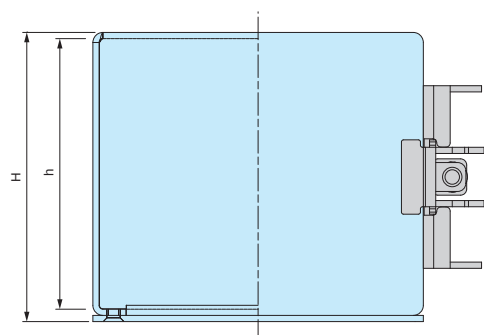
No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Aluminium A1100P t = 1.5	Metallic silver / Painted (Conductive inside)
2	Base	1	Aluminium A1100P t = 1.5	Metallic silver / Painted (Conductive inside)
3	Screw (M3-5 flat head)	4	Steel	Nickel plated
4	DIN Rail mount bracket	1	Plated steel	Zinc plated
5	Screw (M3-5 pan head)	4	Steel	Trivalent chromate

■ Cover and Base are covered with a protective film on one side.

DRB dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

APPLICATION EXAMPLE



Power supply unit



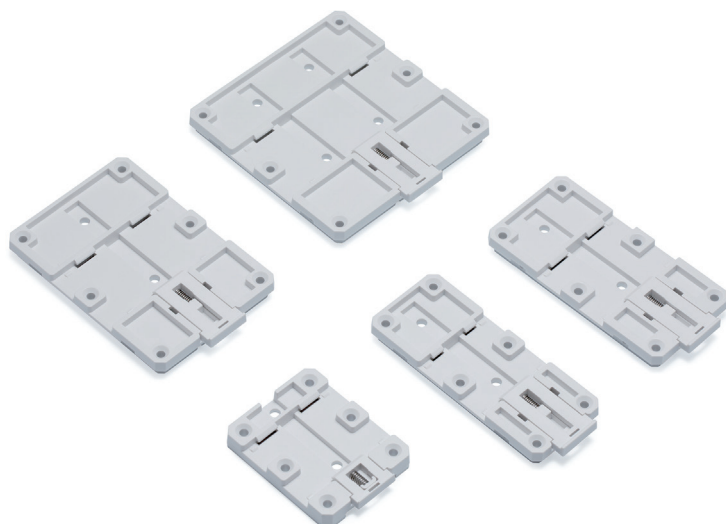
Communication device

Product no. / Details

Product no.	External dimensions			Internal dimensions			Weight (g)
	W	H	D	w	h	d	
DRB12- 5- 8	120	50	80	104	45.5	64	220.5
DRB12- 7- 8	120	70	80	104	65.5	64	253
DRB12-10- 8	120	100	80	104	95.5	64	301
DRB15- 5-10	150	50	100	134	45.5	84	285.5
DRB15- 7-10	150	70	100	134	65.5	84	326
DRB15-10-10	150	100	100	134	95.5	84	386.5

Accessories (Optional parts)

DIN Rail FDR series
See page 100Adhesive standoff AST series
See page 394Economical DIN Rail end stopper
DRS series
See page 99DIN Rail terminal block end stopper
TKR series
See page 99

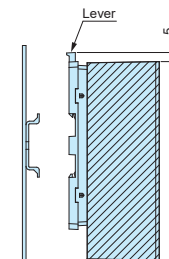


Installation Example



NOTE

Before installation, please ensure that the lever is not fully hidden behind the enclosure.



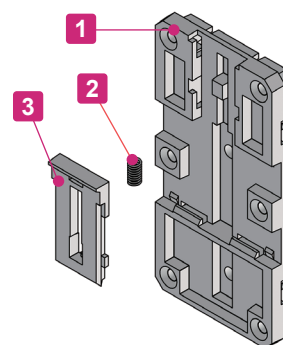
Technical Data

Max load : 5kg

- Mounting base for installation of enclosures, PCB and other parts onto 35mm DIN Rail.
- 4 new sizes added for a total of 5 different sizes available for selection.
- Easy mounting and dismounting from a DIN Rail using the pull lever.
- Replacement product for the discontinued DRA series.

Components

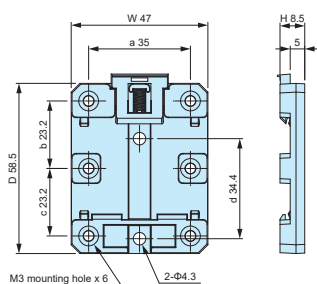
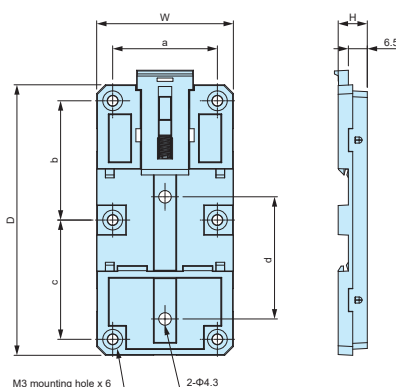
No.	Part name	Pcs	Materials	Color / Finish
1	Base	1	PC/ABS (UL94V-0)	Off-white
2	Compression spring	1	SUS304	Unfinished
3	Lever	1	PC/ABS (UL94V-0)	Off-white



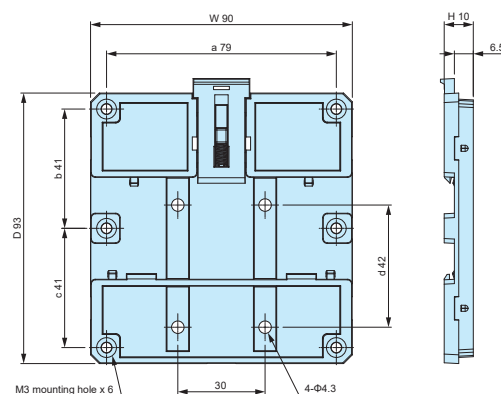
DRP dimensions

- DXF/DWG/PDF/STP drawings available on our website.

DRP5-6W

DRP4-9W, DRP5-9W
DRP7-9W

DRP9-9W

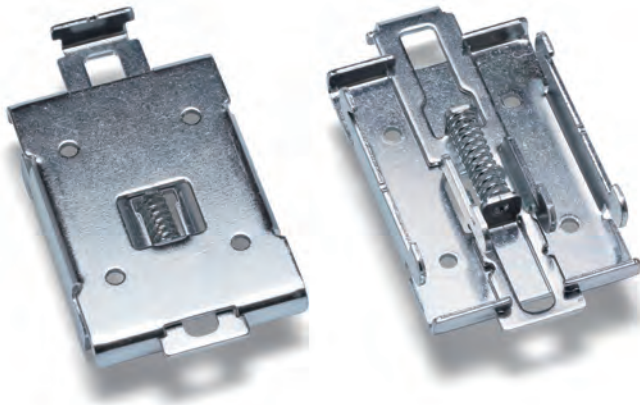


Product no. / Details

Product no.	Dimensions							Weight (g)	Old product model
	W	H	D	a	b	c	d		
NEW DRP4-9W	38	10	93	27	41	41	41	20.6	DRA-2
NEW DRP5-6W	47	8.5	58.5	35	23.2	23.2	34.4	13.4	DRA-3
DRP5-9W	47	10	93	36	41	41	42	24.6	DRA-1
NEW DRP7-9W	65	10	93	54	41	41	42	31.3	—
NEW DRP9-9W	90	10	93	79	41	41	42	41.6	—

DRM-1

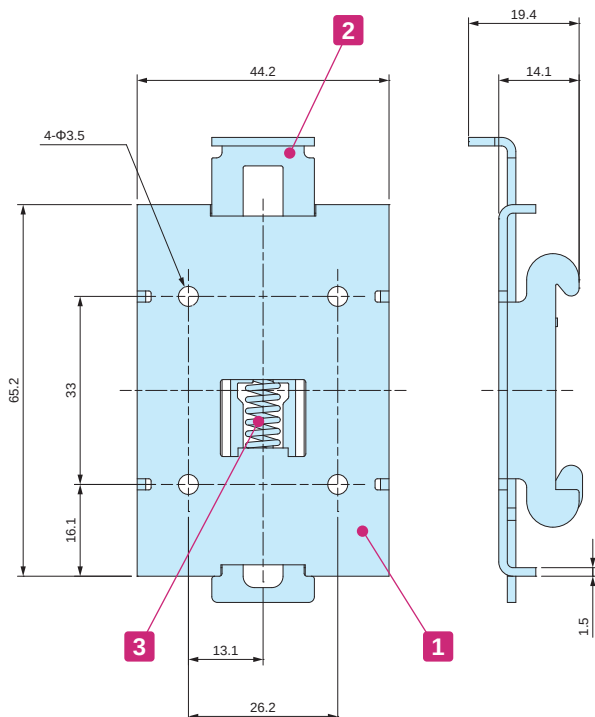
DIN RAIL MOUNT BRACKET



Installation example

- For installation of enclosures, PCB and other parts onto a DIN Rail.
- Robust metallic material allows rigid mounting on DIN Rails.
- Simple installation and removal via the pull lever.

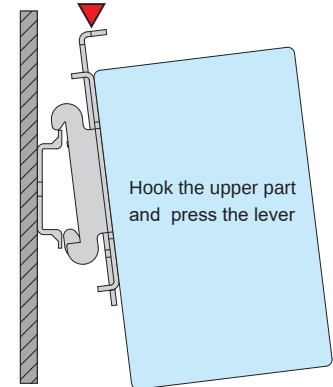
DRM-1 dimensions



- DXF/DWG/PDF drawings available on our website.

NOTE

Before installation, please ensure that the lever is not fully hidden behind the enclosure.



Technical Data

Max load : 10kg

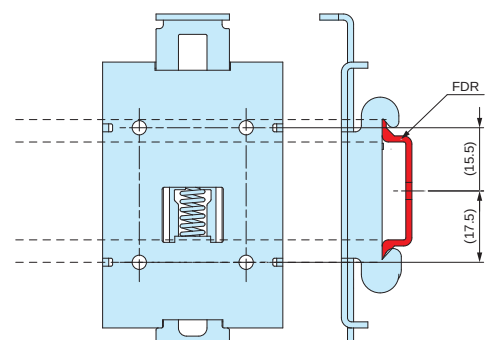
Components

No.	Part name	Material	Color / Finish
1	Base	Plated steel	Zinc plated
2	Lever	Plated steel	Zinc plated
3	Spring	Steel	Zinc plated

Product no. / Details

Product no.	Weight (g)
DRM-1	57.5

- Installation example on FDR series DIN Rail.



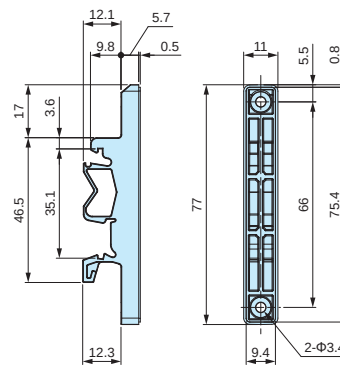
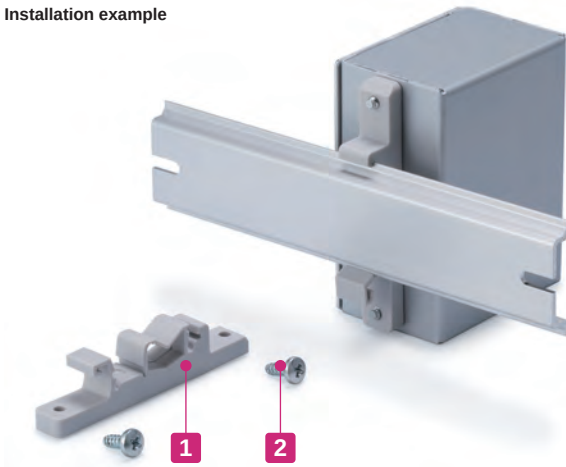
DRF series

DIN RAIL MOUNTING BRACKET

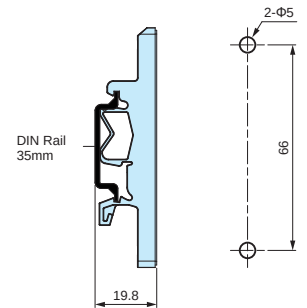


■ DXF/DWG/PDF drawings available on our website.

Installation example



Hole layout for mounting



Installed on 35mm DIN Rail

- Mounting bracket for installation of enclosures, PCB and other parts onto 35mm DIN Rail. Can be easily detached.
- Bulk packaging is available.

Technical Data

Max load : 1.5kg

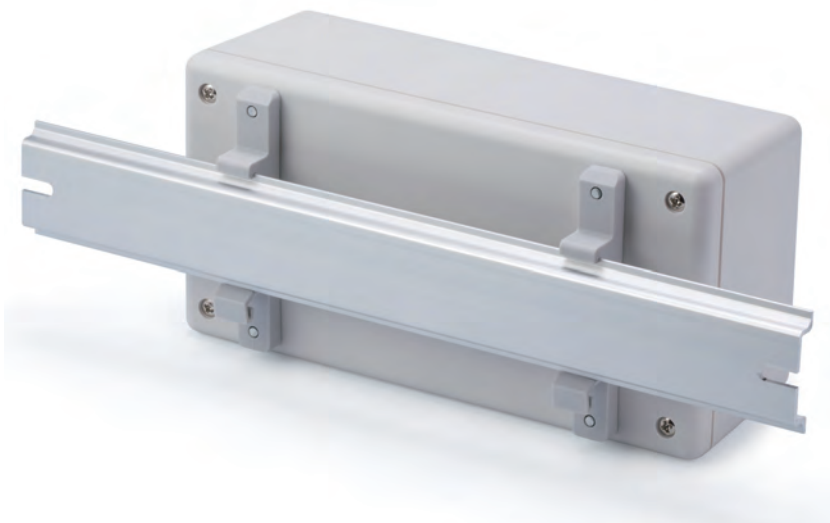
Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting bracket	1	PP	White gray
2	Screw (Bind head tapping 4-10)	2	Steel	Trivalent chromate

Product no. / Details

Product no.	Weight (g)	Pack of
DRF80-1	8.4	1
DRF80-1-P	8.4 / pc	20

Installation example (using 2pcs)

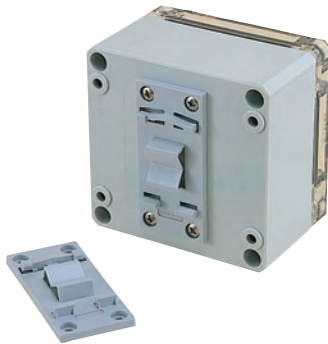


DRT series

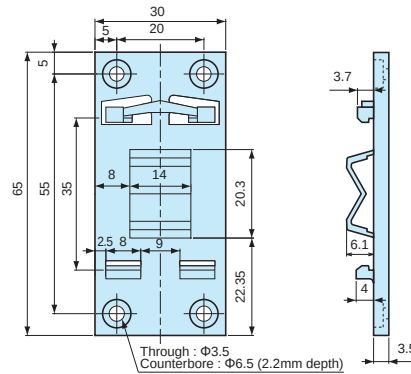
DIN RAIL MOUNTING BASE



Installation example

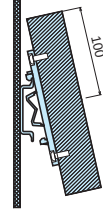


■ DXF/DWG/PDF/STP drawings available on our website.



■ NOTE

Before installation, please ensure that the length (from top) of the enclosure is equal to, or less than 100mm from the center of the mounting base.



- For installation of enclosures, PCB and other parts onto a DIN Rail.
- Simple installation and removal by tilting the case at an angle and sliding it in/out.

Technical Data

Max load : 1kg

Product no. / Details

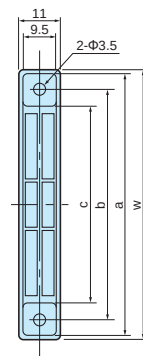
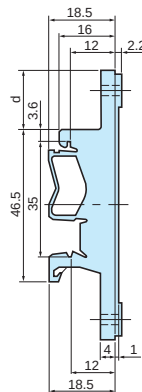
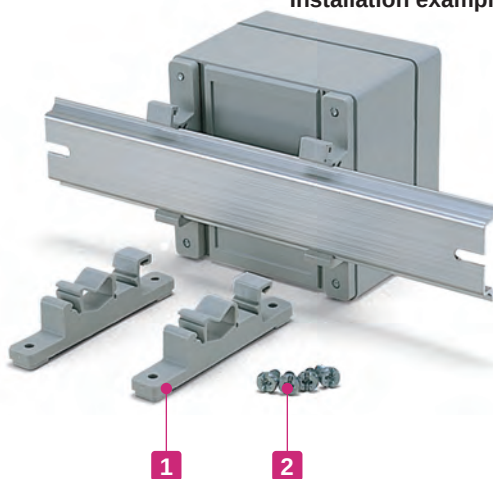
Product no.	Material	Color	Weight (g)	Pack of
DRT-1	PC/ABS UL94V-0	Light gray	7.3	1
DRT-1-P	PC/ABS UL94V-0	Light gray	7.3 (1pc)	50

CKD series

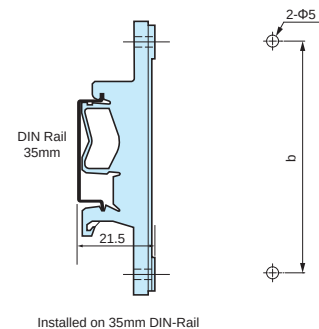
DIN RAIL MOUNTING FEET

Installation example

■ DXF/DWG/PDF drawings available on our website.



Hole layout for mounting



- Mounting feet for installation of enclosures, PCB and other parts onto a DIN Rail. Can be easily detached.

Technical Data

Max load : 3kg / 2pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting feet	2	Polyamide	White gray
2	Screw (special type 4.2 x 9.5)	4	Steel	Unichrome plated

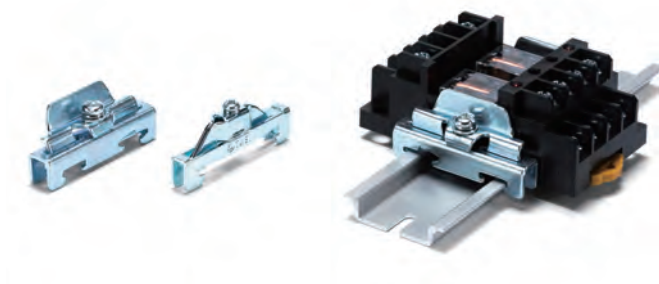
Product no. / Details

Product no.	W	a	b	c	d	Weight (g)	Pack of
CKD-120	117	115	106	96	37	21 (2pcs)	2
CKD-160	157	155	147	136	57	24 (2pcs)	2

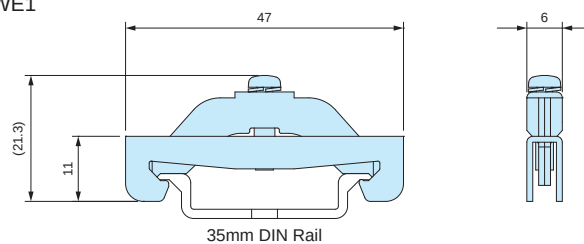
TKR series

DIN RAIL TERMINAL BLOCK END STOPPER

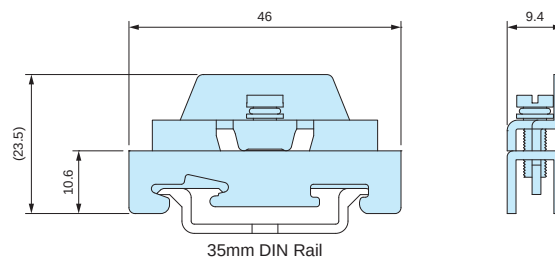
■ DXF/DWG/PDF drawings available on our website.



TKR-TWE1



TKR35-1



- Stopper bracket for use with 35mm DIN Rail to keep an attachment at a fixed location.
- TKR-TWE1 is used with small DIN Rail attachment parts. For larger / higher attachment parts, TKR35-1 is recommended for providing additional support.

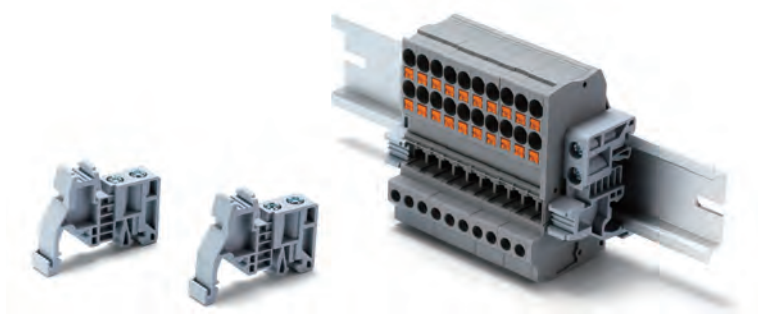
Product no. / Details

Product no.	Material	Finish	Pack of
TKR-TWE1	Steel	Trivalent chromate	2
TKR35-1	Steel	Trivalent chromate	2
TKR35-1-P	Steel	Trivalent chromate	50

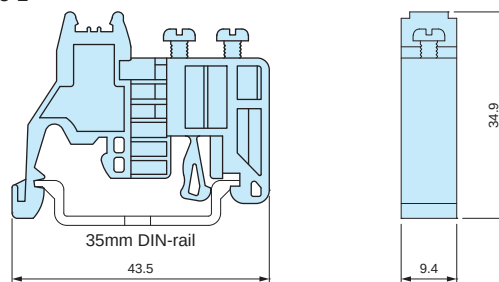
DRS series

ECONOMICAL DIN RAIL END STOPPER

■ DXF/DWG/PDF drawings available on our website.



DRS35-2



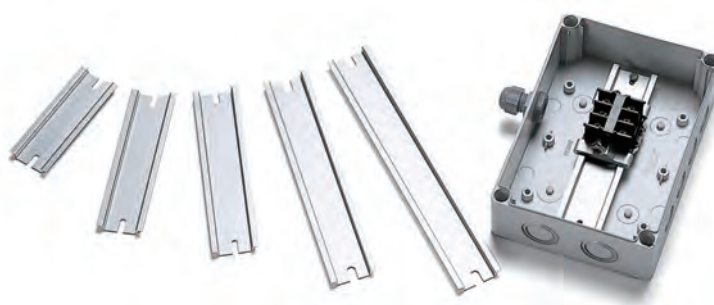
- Economically priced end stopper bracket.
- Included screws allow affixing of stopper brackets firmly at a fixed location.

Product no. / Details

Product no.	Material	Color	Pack of
DRS35-2	PA66	Light Gray	2
DRS35-2-P	PA66	Light Gray	50

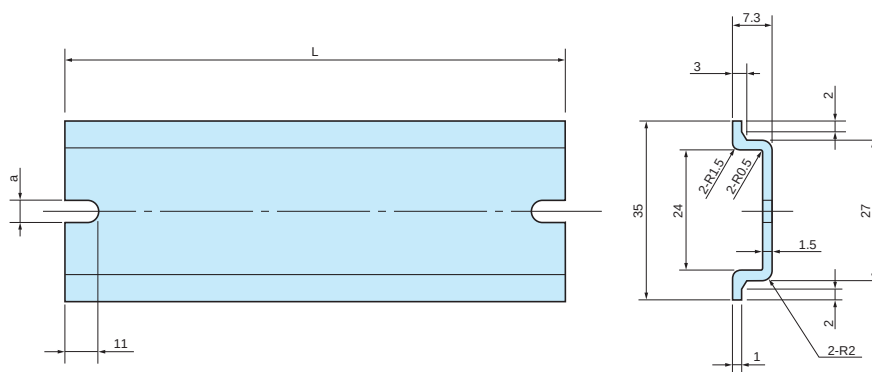
FDR series

DIN RAIL



Application example

- DIN Rail for installation of terminals, relays, or switches inside enclosures.
- Suitable for DIN Rail types of various manufacturers.



Product no. / Details

Product no.	L	a	Matching boss pitch	Weight
FDR- 50	50	4.2	32 ~ 42	8.6
FDR- 57	57	4.2	39 ~ 49	9.5
FDR- 66	66	4.2	48 ~ 58	10
FDR- 77	77	4.2	59 ~ 69	12
FDR- 80	80	4.2	62 ~ 72	13
FDR- 87	87	4.2	69 ~ 79	14
FDR- 92	92	4.2	74 ~ 84	15
FDR-100	100	4.2	82 ~ 92	17.8
FDR-106	106	4.2	88 ~ 98	19
FDR-110	110	4.2	92 ~ 102	20
FDR-120	120	4.2	102 ~ 112	21
FDR-128	128	4.2	110 ~ 120	23
FDR-137	137	4.2	119 ~ 129	24
FDR-142	142	4.2	124 ~ 134	25
FDR-146	146	4.2	128 ~ 138	26
FDR-150	150	4.2	132 ~ 142	25.8
FDR-168	168	4.2	150 ~ 160	30
FDR-170	170	4.2	152 ~ 162	30
FDR-186	186	4.2	168 ~ 178	32
FDR-202	202	4.2	184 ~ 194	37
FDR-205	205	4.2	187 ~ 197	36
FDR-223	223	4.2	205 ~ 215	39.3
FDR-226	226	4.2	208 ~ 218	39
FDR-235	235	4.2	217 ~ 227	42
FDR-242	242	4.2	224 ~ 234	43
FDR-249	249	4.2	231 ~ 241	43
FDR-283	283	4.2	265 ~ 275	49
FDR-300	300	4.2	282 ~ 292	52
NEW FDR-314	314	4.2	296 ~ 306	51.5
FDR-350	350	4.2	332 ~ 342	60
FDR-400	400	4.2	382 ~ 392	69
FDR-450	450	4.2	432 ~ 442	78
FDR-550	550	4.2	532 ~ 542	94

Product no.	L	a	Matching boss pitch	Weight
NEW FDR-B106	106	6.5	90 ~ 96	17.5
FDR-B124	124	6.5	108 ~ 114	21.4
FDR-B142	142	6.5	126 ~ 132	24
FDR-B160	160	6.5	144 ~ 150	28
FDR-B165	165	6.5	149 ~ 155	28
FDR-B176	176	6.5	160 ~ 166	30
FDR-B183	183	6.5	167 ~ 173	30
FDR-B196	196	6.5	180 ~ 186	33
FDR-B223	223	6.5	207 ~ 213	37
FDR-B256	256	6.5	240 ~ 246	43
FDR-B260	260	6.5	244 ~ 250	45
NEW FDR-B276	276	6.5	260 ~ 266	47.5
FDR-B303	303	6.5	287 ~ 293	52
NEW FDR-B327	327	6.5	311 ~ 317	56.2
FDR-B338	338	6.5	322 ~ 328	57
FDR-B360	360	6.5	344 ~ 350	63
FDR-B376	376	6.5	360 ~ 366	64
FDR-B383	383	6.5	367 ~ 373	65
FDR-B463	463	6.5	447 ~ 453	87
FDR-1000	1,000	—	—	169.5

- Material / Finish: A6063S-T5 / Silver anodized
- FDR-1000 does not have mounting holes.

ECONOMICAL OUTDOOR NETWORK BOX

Unique construction rainproof box

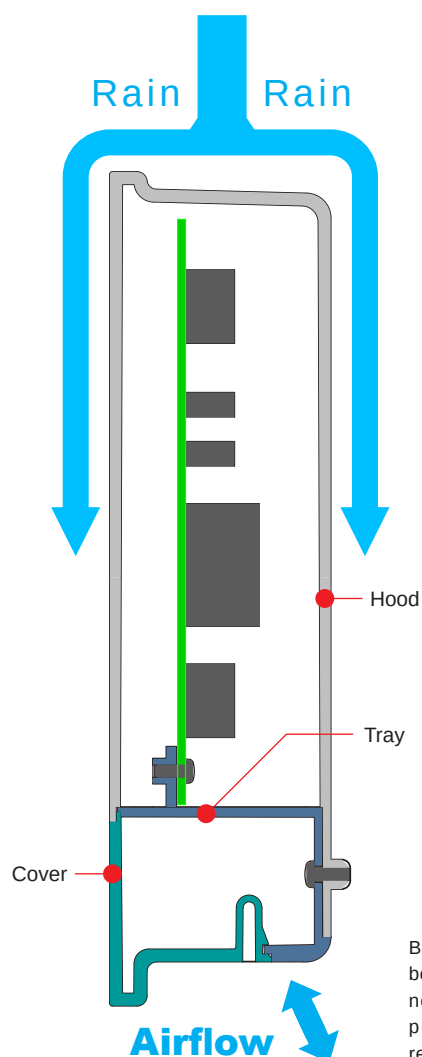
OB series

REASONS for ECONOMICAL

1. No Gasket required by the unique construction
2. Wall/Pole bracket integrated

Unique seamless construction

No rain entry by the seamless construction without gasket nor joint.



By having a slight gap between the cover and tray, no ventilation plug for the pressure equalization is required.

Wall • Pole mounting bracket integrated

The slit of the integrated bracket in the backside can hold the pole mounting belts. And the hanging holes can be utilize for wall mounting.



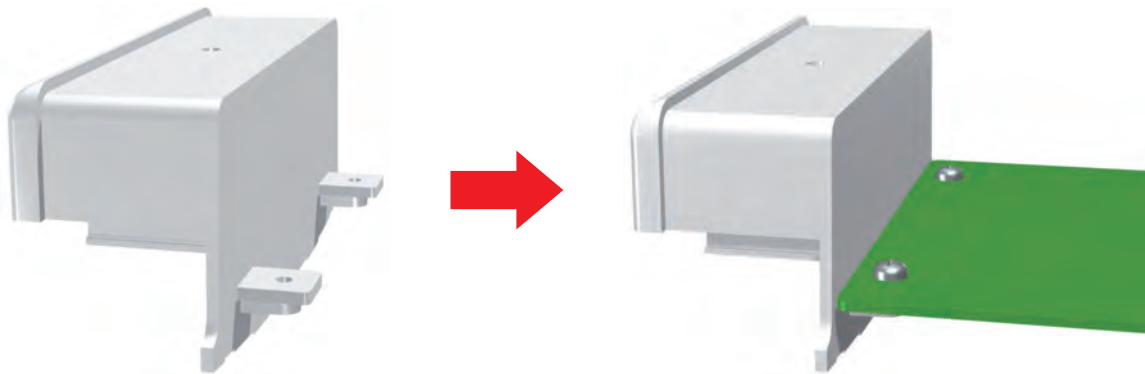
Weather-resistant ASA material

ASA material is resistant to deterioration and discoloration from ultraviolet rays. Perfect for use as outdoor communication or network devices.

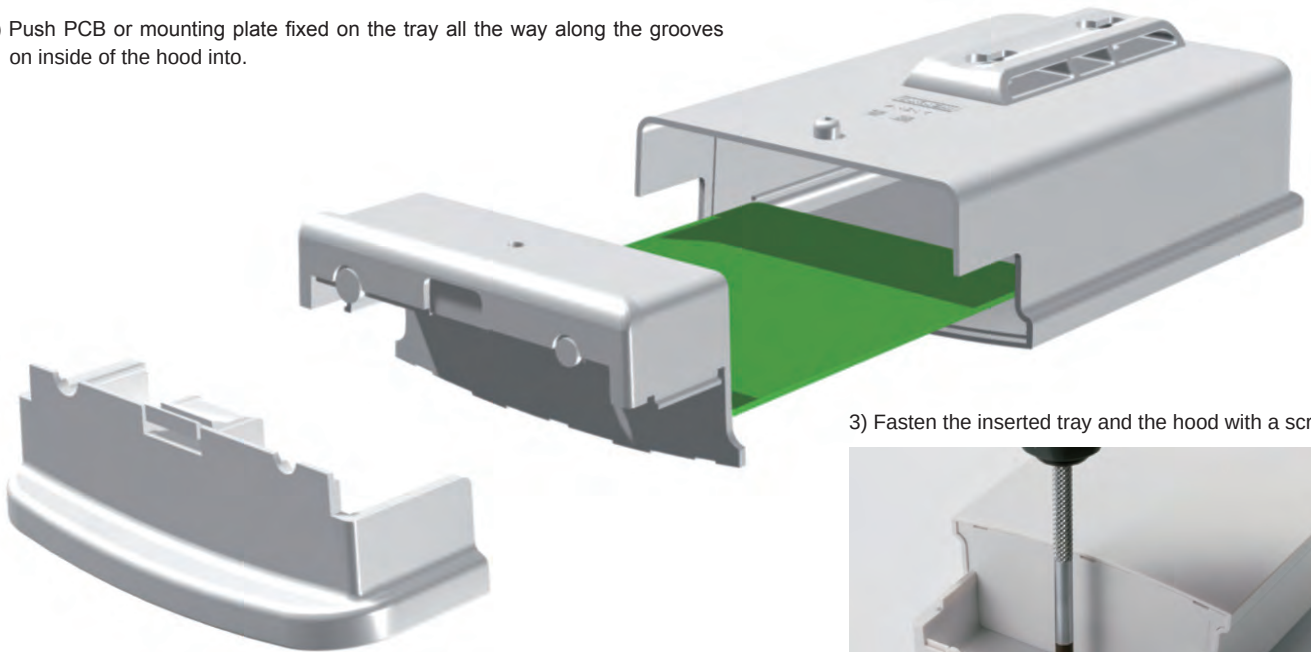


How to install PCB • Mounting plate

1) Fix PCB or mounting plate on the tray with screws.



2) Push PCB or mounting plate fixed on the tray all the way along the grooves on inside of the hood into.



3) Fasten the inserted tray and the hood with a screw.



Easy knock-out hole punching & cover replacement

Tray comes with knock-out holes for wiring. Knock-out holes can easily be punched out through with a plier or a nipper. The cover can be easily removed with one touch, hence it is an excellent structure for performing maintenance. For wiring, please machine cutout/hole on the side-wall of the tray as shown in the installation example below.



Connector installation example





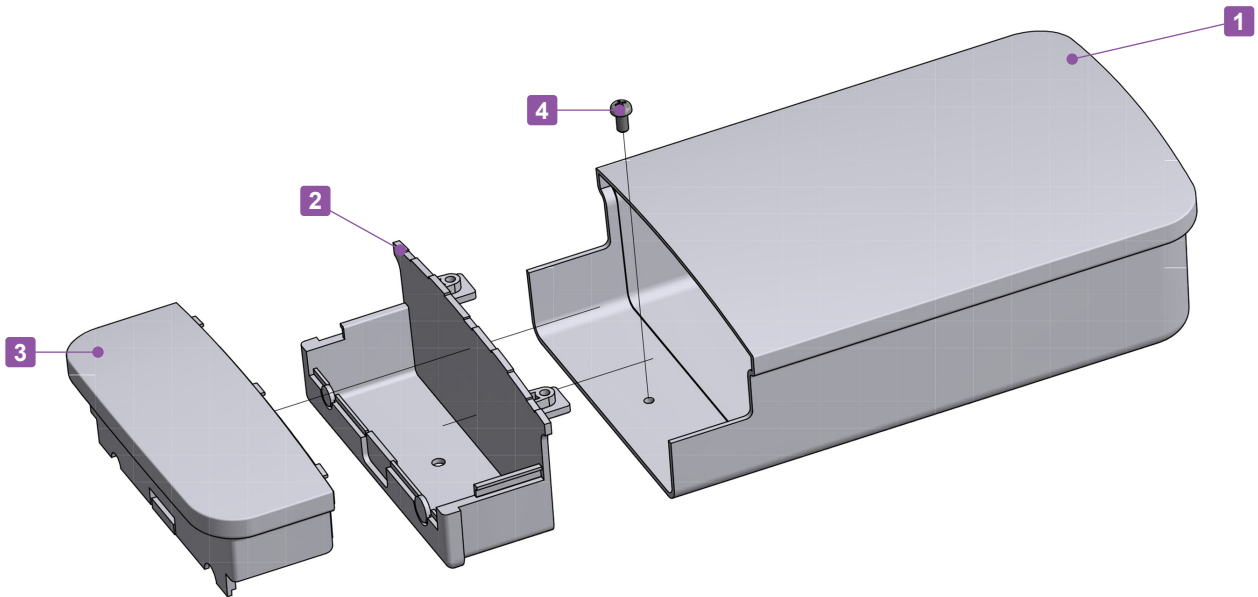
- Unique seamless construction and rainproof outdoor network box.
Although it is IP44, it can completely protect the internal components against rain when installed vertically.
- ASA material is resistant to deterioration and discoloration from ultraviolet rays.
Perfect for use as outdoor communication devices.
- Bracket integrated in the backside equipped with the slits allows for pole mounting belt to be passed through the slit for pole mounting, while the hanging holes enable it to be secured onto wall hooks or brackets.
- Tray comes with knock-out holes for wiring. Knock-out holes can easily be punched out through with a plier or a nipper.



Technical Data

Protection class : IP44
Operating temperature :
-30°C ~ +60°C

*May become brittle and break under impact when temperature is lowered close to -30°C.

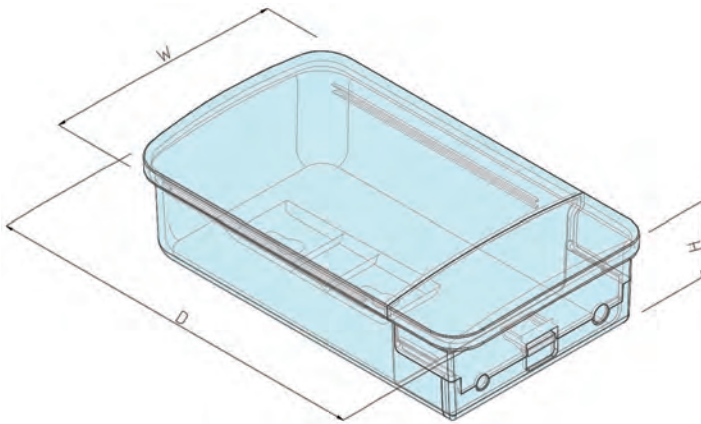


Components

No.	Part name	Pcs	Material / Color
1	Hood	1	ASA UL94HB / Off-white
2	Tray	1	ASA UL94HB / Off-white
3	Cover	1	ASA UL94HB / Off-white
4	Screw (Tray/PCB installation)	3	Stainless steel / Unfinished

OB dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

APPLICATION EXAMPLE
Network Device

Product no. / Details

Product no.	External dimensions			Knock-out holes
	W	D	H	
OB 8-14-4W	75	140	35	5.6Φ x1 • 7.2Φ x1
OB10-17-5W	100	170	45	5.6Φ x1 • 7.2Φ x1
OB13-21-6W	125	210	55	7Φ x1 • 10Φ x1

Accessories (Optional parts)

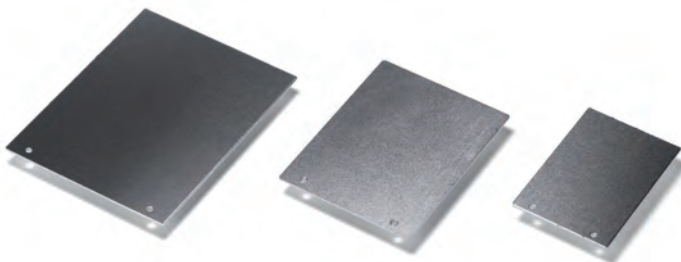


Pole mounting belt SNB • PKB series
See page 207 ~ 208

Accessories (Optional parts)

OBP series

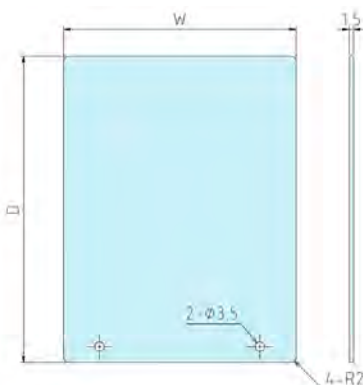
MOUNTING PLATE for OB



- Material / Finish : A1050P / Unfinished
- Aluminium mounting plate for OB series outdoor network box.
- Recommended to be used for installing network module, sensor, terminal block, etc.

OBP dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	W	D	Suitable models	Weight (g)
OBP 8-14	61.8	85	OB 8-14-4W	22.5
OBP10-17	87.1	115	OB10-17-5W	40
OBP13-21	110.5	135	OB13-21-6W	61

IP68

HIGH PERFORMANCE

Outdoor Waterproof Box
for 5G Technology!

WG series

WGPC series



IP68 High performance at 24-hours/1m-depth immersion



*Do not use underwater/underground.



With a silicone waterproof gasket, and supported by multiple enclosing screws from the rear side, it allows the enclosure to maintain a stable high waterproofing capability.

Weather-resistant ASA material



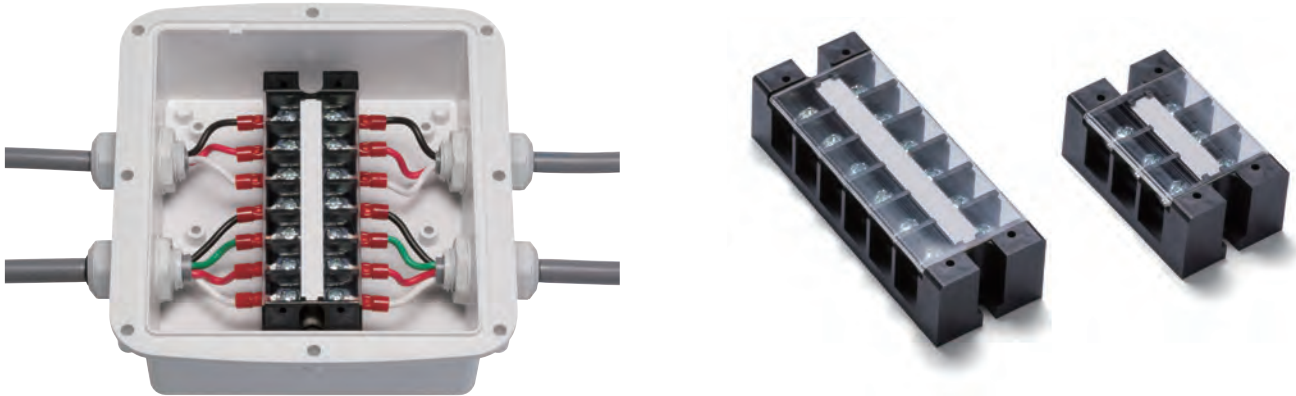
ASA material is resistant to deterioration and discoloration due to ultraviolet rays. Perfect for outdoor communication or network devices.

Captive screws for easy maintenance



There is no risk of screws dropping out and lost during maintenance. Captive screw is able to lock into a pre-drilled hole to provide a secure hold.

Optional terminal blocks compatible



Optional terminal blocks, WTB series can be installed onto the existing bosses inside the WG • WGPC and WGV series box without additional processing or customization, hence can also function as a terminal junction box. (See page 115~116 for WTB terminal blocks.)

Easy installation on walls & poles

WALL MOUNTING BRACKET



POLE MOUNTING BRACKET



POLE MOUNTING STRAP



WG series

IP68 WATERPROOF ASA BOX

NEW SIZE

WGPC series

IP68 WATERPROOF PC+ASA BOX

★ ★ NEW



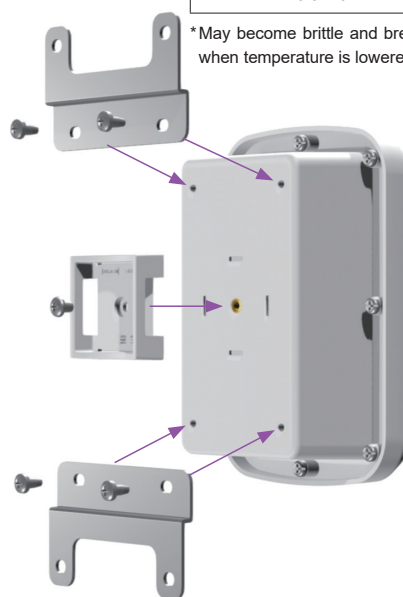
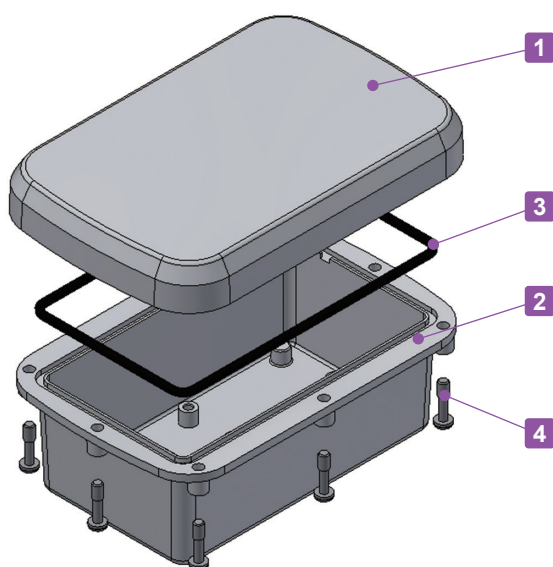
- IP68 high performance plastic box protected from immersion as long as 24 hours at 1m depth.
- ASA material is resistant to deterioration and discoloration from ultraviolet rays. PC/ASA material provides superior heat resistance and flame retardancy. Perfect for use as outdoor communication or network devices.
- Self-tapping captive screws which are able to lock into a pre-drilled hole and provide a secure hold for fastening the cover. Please drive the self-tapping captive screws for cutting a thread into the holes at first so that the cover and body can be secured together properly.



Technical Data

Protection class :
IP68 (24-hours/1m-depth)
Operating temperature :
WG : -30°C ~ +60°C
WGPC : -30°C ~ +75°C
Recommended torque :
0.5 ~ 0.7N · m

*May become brittle and break under impact when temperature is lowered close to -30°C.



There are 5 holes on the backside of the body (4 at each corner, 1 in center). 4 corner holes are for wall mounting bracket, and 1 center hole is for pole mounting bracket.

WG Components

No.	Part name	Pcs	Material / Color
1	Cover	1	ASA UL94HB / Off-white
2	Body	1	ASA UL94HB / Off-white
3	Gasket	1	Silicone / Black
4	Self-tapping captive screw	8 ~ 10	Stainless steel / Unfinished

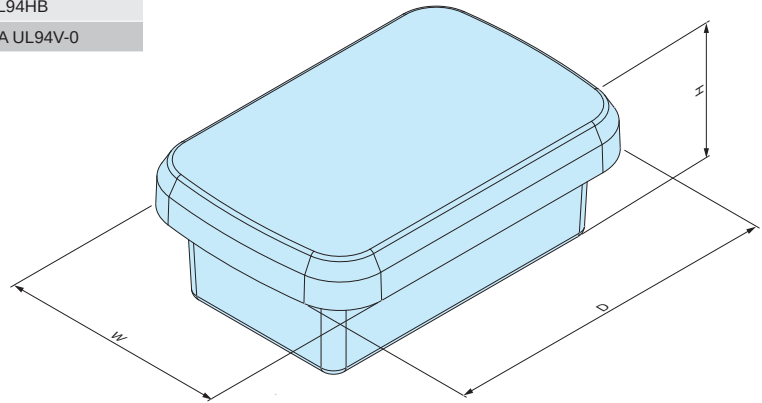
WGPC Components

No.	Part name	Pcs	Material / Color
1	Cover	1	PC/ASA UL94V-0 / Light gray
2	Body	1	PC/ASA UL94V-0 / Light gray
3	Gasket	1	Silicone / Black
4	Self-tapping captive screw	8 ~ 10	Stainless steel / Unfinished

Color

Series	Code	Color	Material
WG	W	Off-White	ASA UL94HB
WGPC	G	Light gray	PC/ASA UL94V-0

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions			Weight (g)
	W	D	H	
WG10-15- 6W	100	150	55	169.5
WG10-15- 8W	100	150	75	192
WG15-16- 6W	145	155	55	232
WG15-16- 8W	145	155	80	266.5
WG15-21- 6W	145	210	60	314
WG15-21- 9W	145	210	90	367
WG17-25- 8W	170	250	80	470
WG17-25-11W	170	250	110	534
WG23-25- 8W	225	245	80	570
WG23-25-11W	225	245	110	645
NEW WG25-33- 9W	245	325	90	965
NEW WG25-33-12W	245	325	120	1,073
NEW WG30-33- 9W	300	325	90	1,151
NEW WG30-33-13W	300	325	130	1,285.5
NEW WG28-40-10W	280	400	100	1,332.5
NEW WG28-40-15W	280	400	150	1,529.5

Product no. / Details

Product no.	External dimensions			Weight (g)
	W	D	H	
NEW WGPC10-15- 6G	100	150	55	188.5
NEW WGPC10-15- 8G	100	150	75	213.5
NEW WGPC15-16- 6G	145	155	55	258
NEW WGPC15-16- 8G	145	155	80	296.5
NEW WGPC15-21- 6G	145	210	60	349.5
NEW WGPC15-21- 9G	145	210	90	408.5
NEW WGPC17-25- 8G	170	250	80	523
NEW WGPC17-25-11G	170	250	110	594
NEW WGPC23-25- 8G	225	245	80	634
NEW WGPC23-25-11G	225	245	110	717.5
NEW WGPC25-33- 9G	245	325	90	1,073.5
NEW WGPC25-33-12G	245	325	120	1,193.5
NEW WGPC30-33- 9G	300	325	90	1,280
NEW WGPC30-33-13G	300	325	130	1,430
NEW WGPC28-40-10G	280	400	100	1,482
NEW WGPC28-40-15G	280	400	150	1,701

Accessories (Optional parts)



Wall mounting bracket WGF series
See page 112



Pole mounting bracket WGMB • WPMB • SSK series
See page 113 ~ 114 and 205 ~ 206



Pole mounting strap • belt SNB • PKB series
See page 207 ~ 208



Tapping Standoff TPS series
See page 397



Mounting plate WGP series
See page 111



PCB mounting screw MT4-8T
See page 112



Terminal block WTB series
See page 115



DIN Rail FDR series
See page 97



Protective vent PMF series
See page 197 ~ 198



Cable gland
See page 181 ~ 193



- IP68 high performance plastic box protected from immersion as long as 24 hours at 1m depth where external (surroundings) and internal (inside box) pressure are different.
- ASA material is resistant to deterioration and discoloration from ultraviolet rays. Perfect for use as outdoor communication or network devices.
- Self-tapping captive screws which are able to lock into a pre-drilled hole and provide a secure hold for fastening the cover. Please drive the self-tapping captive screws for cutting a thread into the holes at first so that the cover and body can be secured together properly.

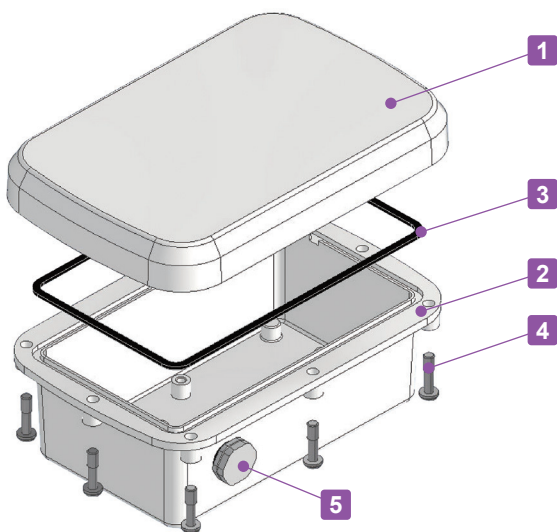


Technical Data

Protection class :	IP68 (24-hours/1m-depth)
Operating temperature :	-30°C ~ +60°C
Recommended torque :	0.5 ~ 0.7N • m
Ventilation plug recommended torque :	0.6 ~ 0.8N • m

*May become brittle and break under impact when temperature is lowered close to -30°C.

Ventilation plug protects the enclosure from deformation by equalizing pressure in environments where there are differences between strong daytime and low nighttime temperatures, as well as venting the gas generated within.

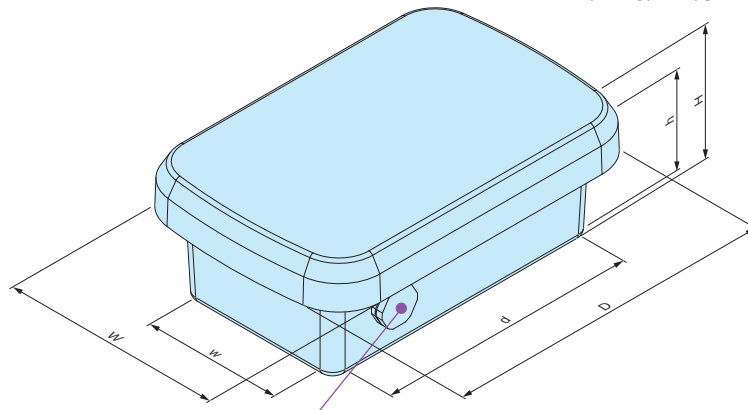


Components

No.	Part name	Pcs	Material / Color
1	Cover	1	ASA UL94HB / Off-white
2	Body	1	ASA UL94HB / Off-white
3	Gasket	1	Silicone / Black
4	Self-tapping captive screw	8 ~ 10	Stainless steel / Unfinished
5	Ventilation plug	1	PA66 + PA6 • PTFE / Light gray

WGV dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



The location of the ventilation plug is pre-fixed.
*Customization for location change possible.

Product no. / Details

Product no.	External dimensions			Internal dimensions			Screw	Weight (g)
	W	D	H	w	d	h		
WGV10-15- 6W	100	150	55	58	115	43	M4× 8pcs	171
WGV10-15- 8W	100	150	75	57	114	63	M4× 8pcs	193.5
WGV15-16- 6W	145	155	55	102	120	43	M4× 8pcs	233.5
WGV15-16- 8W	145	155	80	100	118	68	M4× 8pcs	268
WGV15-21- 6W	145	210	60	102	174	48	M4×10pcs	315.5
WGV15-21- 9W	145	210	90	100	172	78	M4×10pcs	368.5
WGV17-25- 8W	170	250	80	125	209	67.5	M4×10pcs	471.5
WGV17-25-11W	170	250	110	122	206	97.5	M4×10pcs	535.5
WGV23-25- 8W	225	245	80	180	194	67.5	M4×10pcs	571.5
WGV23-25-11W	225	245	110	177	191	97.5	M4×10pcs	646.5
NEW WGV25-33- 9W	245	325	90	189	268	74	M4×10pcs	966.5
NEW WGV25-33-12W	245	325	120	186	265	104	M4×10pcs	1,075.5
NEW WGV30-33- 9W	300	325	90	244	268	74	M4×10pcs	1,152.5
NEW WGV30-33-13W	300	325	130	240	264	114	M4×10pcs	1,288
NEW WGV28-40-10W	280	400	100	223	338	84	M4×10pcs	1,335
NEW WGV28-40-15W	280	400	150	218	333	134	M4×10pcs	1,532

Accessories (Optional parts)



Wall mounting bracket WGF series
See page 112



Pole mounting bracket WGMB • WPMB • SSK series
See page 113 ~ 114 and 205 ~ 206



Pole mounting strap • belt SNB • PKB series
See page 207 ~ 208



Tapping Standoff TPS series
See page 397



Mounting plate WGP series
See page 111



PCB mounting screw MT4-8T
See page 112



Terminal block WTB series
See page 115



DIN Rail FDR series
See page 97



Protective vent PMF series
See page 197 ~ 198



Cable gland
See page 181 ~ 193

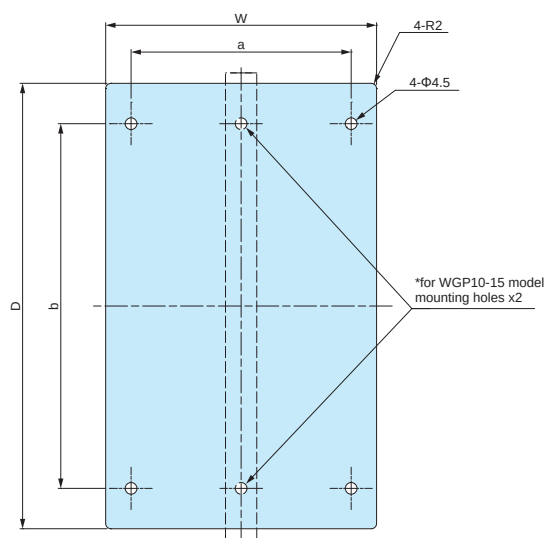
WGP series

MOUNTING PLATE for WG • WGPC • WGV



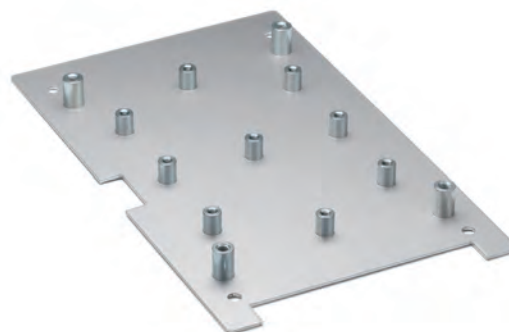
WGP dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



■ Material / Finish : A1100P (t=1.5mm) / Silver anodized

■ Hole milling, clinching spacer customizations are available.
See page Custom-6 and our website for more details.



Product no. / Details

■ Mounting screws included.

Product no.	W	D	a	b	Suitable models	Weight (g)
WGP10-15	60	112	—	97	WG • WGPC • WGV10-15-□	30
WGP15-16	105	117	84.5	90	WG • WGPC • WGV15-16-□	54
WGP15-21	104	171	84.5	140	WG • WGPC • WGV15-21-□	76
WGP17-25	120	200	100	176	WG • WGPC • WGV17-25-□	100
WGP23-25	175	185	152	168	WG • WGPC • WGV23-25-□	133
NEW WGP25-33	178	254	154	230	WG • WGPC • WGV25-33-□	190
NEW WGP30-33	232	254	208	230	WG • WGPC • WGV30-33-□	247.5
NEW WGP28-40	210	322	184	298	WG • WGPC • WGV28-40-□	283

MT4-8T

PCB MOUNTING SCREW



- Self-tapping screws for board mounting on bosses inside WG, WGPC and WGV series enclosures.

Product no. / Details

Product no.	Material	Finish	Pack of
MT4-8T (Bind tapping M4-8)	Steel	Trivalent chromate	20

WGF series

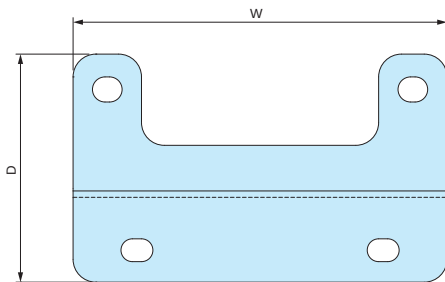
WALL MOUNTING BRACKET for WG • WGPC • WGV



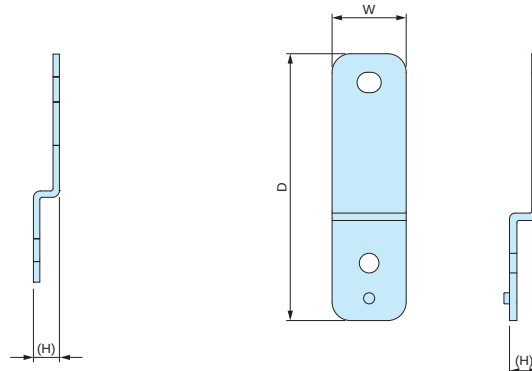
WGF dimensions

- DXF/DWG/PDF/STP drawings available on our website.

WGF-10 ~ WGF-25



WGF-L



Product no. / Details

- Stainless steel mounting screws included.

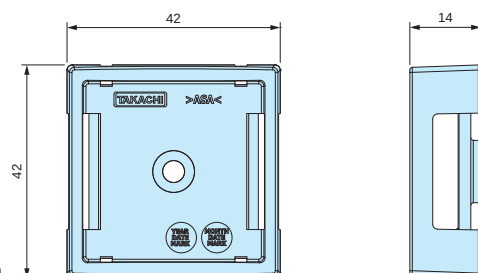
Product no.	W	D	(H)	Suitable models	Material / Finish	Pack of
WGF-10	82	50	(5.8)	WG • WGPC • WGV10-15-□ (W direction)	Stainless steel t=1.5mm / Barrel finish	2
WGF-15	132	50	(5.8)	WG • WGPC • WGV10-15-□ (D direction)		2
				WG • WGPC • WGV15-16-□ (W • D direction)		
				WG • WGPC • WGV15-21-□ (W direction)		
				WG • WGPC • WGV17-25-□ (W direction)		
WGF-23	184	55	(8.0)	WG • WGPC • WGV15-21-□ (D direction)	Stainless steel t=2.0mm / Barrel finish	2
WGF-25	210	55	(8.0)	WG • WGPC • WGV23-25-□ (W direction)		2
				WG • WGPC • WGV17-25-□ (D direction)		
NEW WGF-L	20	72	(8.0)	WG • WGPC • WGV23-25-□ (D direction)		4
				WG • WGPC • WGV25-33-□ (W • D direction)		
				WG • WGPC • WGV30-33-□ (W • D direction)		
				WG • WGPC • WGV28-40-□ (W • D direction)		

WGMB-1W POLE MOUNTING BRACKET for WG • WGPC • WGV



■ DXF/DWG/PDF/STP drawings available on our website.

WGMB dimensions



- Pole mount bracket made from weather resistant ASA material.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its IP rating.
- WG • WGPC • WGV10-15-□ and 15-16-□ can be installed in both the W or D direction.
- Pole mount is possible with the use of SNB or PKB series mounting belt. (See website)

* Operating temperature : -30°C ~ +60°C

Product no. / Details

■ Mounting stainless steel screw included.

Product no.	Suitable models	Material / Color	Weight (g)	Pack of
WGMB-1W	WG • WGPC • WGV10-15-□ / 1 pc required WG • WGPC • WGV15-16-□ / 1 pc required WG • WGPC • WGV15-21-□ / 2 pcs required	ASA UL94HB / Off-white	9	1

Installation example

Installation (1 pc)

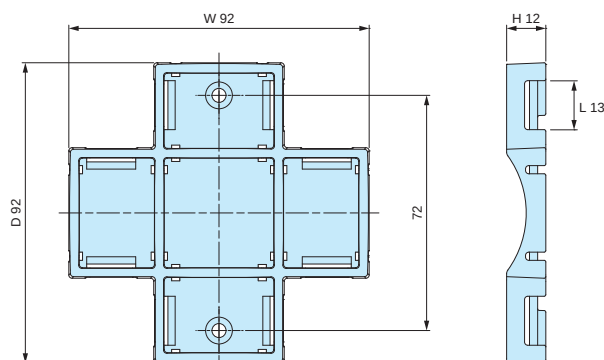
Installation (2 pcs)



WPMB-M4-2G POLE MOUNTING BRACKET

■ DXF/DWG/PDF/STP drawings available on our website.

WPMB-M4-2 dimensions



- Pole mount bracket made from weather resistant ASA material.
- Pole mounting belt can be installed in either W or D direction.
- Pole mount is possible with the use of PKB series mounting belt. (See page 208)
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its protection class.

*Stainless steel screw belt SNB series is not usable on WPMB-M4-2 series.

* Operating temperature : -30°C ~ +60°C

Color

White gray

Product no. / Details

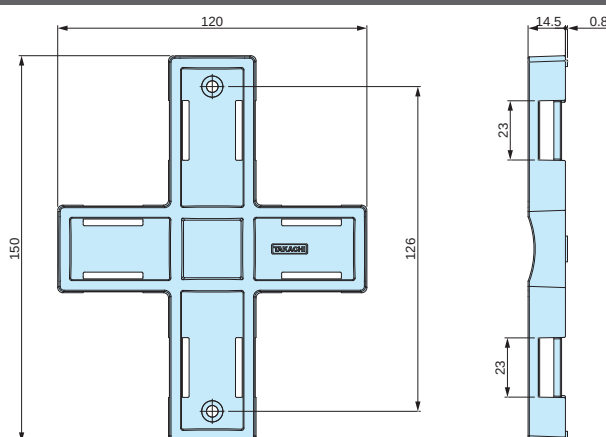
■ Mounting stainless steel screw included.

Product no.	Suitable models	Recommended torque (N • m)	Weight (g)	Pack of
WPMB-M4-2G	WG • WGPC • WGV15-21-□	0.45 ~ 0.5	24	1

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

WGMB-2N

DIECAST ALUMINIUM POLE MOUNTING BRACKET for WG • WGPC • WGV



■ DXF/DWG/PDF/STP drawings available on our website.

- Pole mount bracket made from robust diecast aluminium.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its protection class.
- Can be used for WG • WGPC • WGV17-25-□ and 23-25-□ models.
- Pole mounting belt can be installed in either W or D direction.
- Pole mount is possible with the use of SNB or PKB series mounting belt. (See page 207 ~ 208)

Product no. / Details

■ Stainless steel mounting screws included.

Product no.	Suitable models	Material / Finish	Weight (g)	Pack of
WGMB-2N	WG • WGPC • WGV17-25-□ WG • WGPC • WGV23-25-□	Diecast aluminium ADC12 / Shot blast	126	1

Installation example

WGMB-2N



Vertical mounting



Horizontal mounting



SSK series (Pole mounting bracket for WG • WGPC • WGV25-33-9 ~ 28-40-15)

SSK series

Vertical mounting



Suitable model

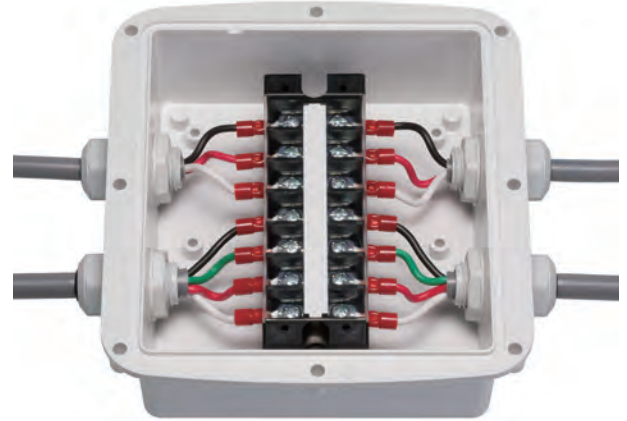
Product no.		Pole mounting bracket product no.		Screw type
		For vertical	For horizontal	
WG WGPC WGV	25-33- 9 25-33-12	SSK-250	SSK-300	Use included screw
	30-33- 9 30-33-13	SSK-300	SSK-300	
	28-40-10 28-40-15	SSK-280	SSK-400	

* See page 205 for details.

WTB series

TERMINAL BLOCK for WG • WGPC • WGV

FW2



- Compatible terminal blocks for WG • WGPC • WGV series.
- Not suitable for WG • WGPC • WGV25-33-□ ~ 28-40-□.

Components

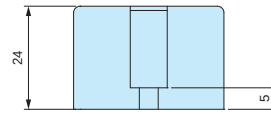
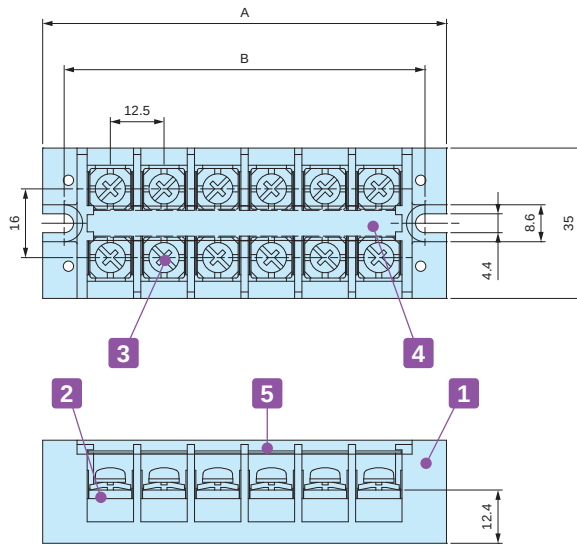
No.	Part name	Pcs	Material	Color or Finish
1	Base	1	PBT UL94V-0	Black
2	Conductive plate	1	Brass	Nickel plated
3	Terminal screw (M4-10)	2 x P	Steel	Trivalent chromate
4	Symbol board	1	PET	White
5	Cover	1	Polycarbonate UL94V-0	Transparent
—	Screw (Bind tapping M4-10)	2	Steel	Trivalent chromate

Specification

- Electrical Rating 600V • 35A
- Insulation Resistance DC500V 1000MΩ ~
- Withstand Voltage AC2500V (Tested for 1 min.)
- Rising Temp. 30°C or less
- Operating Temp. Range -40°C ~ +90°C
- Storage Temp. Range -40°C ~ +90°C

WTB dimensions

- DXF/DWG/PDF drawings available on our website.



Product no. / Details

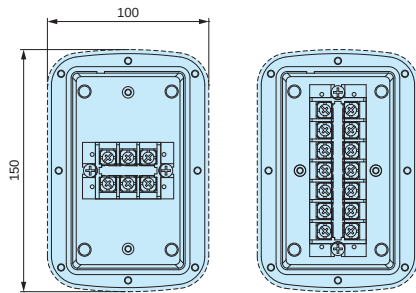
Product no.	P (Number of poles)	A	B	Suitable models
WTB-240- 3P-FB	3	56.5	46.5	WG • WGPC • WGV10-15-□ (W direction)
WTB-240- 6P-FB	6	94.0	84.0	WG • WGPC • WGV15-16-□, WG • WGPC • WGV15-21-□ (W direction)
WTB-240- 7P-FB	7	106.5	96.5	WG • WGPC • WGV10-15-□, WG • WGPC • WGV15-16-□ (D direction)
WTB-240-10P-FB	10	144.0	134.0	WG • WGPC • WGV17-25-□ (W direction)
WTB-240-12P-FB	12	169.0	159.0	WG • WGPC • WGV15-21-□ (D direction)
				WG • WGPC • WGV23-25-□ (W direction)
				WG • WGPC • WGV17-25-□, WG • WGPC • WGV23-25-□ (D direction)

WTB mounting layout

WG • WGPC • WGV10-15-□

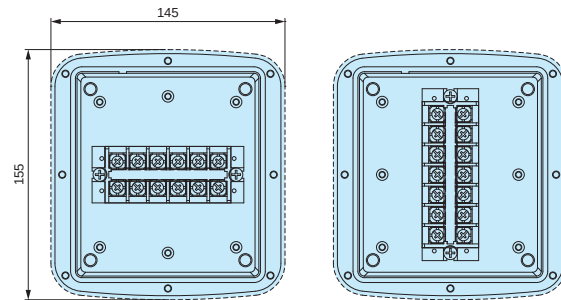
WTB-240-3P

WTB-240-7P

**WG • WGPC • WGV15-16-**□

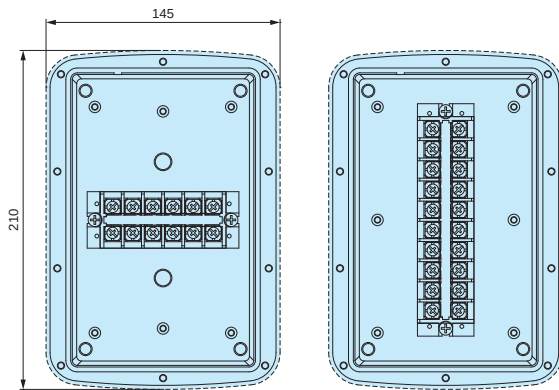
WTB-240-6P

WTB-240-7P

**WG • WGPC • WGV15-21-**□

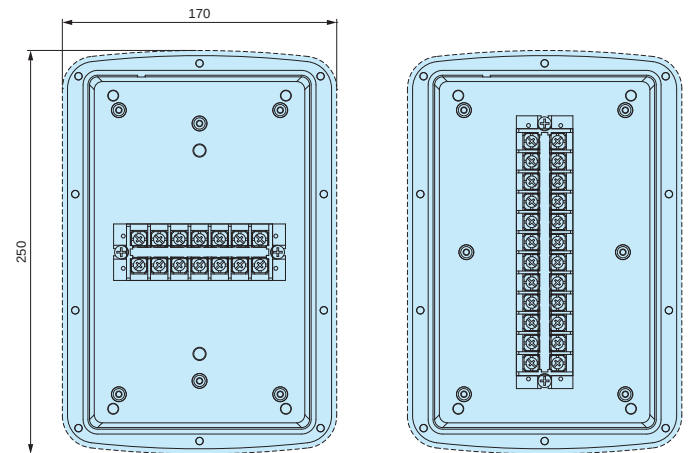
WTB-240-6P

WTB-240-10P

**WG • WGPC • WGV17-25-**□

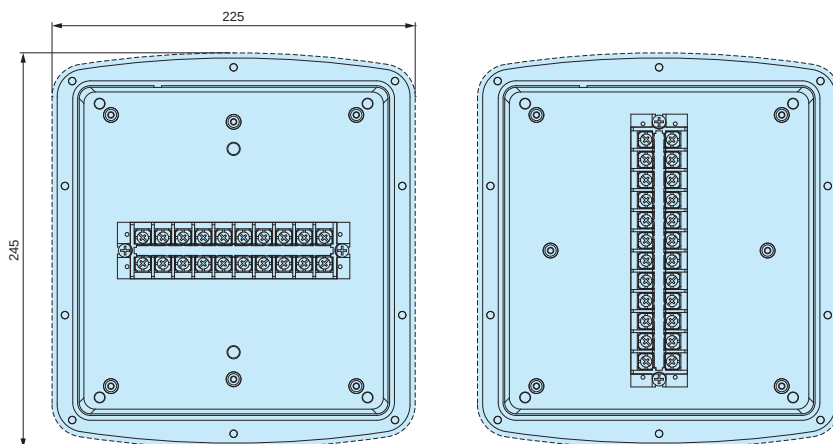
WTB-240-7P

WTB-240-12P

**WG • WGPC • WGV23-25-**□

WTB-240-10P

WTB-240-12P

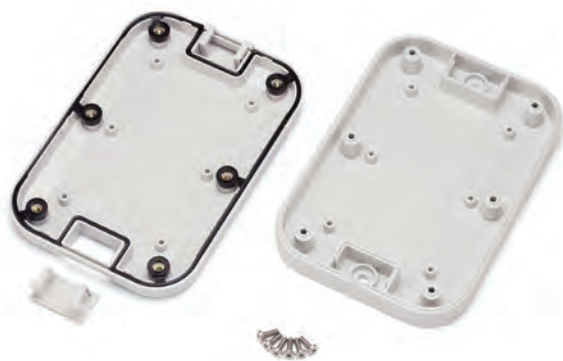


IP68 / IP67 UV-PROTECT NETWORK PLASTIC BOX WP series



Waterproofing ability by using silicone gasket

Highly elastic and durable silicone gasket for high waterproof ability. The use of insert nuts allows the unit to retain its waterproof ability even after multiple opening and closing.



Weather-resistant ASA material

The white gray "G" type utilize a UV resistant, durable ASA material. Recommended for outdoor usage as a communication device type equipment.



Outdoors Use Example
Weather Station

Easy installation on walls

Easy mounting onto walls by opening the blind lids. A clean and sleek appearance can be maintained as screws are hidden away by the blind lids.



Easy installation on electrical poles

By using a pole mounting accessory, it can be attached to poles with ease.



Information on waterproofing after hole milling for switches

The waterproof performance will be lost once hole or cutout is milling on IP rated enclosure.
To ensure it remains waterproof after hole/cutout milling, IP rated membrane pad or overlay is required.



WP series APPLICATION EXAMPLE

Outdoor Lighting Remote Controller

Leak Guard - Home Water Leak Detector



Clay Pigeon Shooting Controller

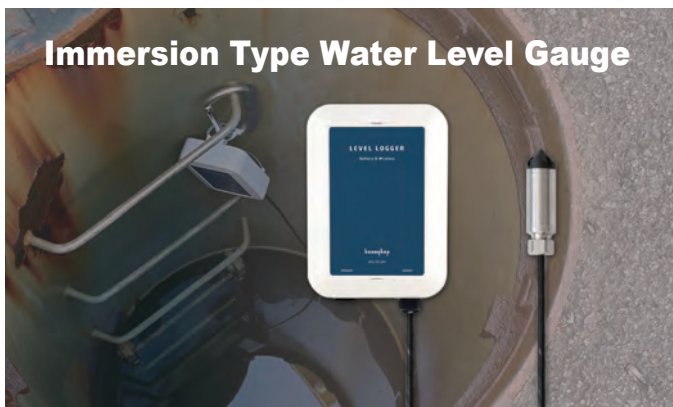
Wireless Temperature / Humidity Transmitter



WP series APPLICATION EXAMPLE



LoRaWAN Gateway



Outdoor Cloud Data Logger



Wireless Indoor Air Monitoring System



LoRa WAN Pressure Transmitter



Sigfox Multi Sensor



Network Sensor for Agriculture



Argonomic Parameter Surveillance Unit



Crop Growing Remote Monitoring Device



Bird/Beast Damage Control Sensor





- IP68 (IP67 for WP20-28-○) high performance plastic box protected from immersion as long as 24 hours at 1m depth.
- 24 different sizes available in white gray UV-resistant ASA and charcoal gray flame-resistant ABS. Recommended for use as outdoor communication or network devices.
- Mount on walls or brackets by simply opening the blind lids.
- Pole mounting is possible via an optional pole mounting bracket accessory.

IP67 IP68

Technical Data

Protection class :

IP68 (24-hours/1m-depth)
WP20-28-5□ } IP67
WP20-28-7□

Operating temperature :

Models = 5-7-□ ~ 20-20-□:
ASA¹-20 ~ +60°C
ABS -10 ~ +50°C

Models = 20-28-□² :
ASA¹-20 ~ +55°C
ABS -10 ~ +45°C

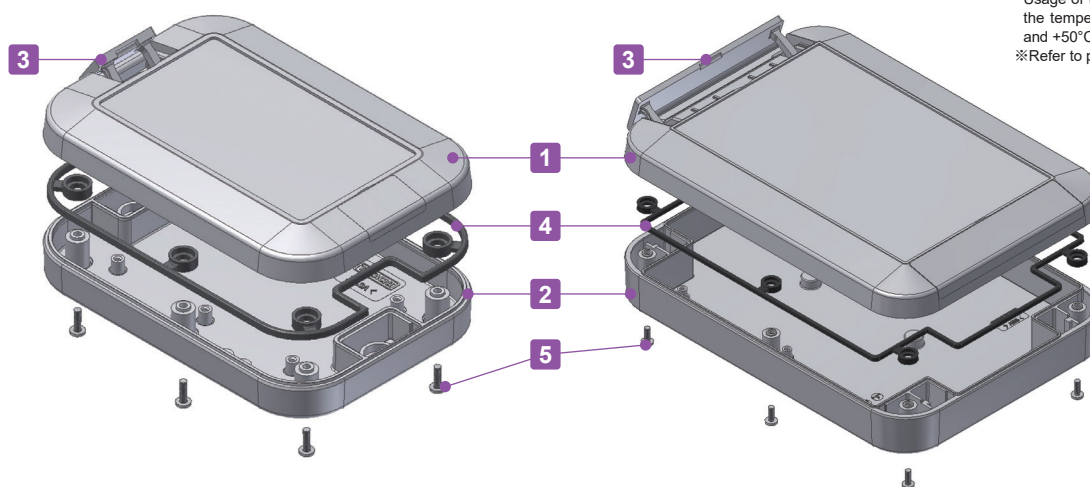
¹ May become brittle and break under impact when temperature is lowered close to -20°C.

² Usage of the PMF series protective vent will raise the temperature limit for ASA and ABS to +60°C and +50°C respectively.

※Refer to page 125 for more information.

WP5-7-2 ~ WP13-18-5

WP15-15-4 ~ WP20-28-7

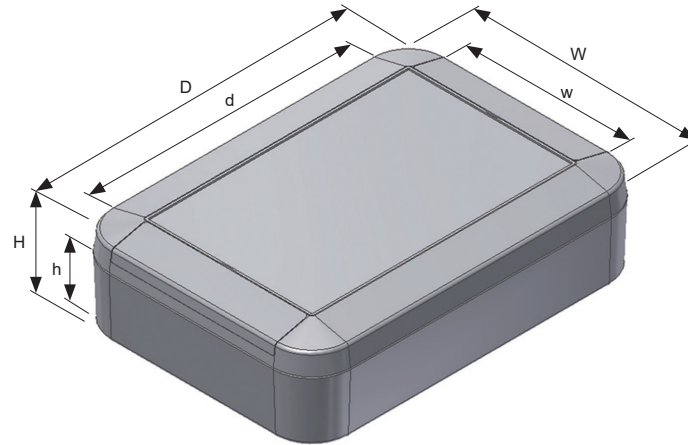


Components

No.	Part name	Pcs	Material / Color
1	Top cover	1	ASA UL94HB / White gray : Flame-resistant ABS UL94V-0 / Charcoal gray
2	Bottom base	1	ASA UL94HB / White gray : Flame-resistant ABS UL94V-0 / Charcoal gray
3	Blind lids	2	ASA UL94HB / White gray : Flame-resistant ABS UL94V-0 / Charcoal gray
4	Gasket	1	Silicone / Black
5	Screw	4 ~ 8	Stainless steel binding head screw / Unfinished

WP dimensions

■ DXF/DWG/PDF/3D PDF/STP drawings available on our website.



Product no. / Details

Product no.		IP Code	External dimensions			Internal dimensions			Screw	Recommended torque (N · m)	Weight (g)
● White gray (ASA)	● Charcoal gray (ABS)		W	D	H	w	d	h			
WP 5- 7-2G	WP 5- 7-2C	IP68	52	65	18	46	37	13	M2-8 × 4pcs	0.2 ~ 0.25	31.5
WP 5- 7-3G	WP 5- 7-3C	IP68	52	65	27	45	36.5	22	M2-8 × 4pcs	0.2 ~ 0.25	39.5
WP 6- 8-2G	WP 6- 8-2C	IP68	60	80	20	53.5	52	14.7	M2-8 × 4pcs	0.25 ~ 0.3	41.5
WP 6- 8-3G	WP 6- 8-3C	IP68	60	80	30	53	51	24.7	M2-8 × 4pcs	0.25 ~ 0.3	49
WP 8- 8-2G	WP 8- 8-2C	IP68	75	75	22	67	42	16.4	M2.5-8 × 4pcs	0.25 ~ 0.35	57.5
WP 8- 8-4G	WP 8- 8-4C	IP68	75	75	35	66	42	29.4	M2.5-16 × 4pcs	0.25 ~ 0.35	88.5
WP 8-10-2G	WP 8-10-2C	IP68	75	100	22	67	67	16	M2.5-8 × 4pcs	0.25 ~ 0.35	74
WP 8-10-4G	WP 8-10-4C	IP68	75	100	35	66	67	29	M2.5-16 × 4pcs	0.25 ~ 0.35	95
WP 9-13-3G	WP 9-13-3C	IP68	90	130	25	81	91	18	M2.5-8 × 6pcs	0.25 ~ 0.35	113
WP 9-13-4G	WP 9-13-4C	IP68	90	130	40	81	91	33	M2.5-16 × 6pcs	0.25 ~ 0.35	141
WP10-10-3G	WP10-10-3C	IP68	100	100	25	90	61	18	M2.5-8 × 4pcs	0.25 ~ 0.35	96
WP10-10-4G	WP10-10-4C	IP68	100	100	40	90	61	33	M2.5-16 × 4pcs	0.25 ~ 0.35	121
WP11-15-3G	WP11-15-3C	IP68	110	150	27	100	110	20	M2.5-8 × 6pcs	0.25 ~ 0.35	153
WP11-15-4G	WP11-15-4C	IP68	110	150	40	100	110	33	M2.5-16 × 6pcs	0.25 ~ 0.35	181
WP13-18-3G	WP13-18-3C	IP68	130	175	30	120	135	23	M2.5-8 × 6pcs	0.25 ~ 0.35	225
WP13-18-5G	WP13-18-5C	IP68	130	175	45	120	135	38	M2.5-16 × 6pcs	0.25 ~ 0.35	266
WP15-15-4G	WP15-15-4C	IP68	150	150	40	141	100	33.5	M3-8 × 4pcs	0.35 ~ 0.45	239
WP15-15-6G	WP15-15-6C	IP68	150	150	55	140	100	48.5	M3-8 × 4pcs	0.35 ~ 0.45	282.5
WP15-21-4G	WP15-21-4C	IP68	150	210	40	141	160	33.5	M3-8 × 6pcs	0.35 ~ 0.45	323
WP15-21-6G	WP15-21-6C	IP68	150	210	55	140	160	48.5	M3-8 × 6pcs	0.35 ~ 0.45	367.5
WP20-20-5G	WP20-20-5C	IP68	200	200	45	190	150	38.5	M3-8 × 8pcs	0.45 ~ 0.55	446
WP20-20-7G	WP20-20-7C	IP68	200	200	65	189	149	58.5	M3-8 × 8pcs	0.45 ~ 0.55	524.5
WP20-28-5G	WP20-28-5C	IP67	200	280	45	190	230	38.5	M3-8 × 8pcs	0.45 ~ 0.55	557.5
WP20-28-7G	WP20-28-7C	IP67	200	280	65	189	229	58.5	M3-8 × 8pcs	0.45 ~ 0.55	646

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

Accessories (Optional parts)



Pole mount bracket WPMB series
See page 123



Rubber feet PFRF series



TORX screw MR series
See page 124



PCB mounting screw EM series
See page 398



Protective vent PMF • CVP series
See page 197 ~ 200



Cable gland
See page 181 ~ 193



Pole mounting belt PKB-10 series
See page 208



Tapping standoff TPS series
See page 397

WPMB series

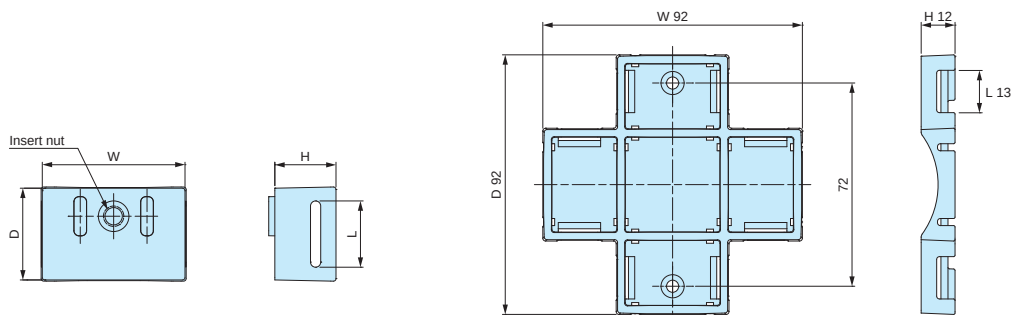
POLE MOUNTING BRACKET for WP



- Pole mount bracket made from weather resistant ASA material.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its IP67 protection.
- WPMB-M4-2 can be used for both vertical and horizontal installation.
- Together with WPMB series, the PKB series mounting belt allows the unit to be mounted onto a pole.

WPMB dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



WPMB-M3 • WPMB-M4

WPMB-M4-2

Color Type

Code	Color
G	White gray
D	Dark gray

Product no. / Details

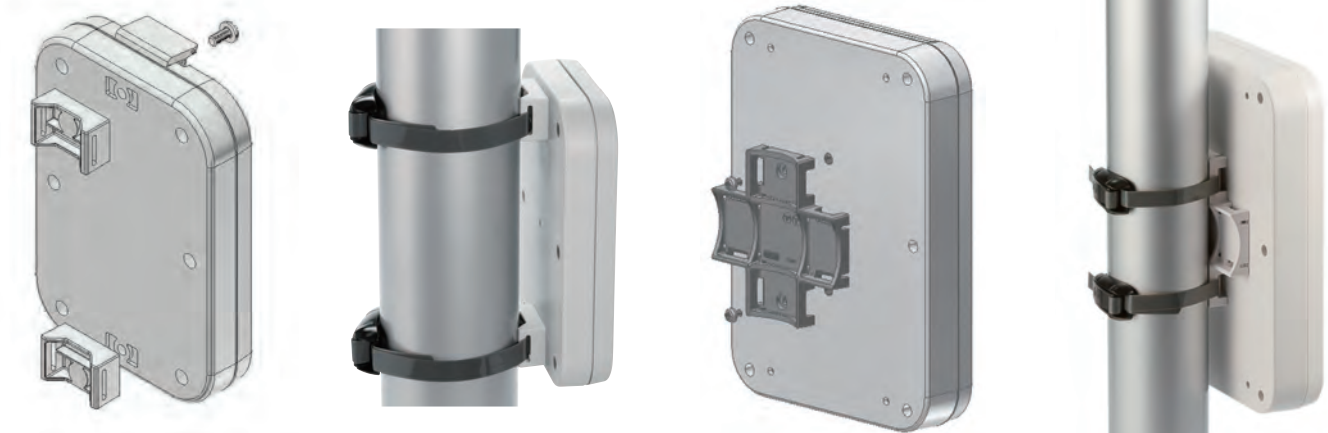
■ Please suffix color code at the end of the product number.

Product no.	Dimensions				Screw	Suitable models	Recommended torque (N · m)	Weight (g)	Pack of
	W	D	H	L					
WPMB-M3□	18	14	9.5	11	Stainless steel M3-6 x 2 pcs	WP5-7-2 • 5-7-3 • 6-8-2 • 6-8-3 • 8-8-2 • 8-8-4 • 8-10-2 • 8-10-4	0.4 ~ 0.45	3	2
WPMB-M4□	28	18	12	13	Stainless steel M4-8 x 2 pcs	WP9-13-3 • 9-13-4 • 10-10-3 • 10-10-4 • 11-15-3 • 11-15-4 • 13-18-3 • 13-18-5	0.45 ~ 0.5	10	2
WPMB-M4-2□	92	92	12	13	Stainless steel M4-6 x 2 pcs	WP15-15-4 • 15-15-6 • 15-21-4 • 15-21-6 • 20-20-5 • 20-20-7 • 20-28-5 • 20-28-7	0.45 ~ 0.5	24	1

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

WPMB-M3 / WPMB-M4

WPMB-M4-2

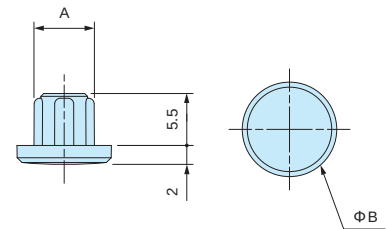


PFRF series

RUBBER FEET



PFRF dimensions



■ STP drawings available on our website.

- Recommended to be used with WP series as a desktop-type unit.
- No additional hole milling is required as the rubber feet fits snugly into the screw holes.
- Made from elastomer material.
- Unavailable for use with WP5-7-2, 5-7-3, 6-8-2, and 6-8-3 models.

Product no. / Details

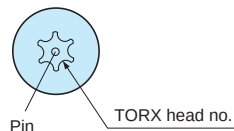
Product no.	Dimensions		Material	Color	Suitable models	Pack of
	A	B				
PFRF-M2.5D	6.4	10	Elastomer UL94HB	Dark gray	WP8-8-2 • 8-8-4 • 8-10-2 • 8-10-4 • 9-13-3 • 9-13-4 • 10-10-3 • 10-10-4 • 11-15-3 • 11-15-4 • 13-18-3 • 13-18-5	4
PFRF-M3D	7.2	11	Elastomer UL94HB	Dark gray	WP15-15-4 • 15-15-6 • 15-21-4 • 15-21-6 • 20-20-5 • 20-20-7 • 20-28-5 • 20-28-7	4

MR series

TORX SCREW



Head type (with pin)



- Recommended to be used for tamper resistance, or for an elegant look and feel.
- Requires the use of a specialized screwdriver.
- Unavailable for use with WP5-7-2, 5-7-3, 6-8-2, and 6-8-3 models.

Product no. / Details

Product no.	Dimensions		TORX head no.	Material	Finish	Suitable models	Pack of
	M	L					
MR2.5-8ST	2.5	8	T 8 (with pin)	Stainless steel	Unfinished	WP8-8-2 • 8-10-2 • 9-13-3 • 10-10-3 • 11-15-3 • 13-18-3/WSC series	20
MR2.5-16ST	2.5	16	T 8 (with pin)	Stainless steel	Unfinished	WP8-8-4 • 8-10-4 • 9-13-4 • 10-10-4 • 11-15-4 • 13-18-5	20
MR3-8ST	3	8	T 10 (with pin)	Stainless steel	Unfinished	WP15-15-4 • 15-15-6 • 15-21-4 • 15-21-6 • 20-20-5 • 20-20-7 • 20-28-5 • 20-28-7	20

Effect of PMF protective vent on WP series box

WP series enclosure comes with a silicone gasket, which allows the enclosure to be airtight when assembled.

When used in environments where there are large temperature fluctuations or differences, the internal and external pressure will become uneven. If this pressure within is unable to be properly vented, it may cause the enclosure to deform and warp.

By installing the PMF series protective vent, it will assist in equalizing the air pressure, and prevent potential deformation.

Evaluation Target

1. WP20-28-7G - 2 pcs / 2. WP20-28-7G with PMF-12HAS - 2 pcs

Test Conditions

Device : Constant temperature/humidity test chamber - LH43-W14P

Make : NAGANO SCIENCE CO., LTD.

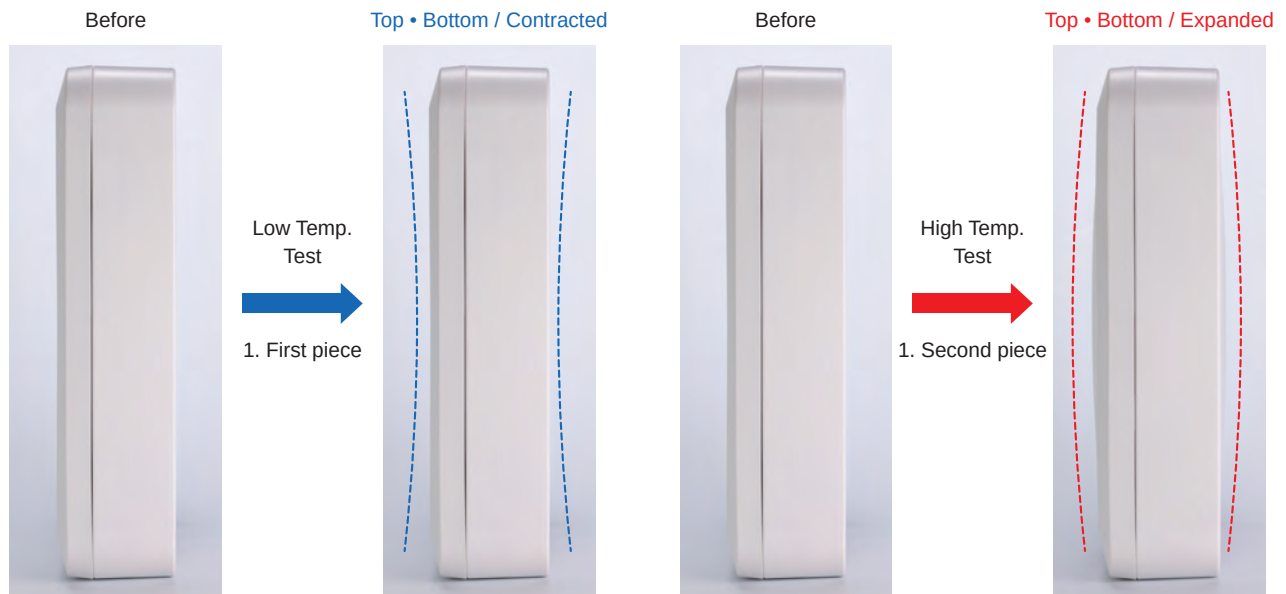
Testing in -20°C ~ +60°C (Operating temperature for WP series)

Low Temperature : -20°C / 96 hours • High Temperature : +60°C / 96 hours

Test Result

1. WP20-28-7G - 2 pcs

Uneven internal and external pressure causes deformation of the enclosure.



Test Result

2. WP20-28-7G with PMF-12HAS - 2 pcs

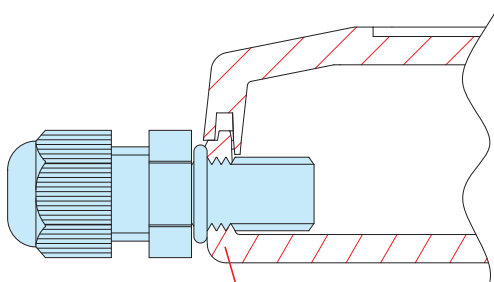
Equalized pressure from the usage of a protective vent prevents deformation of the enclosure.



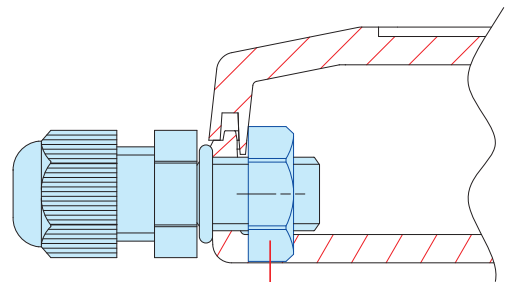
Information on installation of cable glands



- When affixing on cable glands to areas without sufficient space, the nut may not be able to be properly secured on.
For such instances, a thread-hole should be made for the cable gland to be directly screwed into without utilizing the nut.

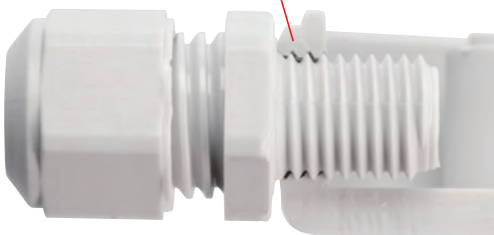


Cross-section



Obstruction

- Thread-hole sizes from M6-M32, and PG7-PG21 are possible with our customization services



- Please utilize a cable gland from our available range of cable gland accessories.
Refer to page 181 ~ 193 for more information.



IP65 LATCH-HINGED PLASTIC BOX



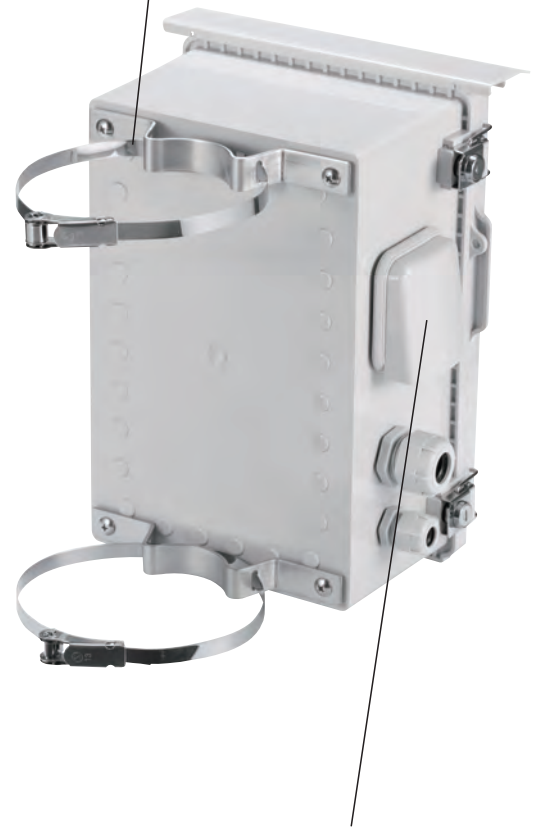
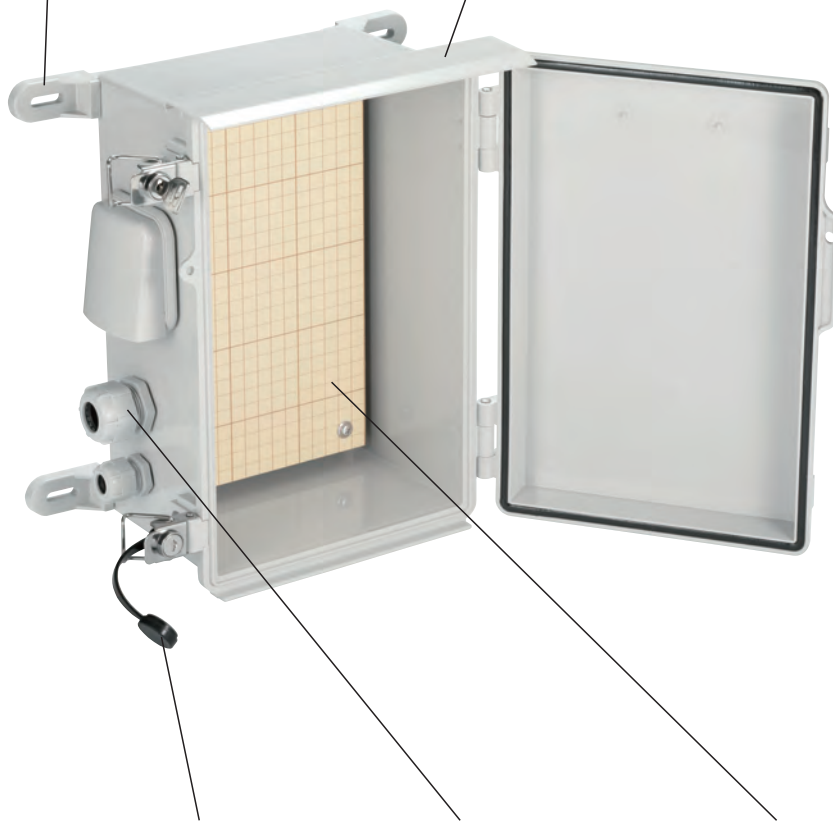
Stainless steel and plastic mounting brackets are available.
See page 146



BCAR • BCPR series come with an attachable BRF series outdoor roof.
See page 135 ~ 136



Pole mounting bracket for pole installation
See page 205 ~ 208



Dust protection cap (for lock/key type)
See page 142



Cable gland
For waterproofing enclosure openings to insert cables and wires
See page 181 ~ 193



Mounting plate
3 types of mounting plates are available (plastic / steel / wood)
See page 143 ~ 145



Ventilation cover
For heat dissipation and prevention of condensation build-up
See page 202

APPLICATION EXAMPLE

Universal plastic enclosure series suitable for a wide range of applications such as FA/control, electrical switchboard, network communication and more.

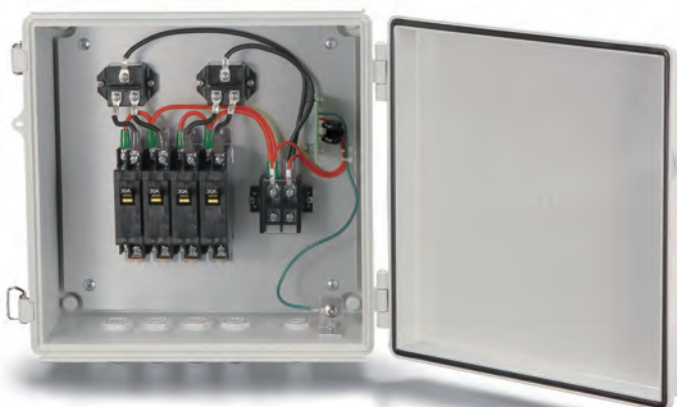
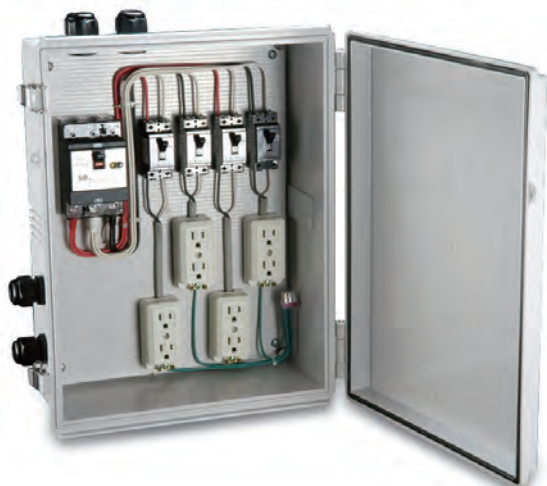
Outdoor WiFi Spot



Solar Power Junction Box



Power Switchboard Box



8 Channel Data Logger for Agriculture



Environmental Data Measurement and Controller Unit



"SenSu" Communication Unit with Sensor



Network Sensor System for Agriculture



Wildlife Damage Monitoring System



Valve Controller



Building Surveillance Unit



Digital Pressure Gauge



Radiation Monitor



Power Saver for Air Conditioning



Anemometer



Water Gauge



Monitoring Camera

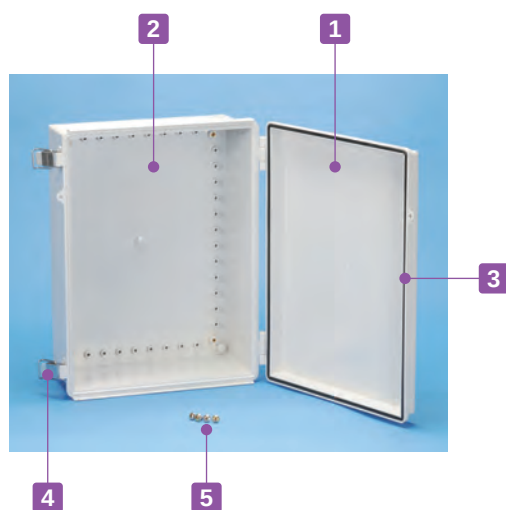


BCAP series

IP65 LATCH-HINGED ABS PLASTIC BOX

BCPC series

IP65 LATCH-HINGED POLYCARBONATE PLASTIC BOX



Technical Data

Protection class: IP65
 Operating temperature:
 BCAP -10°C ~ +60°C
 BCPC -20°C ~ +75°C

■ UL certified BC-C series is also available.
 See website for details.

- IP65 latch-hinged box for easy opening and closing.
- 50 different sizes available.
- Applicable for various uses in fields such as FA, network communication, power switch controls and more.
- BCAP series is made of white gray ABS with 2 different cover types (white gray ABS and transparent polycarbonate) available.
- BCPC series is made of light gray UL94V-0 polycarbonate, which has good heat resistant properties.

Components : BCAP series

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB • Polycarbonate UL94V-0	White gray • Transparent
2	Base	1	ABS UL94HB	White gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Components : BCPC series

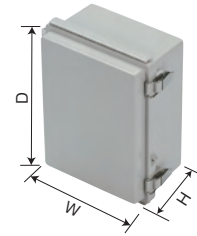
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Color Type

Color code	Top cover color / Material	Base color / Material
BCAP[G]	White gray / ABS	White gray / ABS
BCAP[T]	Transparent / Polycarbonate	White gray / ABS
BCPC[S]	Light gray / Polycarbonate	Light gray / Glass fiber filled polycarbonate

■ Please suffix color code at the end of the product number.



BCAP Product no. / Details

Product no.	W	D	H	Weight (g)	
				G type	T type
BCAP091207□	90	120	70	196	204
BCAP091208□	90	120	85	212	221
BCAP101507□	100	150	70	272	281
BCAP101508□	100	150	85	291	300
BCAP112107□	110	210	75	359	378
BCAP112110□	110	210	100	422	420
BCAP112607□	110	260	75	431	446
BCAP112610□	110	260	100.5	484	500
BCAP131508□	135	155	85	356	357
BCAP131808□	135	185	85.5	381	410
BCAP131810□	135	185	100.5	396	402
BCAP151509□	150	150	90	343	353
BCAP151512□	150	150	120.5	411	425
BCAP162110□	160	210	100	468	486
BCAP162113□	160	210	130	517	537
BCAP162610□	160	260	100	577	601
BCAP162613□	160	260	130	673	701
BCAP172210□	170	220	105	545	581
BCAP172711□	170	270	110.5	670	680
BCAP192810□	190	280	100.5	722	746
BCAP192814□	190	280	141	877	901
BCAP203013□N	200	300	130	921	954
BCAP203015□N	200	300	150	989	1,022
BCAP203018□N	200	300	180	1,110	1,143
BCAP212110□	210	210	100	630	656
BCAP212113□	210	210	130	704	726
BCAP253515□N	250	350	150	1,278	1,320
BCAP253518□N	250	350	180	1,415	1,456
BCAP282813□	280	280	130.5	1,167	1,200
BCAP283813□	280	380	130	1,455	1,512
BCAP303015□	300	300	151	1,339	1,418
BCAP303018□	300	300	181	1,495	1,576
BCAP304012□	300	400	120	1,508	1,575
BCAP304015□	300	400	150	1,563	1,675
BCAP304018□	300	400	181	1,719	1,853
BCAP353515□	350	350	150	1,693	1,764
BCAP353518□	350	350	181	1,845	1,906
BCAP354512□	350	450	120	2,068	2,167
BCAP354516□	350	450	160	2,382	2,514
BCAP354520□	350	450	201	2,646	2,794
BCAP405016□	400	500	160	2,660	2,839
BCAP405020□	400	500	201	3,119	3,232
BCAP406018□	400	600	181	3,542	3,652
BCAP406023□	400	600	231	3,870	4,044
BCAP506018□	530	630	185	5,438	5,611
BCAP506025□	530	630	255	6,078	6,273
BCAP507018G	530	730	188	6,241	—
BCAP507025G	530	730	258	6,911	—
BCAP608018G	630	830	188	8,131	—
BCAP608028G	630	830	288	9,570	—

■ BCAP507018, 507025, 608018, and 608028 models are only available as G color type.

BCPC Product no. / Details

Product no.	W	D	H	Weight (g)
BCPC091207S	90	120	70	226
BCPC091208S	90	120	85	247
BCPC101507S	100	150	70	312
BCPC101508S	100	150	85	336
BCPC112107S	110	210	75	420
BCPC112110S	110	210	100	473
BCPC112607S	110	260	75	493
BCPC112610S	110	260	100.5	569
BCPC131508S	135	155	85	406
BCPC131808S	135	185	85.5	452
BCPC131810S	135	185	100.5	448
BCPC151509S	150	150	90	395
BCPC151512S	150	150	120.5	482
BCPC162110S	160	210	100	556
BCPC162113S	160	210	130	611
BCPC162610S	160	260	100	671
BCPC162613S	160	260	130	779
BCPC172210S	170	220	105	642
BCPC172711S	170	270	110.5	775
BCPC192810S	190	280	100.5	858
BCPC192814S	190	280	141	1,028
BCPC203013SN	200	300	130	1,070
BCPC203015SN	200	300	150	1,150
BCPC203018SN	200	300	180	1,295
BCPC212110S	210	210	100	742
BCPC212113S	210	210	130	827
BCPC253515SN	250	350	150	1,485
BCPC253518SN	250	350	180	1,648
BCPC282813S	280	280	130.5	1,371
BCPC283813S	280	380	130	1,695
BCPC303015S	300	300	151	1,610
BCPC303018S	300	300	181	1,760
BCPC304012S	300	400	120	1,846
BCPC304015S	300	400	150	1,862
BCPC304018S	300	400	181	2,030
BCPC353515S	350	350	150	2,045
BCPC353518S	350	350	181	2,142
BCPC354512S	350	450	120	2,397
BCPC354516S	350	450	160	2,826
BCPC354520S	350	450	201	3,151
BCPC405016S	400	500	160	3,188
BCPC405020S	400	500	201	3,811
BCPC406018S	400	600	181	4,153
BCPC406023S	400	600	231	4,637
BCPC506018S	530	630	185	6,305
BCPC506025S	530	630	255	7,213
BCPC507018S	530	730	188	7,410
BCPC507025S	530	730	258	8,200
BCPC608018S	630	830	188	9,820
BCPC608028S	630	830	288	11,550

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



Pole mounting bracket SSK series
See page 205 ~ 208



Cable gland
See page 181 ~ 193

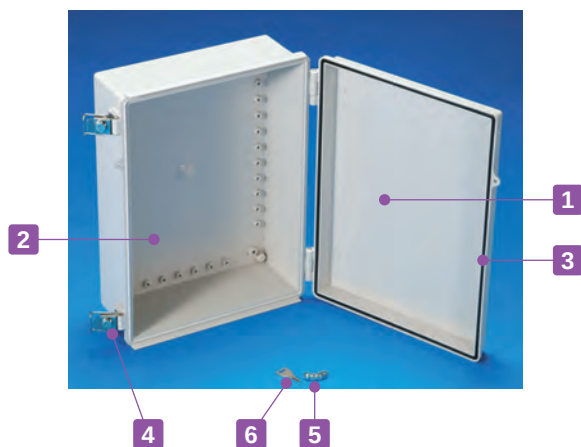


Ventilation parts
See page 195 ~ 202

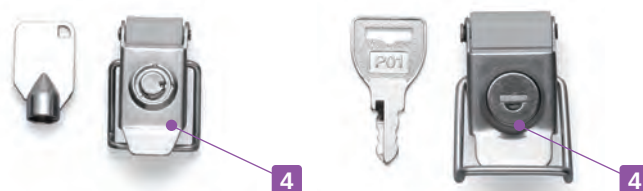


Technical Data

Protection class : IP65
Operating temperature : -20°C ~ +75°C



*Lock types vary according to box size.



- Lockable enclosure best used for tamper prevention in FA, control box, and network communication fields.
- BCPK polycarbonate box is resistant against heat and flames.
50 different sizes available and selectable from 2 different cover types, Light gray and Transparent (BTO).

Box size
BCPK091207 ~ 172711
BCPK212110, 212113

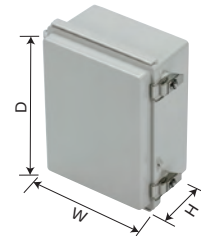
Box size
BCPK192810 ~ 203018
BCPK253515 ~ 608028

- BCPK507018, 507025, 608018, and 608028 models are only available as S color type.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Gasket	1	Polyurethane	Black
4	Latch	1 ~ 3	Stainless steel	Unfinished
5	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate
6	Key	1 ~ 3	Diecast zinc • Brass	Chrome plated • Nickel plated

- Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.
- Quantity of keys provided vary by the number of locks present.



Product no. / Details

Product no.	W	D	H	Weight (g)	Delivery time
BCPK091207S	90	120	70	242	In stock
BCPK091208S	90	120	85	264	In stock
BCPK101507S	100	150	70	339	In stock
BCPK101508S	100	150	85	360	In stock
BCPK112107S	110	210	75	437	In stock
BCPK112110S	110	210	100	501	In stock
BCPK112607S	110	260	75	520	In stock
BCPK112610S	110	260	100.5	585	In stock
BCPK131508S	135	155	85	430	In stock
BCPK131808S	135	185	85.5	474	In stock
BCPK131810S	135	185	100.5	471	In stock
BCPK151509S	150	150	90	419	In stock
BCPK151512S	150	150	120.5	507	In stock
BCPK162110S	160	210	100	563	In stock
BCPK162113S	160	210	130	630	In stock
BCPK162610S	160	260	100	728	In stock
BCPK162613S	160	260	130	805	In stock
BCPK172210S	170	220	105	664	In stock
BCPK172711S	170	270	110.5	771	In stock
BCPK192810S	190	280	100.5	875	In stock
BCPK192814S	190	280	141	1,065	In stock
BCPK203013SN	200	300	130	1,098	In stock
BCPK203015SN	200	300	150	1,179	In stock
BCPK203018SN	200	300	180	1,324	In stock
BCPK212110S	210	210	100	743	In stock
BCPK212113S	210	210	130	822	In stock
BCPK253515SN	250	350	150	1,513	In stock
BCPK253518SN	250	350	180	1,676	In stock
BCPK282813S	280	280	130.5	1,391	In stock
BCPK283813S	280	380	130	1,811	In stock
BCPK303015S	300	300	151	1,670	In stock
BCPK303018S	300	300	181	1,782	In stock
BCPK304012S	300	400	120	1,858	In stock
BCPK304015S	300	400	150	1,912	In stock
BCPK304018S	300	400	181	2,083	In stock
BCPK353515S	350	350	150	2,067	In stock
BCPK353518S	350	350	181	2,175	In stock
BCPK354512S	350	450	120	2,442	In stock
BCPK354516S	350	450	160	2,863	In stock
BCPK354520S	350	450	201	3,156	In stock
BCPK405016S	400	500	160	3,149	In stock
BCPK405020S	400	500	201	3,725	In stock
BCPK406018S	400	600	181	4,159	In stock
BCPK406023S	400	600	231	4,639	In stock
BCPK506018S	530	630	185	5,339	In stock
BCPK506025S	530	630	255	7,136	In stock
BCPK507018S	530	730	188	7,470	In stock
BCPK507025S	530	730	258	8,260	In stock
BCPK608018S	630	830	188	9,880	In stock
BCPK608028S	630	830	288	11,610	In stock

Product no. / Details

Product no.	W	D	H	Weight (g)	Delivery time
BCPK091207T	90	120	70	237	2 months
BCPK091208T	90	120	85	261	2 months
BCPK101507T	100	150	70	337	2 months
BCPK101508T	100	150	85	335	2 months
BCPK112107T	110	210	75	444	2 months
BCPK112110T	110	210	100	509	2 months
BCPK112607T	110	260	75	528	2 months
BCPK112610T	110	260	100.5	594	2 months
BCPK131508T	135	155	85	421	2 months
BCPK131808T	135	185	85.5	475	2 months
BCPK131810T	135	185	100.5	478	2 months
BCPK151509T	150	150	90	422	2 months
BCPK151512T	150	150	120.5	508	2 months
BCPK162110T	160	210	100	721	2 months
BCPK162113T	160	210	130	639	2 months
BCPK162610T	160	260	100	738	2 months
BCPK162613T	160	260	130	825	2 months
BCPK172210T	170	220	105	681	2 months
BCPK172711T	170	270	110.5	794	2 months
BCPK192810T	190	280	100.5	900	2 months
BCPK192814T	190	280	141	1,094	2 months
BCPK203013TN	200	300	130	1,097	2 months
BCPK203015TN	200	300	150	1,178	2 months
BCPK203018TN	200	300	180	1,323	2 months
BCPK212110T	210	210	100	756	2 months
BCPK212113T	210	210	130	847	2 months
BCPK253515TN	250	350	150	1,510	2 months
BCPK253518TN	250	350	180	1,673	2 months
BCPK282813T	280	280	130.5	1,433	2 months
BCPK283813T	280	380	130	1,733	2 months
BCPK303015T	300	300	151	1,682	2 months
BCPK303018T	300	300	181	1,795	2 months
BCPK304012T	300	400	120	1,872	2 months
BCPK304015T	300	400	150	1,926	2 months
BCPK304018T	300	400	181	2,098	2 months
BCPK353515T	350	350	150	1,999	2 months
BCPK353518T	350	350	181	2,163	2 months
BCPK354512T	350	450	120	2,429	2 months
BCPK354516T	350	450	160	2,848	2 months
BCPK354520T	350	450	201	3,140	2 months
BCPK405016T	400	500	160	3,152	2 months
BCPK405020T	400	500	201	3,729	2 months
BCPK406018T	400	600	181	4,164	2 months
BCPK406023T	400	600	231	4,645	2 months
BCPK506018T	530	630	185	6,151	2 months
BCPK506025T	530	630	255	8,220	2 months
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Dust protection cap BCC series
See page 142



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



Cable gland
See page 181 ~ 193



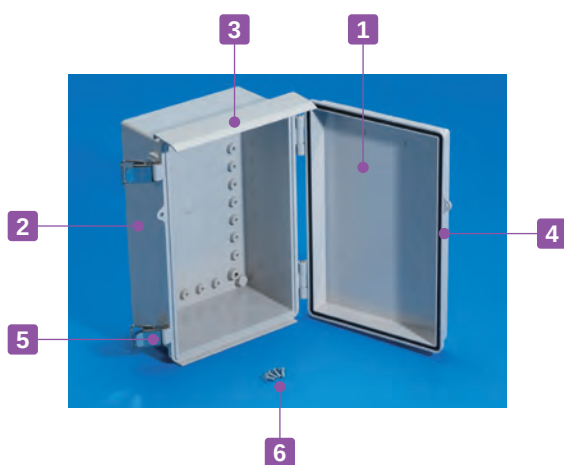
Ventilation parts
See page 195 ~ 202

BCAR series

IP65 ABS PLASTIC BOX with OUTDOOR ROOF

BCPR series

IP65 POLYCARBONATE PLASTIC BOX with OUTDOOR ROOF



Technical Data

Protection class : IP65
 Operating temperature:
 BCAR -10°C ~ +60°C
 BCPR -20°C ~ +75°C

- Suitable for outdoor use by equipping easy snap-on roof attachment.
- 44 different sizes available.
- Applicable for various uses in fields such as FA, network communication, power switch controls and more.
- BCAR series is made of white gray ABS with 2 different cover types (white gray ABS and transparent polycarbonate) available.
- BCPR series is made of light gray UL94V-0 polycarbonate, which has good heat resistant properties.
- Transparent cover type is not available for BCAR507018, 507025, 608018, and 608028 models.

Components : BCAR series

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	ABS UL94HB • Polycarbonate UL94V-0	White gray • Transparent
2	Base	1	ABS UL94HB	White gray
3	Roof	1	PVC	White gray
4	Gasket	1	Polyurethane	Black
5	Latch	1 ~ 3	Stainless steel	Unfinished
6	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Components : BCPR series

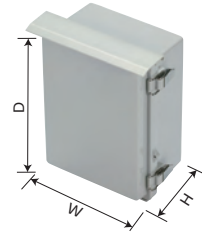
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Polycarbonate UL94V-0	Light gray
2	Base	1	Glass fiber filled polycarbonate UL94V-0	Light gray
3	Roof	1	PVC	Light gray
4	Gasket	1	Polyurethane	Black
5	Latch	1 ~ 3	Stainless steel	Unfinished
6	Screw for mounting plate	2 ~ 8	Steel	Trivalent chromate

■ Stainless steel mounting brackets are included together with the following models : 506018, 506025, 507018, 507025, 608018, and 608028.

Color Type

Color code	Top cover color / Material	Base color / Material
BCAR 	White gray / ABS	White gray / ABS
BCAR 	Transparent / Polycarbonate	White gray / ABS
BCPR 	Light gray / Polycarbonate	Light gray / Glass fiber filled polycarbonate

■ Please suffix color code at the end of the product number.



BCAR Product no. / Details

Product no.	W	D	H	Weight (g)	
				G type	T type
BCAR091207□	90	120	70	213	220
BCAR091208□	90	120	85	228	237
BCAR101507□	100	150	70	291	300
BCAR101508□	100	150	85	309	318
BCAR112107□	110	210	75	379	398
BCAR112110□	110	210	100	442	440
BCAR112607□	110	260	75	451	466
BCAR112610□	110	260	100.5	504	519
BCAR131508□	135	155	85	379	381
BCAR131808□	135	185	85.5	404	434
BCAR131810□	135	185	100.5	420	426
BCAR162110□	160	210	100	495	513
BCAR162113□	160	210	130	544	564
BCAR162610□	160	260	100	605	629
BCAR162613□	160	260	130	701	729
BCAR172210□	170	220	105	570	606
BCAR172711□	170	270	110.5	700	710
BCAR192810□	190	280	100.5	755	778
BCAR192814□	190	280	141	909	933
BCAR203013□N	200	300	130	959	992
BCAR203015□N	200	300	150	1,027	1,060
BCAR203018□N	200	300	180	1,148	1,181
BCAR212110□	210	210	100	666	692
BCAR212113□	210	210	130	740	762
BCAR253515□N	250	350	150	1,324	1,366
BCAR253518□N	250	350	180	1,461	1,503
BCAR282813□	280	280	130.5	1,218	1,251
BCAR283813□	280	380	130	1,506	1,563
BCAR303015□	300	300	151	1,393	1,472
BCAR303018□	300	300	181	1,549	1,630
BCAR304012□	300	400	120	1,562	1,629
BCAR304015□	300	400	150	1,617	1,729
BCAR304018□	300	400	181	1,773	1,907
BCAR353515□	350	350	150	1,757	1,827
BCAR353518□	350	350	181	1,908	1,970
BCAR354512□	350	450	120	2,140	2,239
BCAR354516□	350	450	160	2,454	2,586
BCAR354520□	350	450	201	2,718	2,866
BCAR506018□	530	630	185	5,564	5,737
BCAR506025□	530	630	255	6,203	6,399
BCAR507018G	530	730	188	6,366	—
BCAR507025G	530	730	258	7,037	—
BCAR608018G	630	830	188	8,279	—
BCAR608028G	630	830	288	9,719	—

■ BCAR507018, 507025, 608018, and 608028 models are only available as G color type.

BCPR Product no. / Details

Product no.	W	D	H	Weight (g)
BCPR091207S	90	120	70	242
BCPR091208S	90	120	85	264
BCPR101507S	100	150	70	330
BCPR101508S	100	150	85	354
BCPR112107S	110	210	75	439
BCPR112110S	110	210	100	493
BCPR112607S	110	260	75	513
BCPR112610S	110	260	100.5	589
BCPR131508S	135	155	85	429
BCPR131808S	135	185	85.5	475
BCPR131810S	135	185	100.5	471
BCPR162110S	160	210	100	583
BCPR162113S	160	210	130	638
BCPR162610S	160	260	100	699
BCPR162613S	160	260	130	806
BCPR172210S	170	220	105	667
BCPR172711S	170	270	110.5	803
BCPR192810S	190	280	100.5	889
BCPR192814S	190	280	141	1,060
BCPR203013SN	200	300	130	1,108
BCPR203015SN	200	300	150	1,188
BCPR203018SN	200	300	180	1,333
BCPR212110S	210	210	100	777
BCPR212113S	210	210	130	862
BCPR253515SN	250	350	150	1,531
BCPR253518SN	250	350	180	1,694
BCPR282813S	280	280	130.5	1,422
BCPR283813S	280	380	130	1,747
BCPR303015S	300	300	151	1,665
BCPR303018S	300	300	181	1,814
BCPR304012S	300	400	120	1,901
BCPR304015S	300	400	150	1,917
BCPR304018S	300	400	181	2,084
BCPR353515S	350	350	150	2,109
BCPR353518S	350	350	181	2,206
BCPR354512S	350	450	120	2,471
BCPR354516S	350	450	160	2,899
BCPR354520S	350	450	201	3,224
BCPR506018S	530	630	185	6,431
BCPR506025S	530	630	255	7,339
BCPR507018S	530	730	188	7,630
BCPR507025S	530	730	258	8,420
BCPR608018S	630	830	188	10,040
BCPR608028S	630	830	288	11,770

■ Refer to page 137 ~ 140 for detailed dimensions.

Accessories (Optional parts)



Mounting plate BMP series
See page 143 ~ 145



Mounting bracket CK • BFL series
See page 146



Pole mounting bracket SSK series
See page 205 ~ 208



Cable gland
See page 181 ~ 193

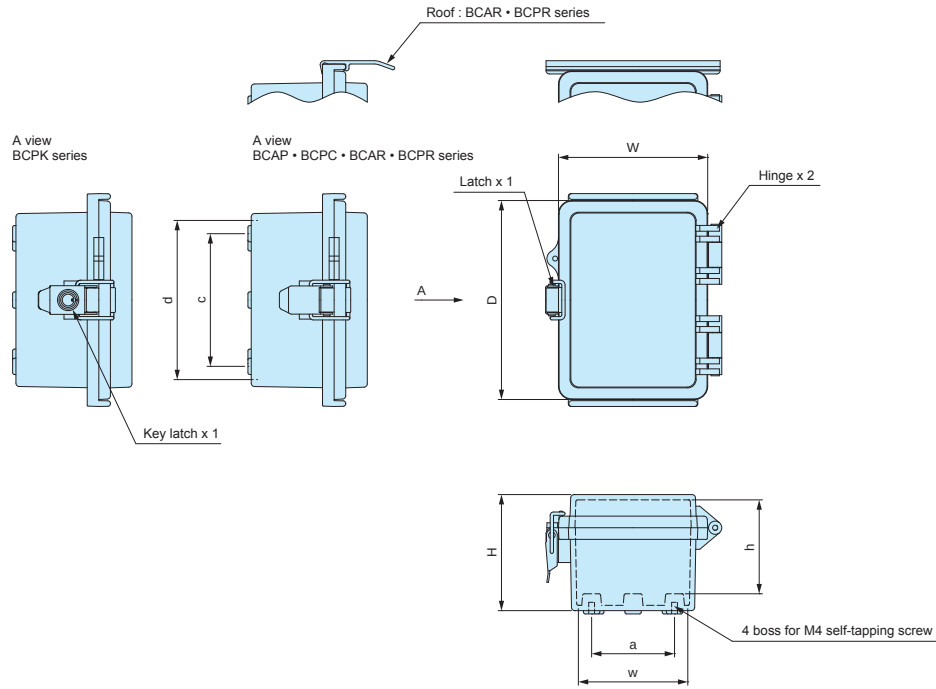


Ventilation parts
See page 195 ~ 202

BCAP • BCPC • BCPK • BCAR • BCPR dimensions

■ DXF/DWG/PDF drawings available on our website.

091207 • 091208



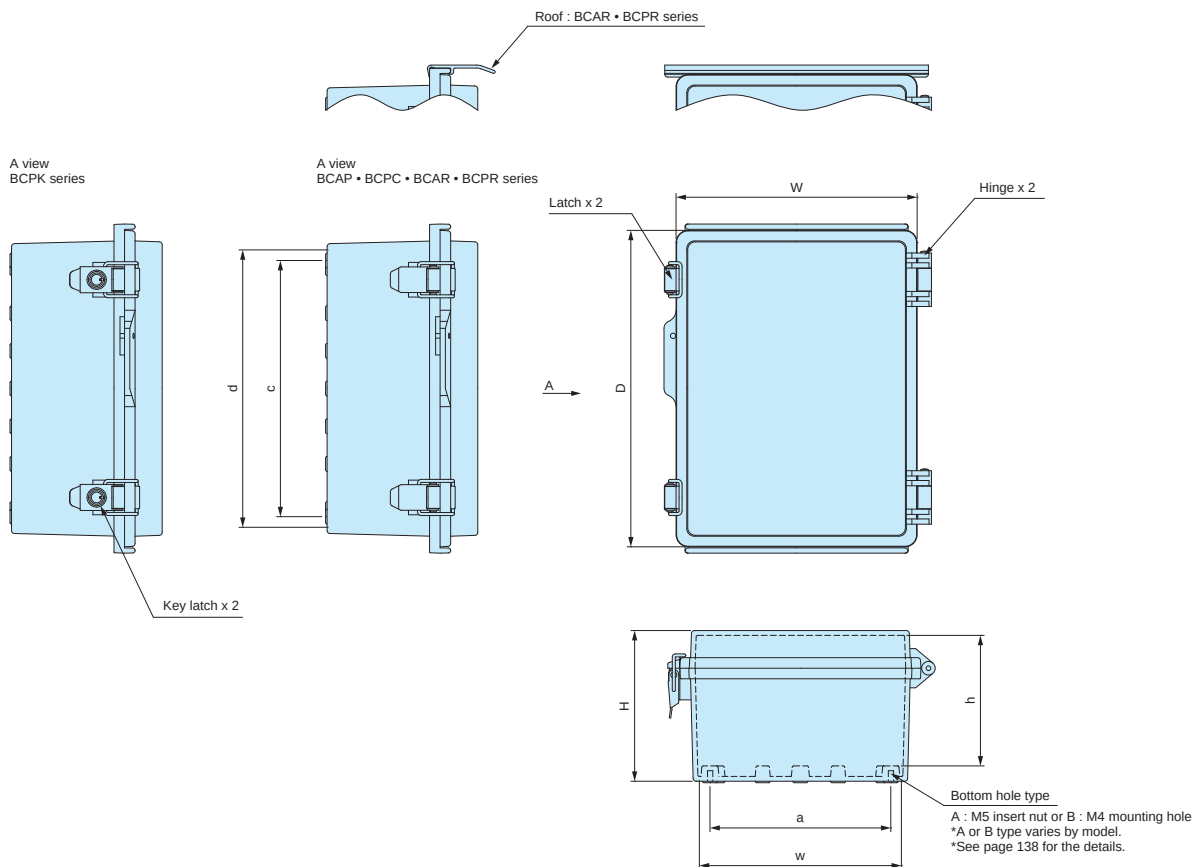
Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP • R, BCPC • K • R091207	90	120	70	66	96	56.5	50	80
BCAP • R, BCPC • K • R091208	90	120	85	66	96	71.5	50	80

■ K = BCPK series, R = BCAR • BCPR series.

101507 ~ 405020

※ Not available for BCAR • BCPR 151509, 151512, 405016, and 405020 models.





■ Number of bosses inside vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.

APPLICATION EXAMPLE



Surveillance Video Data Cloud Router

Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch		Bottom hole type
				w	d	h	a	c	
BCAP • R, BCPC • K • R101507	100	150	70	76	126	56.5	60	110	B
BCAP • R, BCPC • K • R101508	100	150	85	75.5	125.5	71.5	60	110	B
BCAP • R, BCPC • K • R112107	110	210	75	85.8	185.8	61.5	70	170	B
BCAP • R, BCPC • K • R112110	110	210	100	84.9	184.9	86.5	70	170	B
BCAP • R, BCPC • K • R112607	110	260	75	85.8	235.8	61.5	70	220	B
BCAP • R, BCPC • K • R112610	110	260	100.5	85.1	234.9	87.2	70	220	B
BCAP • R, BCPC • K • R131508	135	155	85	110.5	130.5	71.5	95	115	B
BCAP • R, BCPC • K • R131808	135	185	85.5	110.4	160.4	72.2	95	145	B
BCAP • R, BCPC • K • R131810	135	185	100.5	110.4	160.4	87.1	95	145	B
BCAP, BCPC • K 151509	150	150	90	125.7	125.7	75.5	120	120	B
BCAP, BCPC • K 151512	150	150	120.5	124	124	106	117	117	B
BCAP • R, BCPC • K • R162110	160	210	100	134	184	86.6	120	170	B
BCAP • R, BCPC • K • R162113	160	210	130	134	184	116.5	120	170	B
BCAP • R, BCPC • K • R162610	160	260	100	135.1	235.1	86.6	120	220	B
BCAP • R, BCPC • K • R162613	160	260	130	134	234	116.6	120	220	B
BCAP • R, BCPC • K • R172211	170	220	110.5	144.9	194.9	96.1	132	182	B
BCAP • R, BCPC • K • R172711	170	270	110.5	144.9	244.9	96.1	132	232	B
BCAP • R, BCPC • K • R192810	190	280	100.5	165.3	255.3	84.1	148	238	A
BCAP • R, BCPC • K • R192814	190	280	141	164.2	254.2	124.6	148	238	A
BCAP • R, BCPC • K • R203013□N	200	300	130	173.5	273.6	113.6	152	252	A
BCAP • R, BCPC • K • R203015□N	200	300	151.5	173.5	273.5	135.1	152	252	A
BCAP • R, BCPC • K • R203018□N	200	300	180.5	172.5	272.5	164.1	152	252	A
BCAP • R, BCPC • K • R212110	210	210	100	185.1	185.1	86.6	170	170	B
BCAP • R, BCPC • K • R212113	210	210	130	184	184	116.6	170	170	B
BCAP • R, BCPC • K • R253515□N	250	350	151	222.5	322.5	135.3	206	306	A
BCAP • R, BCPC • K • R253518□N	250	350	180	222.5	322.5	165.8	206	306	A
BCAP • R, BCPC • K • R282813	280	280	130.5	254	254	113.6	238	238	A
BCAP • R, BCPC • K • R283813	280	380	130	254	354	113.6	238	338	A
BCAP • R, BCPC • K • R303015	300	300	151	273	273	134.3	256	256	A
BCAP • R, BCPC • K • R303018	300	300	181	272.5	272.5	164.3	256	256	A
BCAP • R, BCPC • K • R304012	300	400	120	274.5	374.5	103.6	252	352	A
BCAP • R, BCPC • K • R304015	300	400	150	273.5	373.5	133.6	252	352	A
BCAP • R, BCPC • K • R304018	300	400	181	272.5	372.5	164.6	252	352	A
BCAP • R, BCPC • K • R353515	350	350	150	323.6	323.6	133.6	302	302	A
BCAP • R, BCPC • K • R353518	350	350	181	322.5	322.5	164.6	302	302	A
BCAP • R, BCPC • K • R354512	350	450	120	316.7	416.7	103.3	302	402	A
BCAP • R, BCPC • K • R354516	350	450	160	308.7	414.7	142.6	302	402	A
BCAP • R, BCPC • K • R354520	350	450	201	309.3	414.8	183.6	302	402	A
BCAP, BCPC • K 405016	400	500	160	360.4	466.6	144	352	452	A
BCAP, BCPC • K 405020	400	500	201	359.4	465.5	184	352.5	452.5	A

■ K = BCPK series, R = BCAR • BCPR series.

BCAP • BCPC • BCPK • BCAR • BCPR dimensions

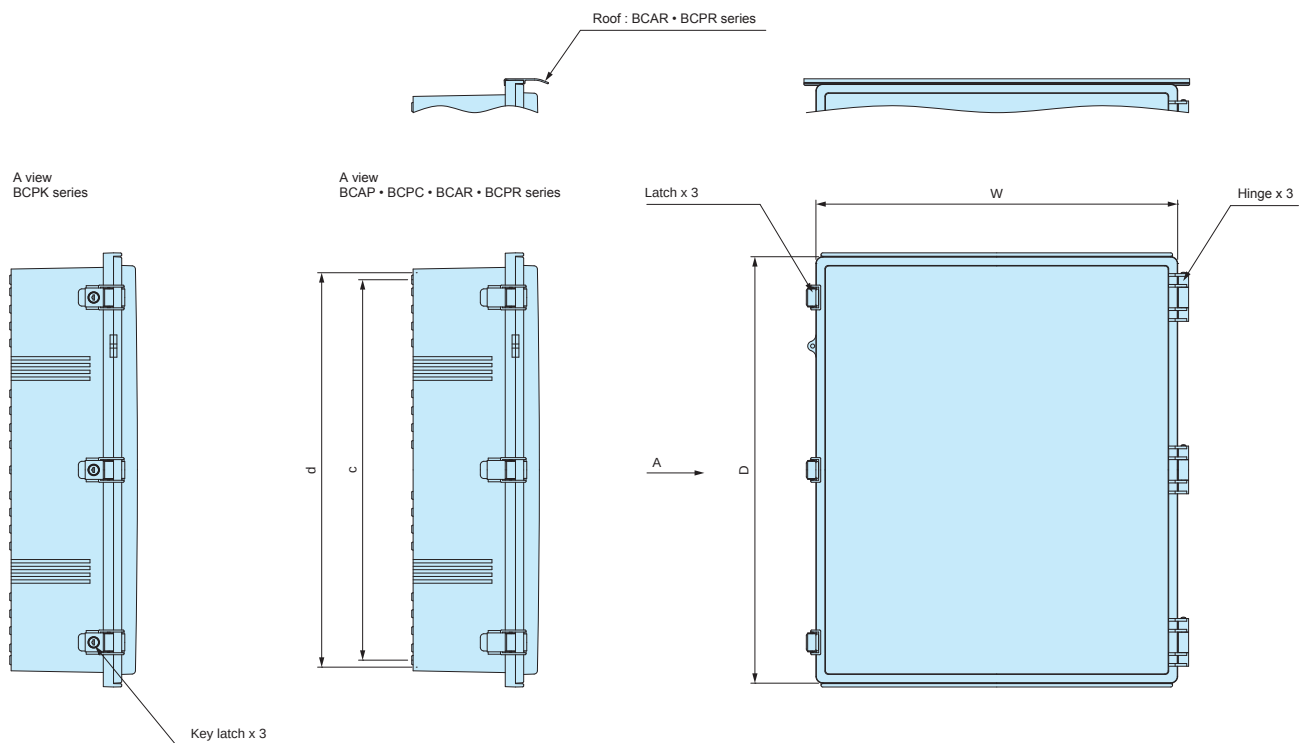
406018 ~ 507025

※ Not available for BCAR • BCPR 406018 and 406023 models.

■ DXF/DWG/PDF drawings available on our website.



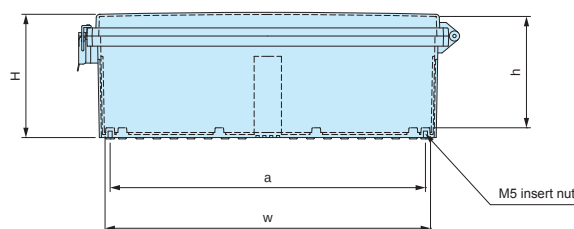
■ Number of bosses inside vary according to box size.
Refer to DXF/DWG/PDF drawings for more details.



Attention when locking the latch

1. Close latches on both ends first.
 2. Close center latch next.
- ※ Closing center latch first may cause a non-watertight seal.

Center latch must be closed last!

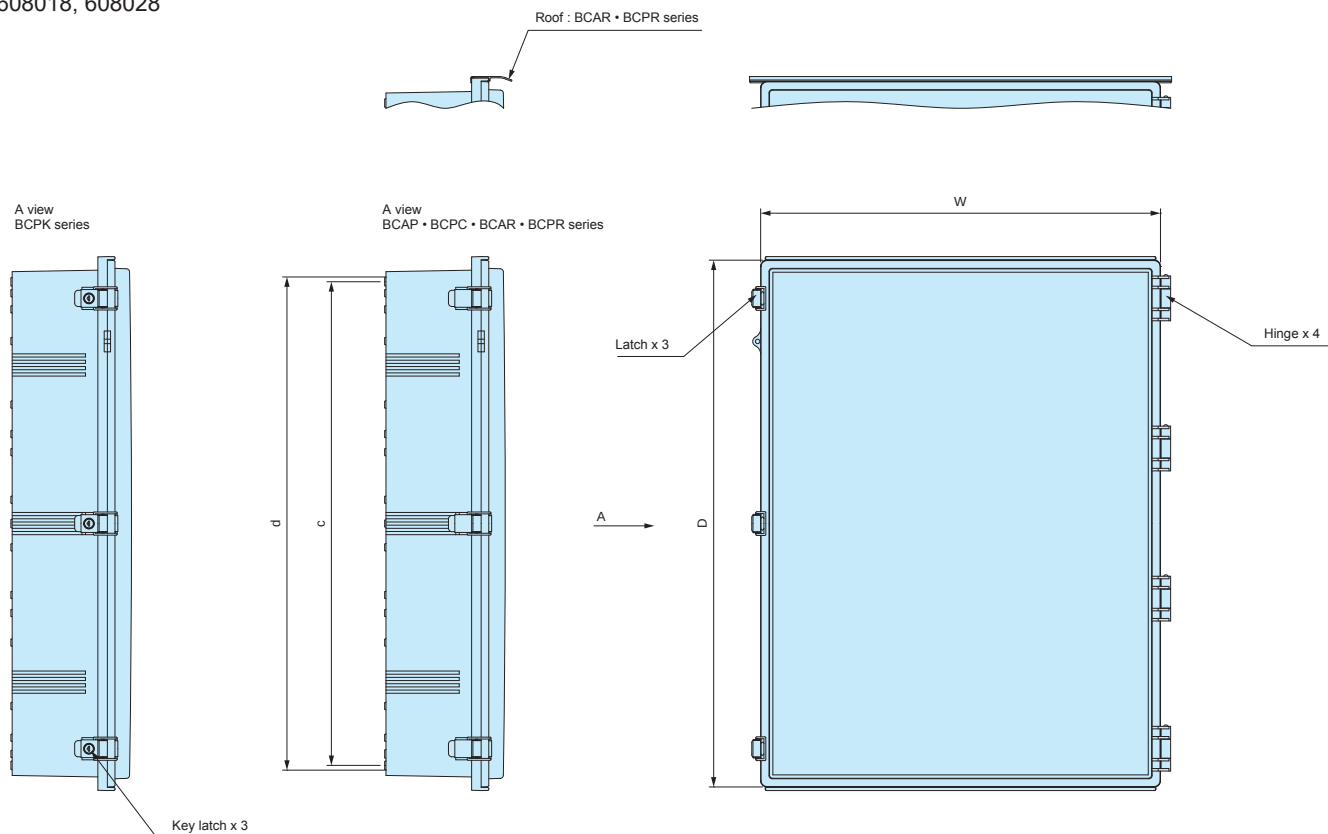


Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP, BCPC • K 406018	400	600	181	358.6	565.9	163.8	352.5	552.5
BCAP, BCPC • K 406023	400	600	231	356.9	564.1	213.8	352	552.5
BCAP, R, BCPC • K • R506018	530	630	185	476.8	576.8	163.6	462	562
BCAP, R, BCPC • K • R506025	530	630	255	474.6	574.6	233.6	462	562
BCAP, R, BCPC • K • R507018	530	730	188	477	677	166.1	462	662
BCAP, R, BCPC • K • R507025	530	730	255	475	676.2	236	462	662

■ K = BCPK series, R = BCAR • BCPR series.

608018, 608028

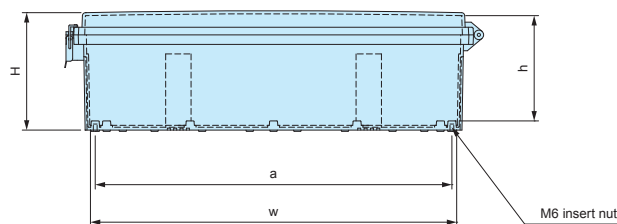


Attention when locking the latch

1. Close latches on both ends first.
2. Close center latch next.

※ Closing center latch first may cause a non-watertight seal.

Center latch must be closed last!

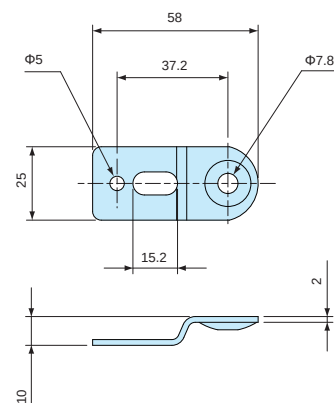


Product no. / Details

Product no.	W	D	H	Available range			Bottom hole pitch	
				w	d	h	a	c
BCAP • R, BCPC • K • R608018	630	830	188	575	777	165.6	562	762
BCAP • R, BCPC • K • R608028	630	830	288	573.5	773.5	265.8	562	762

■ K = BCPK series, R = BCAR • BCPR series.

Included stainless steel mounting bracket for 506018, 506025, 507018, 507025, 608018, and 608028



Components

Part name	Pcs	Material	Finish
Mounting bracket	6	Stainless steel	Unfinished
Screw	6	Steel	Trivalent chromate

BRF series

OUTDOOR ROOF



- Recommended to be used for outdoor environments for protection against rain etc.
- Snap-in easy installation.
- Available for use with BCAP, BCPC, and BCPK series' models except 151509, 151512, 405016, 405020, 406018, and 406023 models.

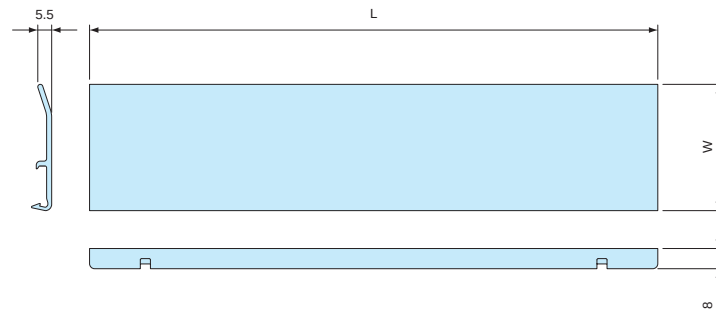
Color Type

Color code	Material	Color	Suitable models
G	PVC	White gray	BCAP
S	PVC	Light gray	BCPC • BCPK

BRF dimensions

Roof for 091207 ~ 353518

■ DXF/DWG/PDF drawings available on our website.

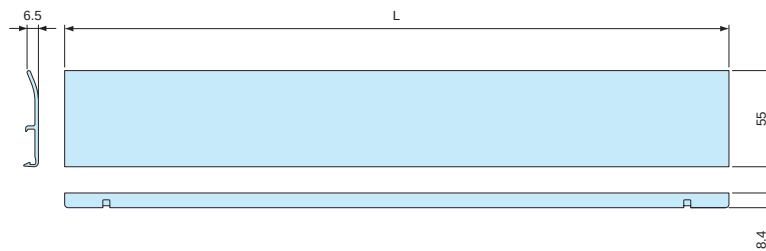


Product no. / Details

■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L	W
BRF- 90□	BCAP • BCPC • BCPK 091207 091208	105	45
BRF-100□	BCAP • BCPC • BCPK 101507 101508	115	45
BRF-110□	BCAP • BCPC • BCPK 112107 112110 112607 112610	125	45
BRF-135□	BCAP • BCPC • BCPK 131508 131808 131810	150	45
BRF-160□	BCAP • BCPC • BCPK 162110 162113 162610 162613	175	45
BRF-170□	BCAP • BCPC • BCPK 172711	185	45
BRF-1722□	BCAP • BCPC • BCPK 172210	180	45
BRF-190□	BCAP • BCPC • BCPK 192810 192814	205	45
BRF-210□	BCAP • BCPC • BCPK 212110 212113	225	45
BRF-200□N	BCAP • BCPC • BCPK 203013□N 203015□N 203018□N	225	50
BRF-250□N	BCAP • BCPC • BCPK 253515□N 253518□N	275	50
BRF-280□	BCAP • BCPC • BCPK 282813 283813	305	50
BRF-300□	BCAP • BCPC • BCPK 303015 303018 304012 304015 304018	325	50
BRF-350□	BCAP • BCPC • BCPK 353515 353518	375	50

Roof for 354512 ~ 354520



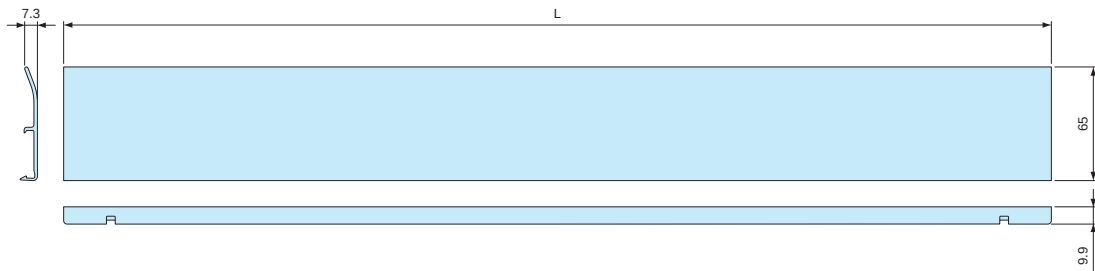
Product no. / Details

■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L
BRF-350L□	BCAP • BCPC • BCPK 354512 354516 354520	380

■ S color type is light gray painted.

Roof for 506018 ~ 608028



Product no. / Details

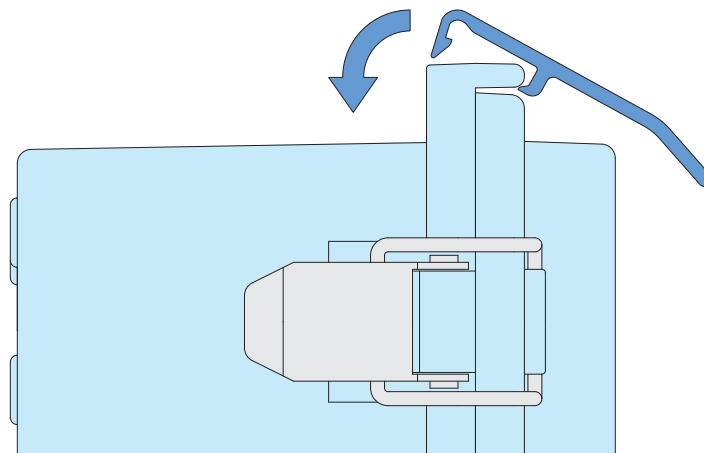
■ Please suffix the color code at the end of the product number.

Product no.	Suitable models	L
BRF-530□	BCAP • BCPC • BCPK 506018 506025 507018 507025	565
BRF-630□	BCAP • BCPC • BCPK 608018 608028	665

■ S color type is light gray painted.

■ How to install BRF outdoor roof

Refer to illustration.



BCC-1 DUST PROTECTION CAP



- Prevents dust and other foreign material entry.
- Protection against corrosion on key hole part in environments such as coastal areas.
- When ordering, please ensure that the quantity required corresponds to the number of latches on your selected model.

Product no. / Details

Product no.	Material	Color	Pack of
BCC-1	Silicone	Black	1

Suitable models

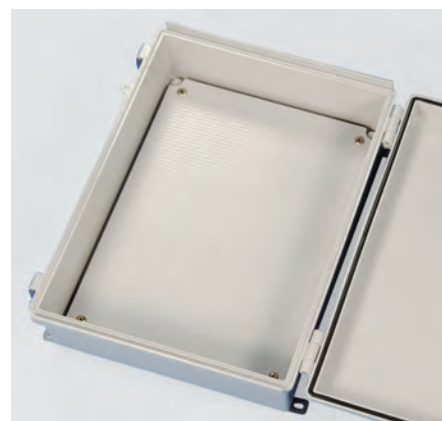
Suitable models	Required
BCPK192810 ~ 203018, 253515 ~ 405020	2
BCPK406018 ~ 608028	3

■ Not suitable for BCPK 212110, 212113, 172711 and smaller models.

BMP-P series

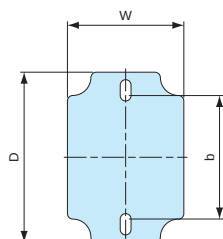
PLASTIC MOUNTING PLATE

- Light weight ABS plastic mounting plate.

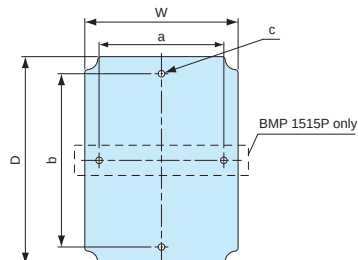


BMP-P dimensions

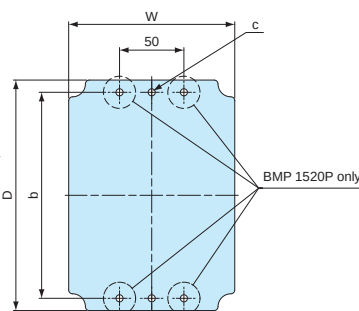
BMP0811P



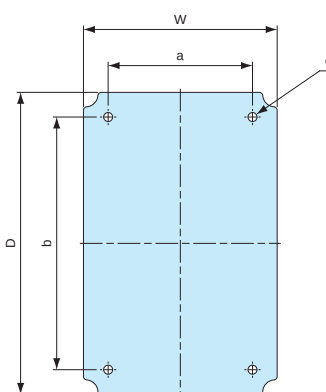
BMP0813P ~ 1515P



BMP1520P, 1525P



BMP1928P ~ 4050P



- DXF/DWG/PDF drawings available on our website.

Components

Part name	Material	Color
Mounting plate	ABS	White gray

Product no. / Details

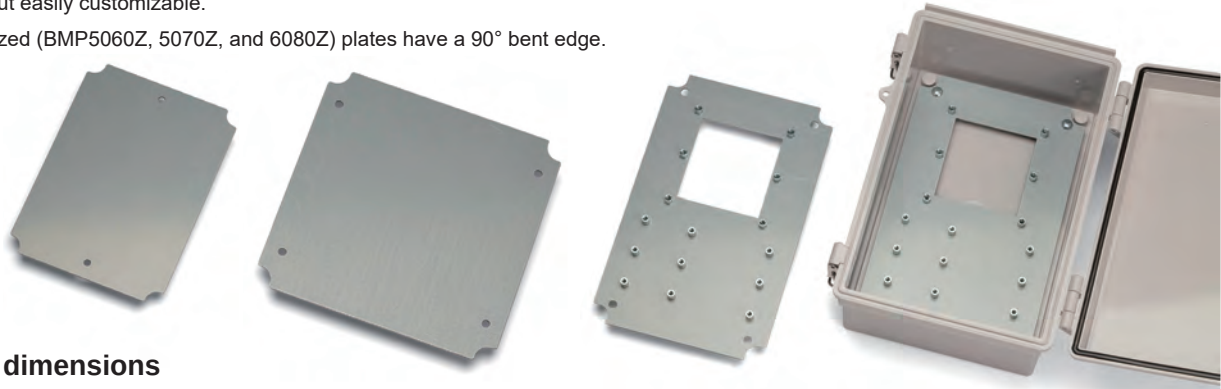
Product no.	W	D	a	b	c (Φ)	Thickness	Suitable models	Weight (g)
BMP0811P	64.5	94.3	—	68.4	—	3.5	BCAP • R, BCPC • K • R 091207, 091208	21
BMP0813P	64.6	114.5	—	88.4	—	3.5	BCAP • R, BCPC • K • R 101507, 101508	24
BMP1121P	76.5	176	—	157.8	6	3	BCAP • R, BCPC • K • R 112107, 112110	40
BMP1126P	76.5	226	—	208	6	3	BCAP • R, BCPC • K • R 112607, 112610	53
BMP1315P	101.5	121.5	—	110	5.5	3.5	BCAP • R, BCPC • K • R 131508	36
BMP1217P	110	160	—	140	6	3.5	BCAP • R, BCPC • K • R 131808, 131810	62
BMP1515P	123	123	110	110	6	3.5	BCAP BCPC • K 151509, 151512	52
BMP1520P	129	179	—	160	5.5	3.5	BCAP • R, BCPC • K • R 162110, 162113, 172210	92
BMP1525P	129	228.5	—	210	6	3.5	BCAP • R, BCPC • K • R 162610, 162613, 172711	112
BMP1928P	158.5	248	120	210	8	3.5	BCAP • R, BCPC • K • R 192810, 192814	162
BMP2020P	178.5	178.5	120	150	5.5	3.5	BCAP • R, BCPC • K • R 212110, 212113	125
BMP2030P	166.5	266	128	225.5	8	4	BCAP • R, BCPC • K • R 203013, 203015, 203018	188
BMP2535P	215.5	315	180	268.5	8	4	BCAP • R, BCPC • K • R 253515, 253518	292
BMP2828P	248.5	248.5	210	210	8	4	BCAP • R, BCPC • K • R 282813	237
BMP2838P	248	347.5	209	309.5	8	4	BCAP • R, BCPC • K • R 283813	368
BMP3030P	262.5	262.5	219	219	7.5	4	BCAP • R, BCPC • K • R 303015, 303018	281
BMP3040P	264	364	228	324	7	3.7	BCAP • R, BCPC • K • R 304012, 304015, 304018	437
BMP3535P	313.5	313.5	269.5	269.5	8	4	BCAP • R, BCPC • K • R 353515, 353518	424.5
BMP3545P	305	405.5	273	364	8	4	BCAP • R, BCPC • K • R 354512, 354516, 354520	539
BMP4050P	357	457	328	428	8.5	4	BCAP BCPC • K 405016, 405020	725.5

- K = BCPK series, R = BCAR • BCPR series.

BMP-Z series

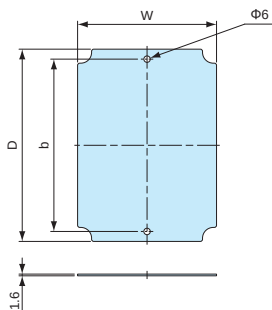
STEEL MOUNTING PLATE

- Customization services (machining, punch press or clinching nut insertion) are available. See website for more details.
- Tough but easily customizable.
- Large sized (BMP5060Z, 5070Z, and 6080Z) plates have a 90° bent edge.

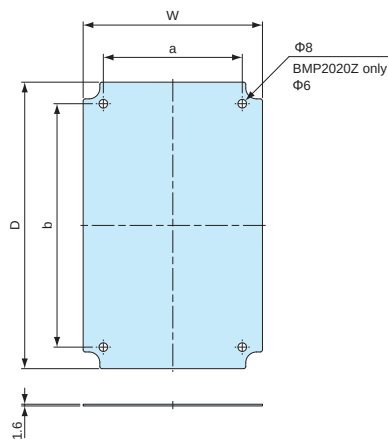


BMP-Z dimensions

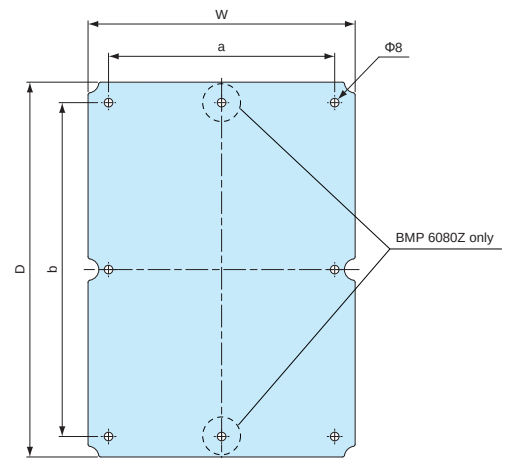
BMP0912Z ~ 1727Z



BMP1928Z ~ 4060Z



BMP5060Z ~ 6080Z



Components

Part name	Material	Finish
Mounting plate	Steel SECC t = 1.6	Zinc coated

Product no. / Details

■ DXF/DWG/PDF drawings available on our website.

Product no.	W	D	a	b	Suitable models	Screw	Weight (g)
BMP0912Z	58	88	—	69	BCAP • R, BCPC • K • R 091207, 091208	—	53
BMP0813Z	68	118	—	100	BCAP • R, BCPC • K • R 101507, 101508	—	87
BMP1121Z	77	177	—	158	BCAP • R, BCPC • K • R 112107, 112110	—	159
BMP1126Z	77	227	—	208	BCAP • R, BCPC • K • R 112607, 112610	—	210
BMP1315Z	102	122	—	110	BCAP • R, BCPC • K • R 131508	—	141
BMP1217Z	102	152	—	140	BCAP • R, BCPC • K • R 131808, 131810	—	180
BMP1515Z	121	121	—	110	BCAP BCPC • K 151509, 151512	—	172
BMP1520Z	126	176	—	160	BCAP • R, BCPC • K • R 162110, 162113	—	262
BMP1525Z	127	227	—	210	BCAP • R, BCPC • K • R 162610, 162613	—	346
BMP1722Z	137	187	—	160	BCAP • R, BCPC • K • R 172210	—	308
BMP1727Z	137	237	—	210	BCAP • R, BCPC • K • R 172711	—	391
BMP1928Z	157	247	120	210	BCAP • R, BCPC • K • R 192810, 192814	M5-8 × 4 pcs	462.5
BMP2020Z	176	176	120	150	BCAP • R, BCPC • K • R 212110, 212113	—	371
BMP2030Z	165	265	129	226	BCAP • R, BCPC • K • R 203013, 203015, 203018	M5-8 × 4 pcs	519
BMP2535Z	215	315	180	270	BCAP • R, BCPC • K • R 253515, 253518	M5-8 × 4 pcs	816
BMP2828Z	246	246	210	210	BCAP • R, BCPC • K • R 282813	M5-8 × 4 pcs	727.5
BMP2838Z	246	346	210	310	BCAP • R, BCPC • K • R 283813	M5-8 × 4 pcs	1,018
BMP3030Z	264	264	219	219	BCAP • R, BCPC • K • R 303015, 303018	M5-8 × 4 pcs	826.5
BMP3040Z	265	365	228	325	BCAP • R, BCPC • K • R 304012, 304015, 304018	M5-8 × 4 pcs	1,154
BMP3535Z	315	315	270	270	BCAP • R, BCPC • K • R 353515, 353518	M5-8 × 4 pcs	1,196.5
BMP3545Z	301	401	274	365	BCAP • R, BCPC • K • R 354512, 354516, 354520	M5-8 × 4 pcs	1,443
BMP4050Z	354	454	328	428	BCAP BCPC • K 405016, 405020	M5-8 × 4 pcs	1,998
BMP4060Z	354	551	328	525	BCAP BCPC • K 406018, 406023	M5-8 × 4 pcs	2,328
BMP5060Z	474	574	426	526	BCAP • R, BCPC • K • R 506018, 506025	M5-8 × 6 pcs	3,286
BMP5070Z	472	672	426	626	BCAP • R, BCPC • K • R 507018, 507025	M5-8 × 6 pcs	3,864
BMP6080Z	565	765	526	726	BCAP • R, BCPC • K • R 608018, 608028	—	5,288.5

■ K = BCPC series, R = BCAR • BCPR series.

BMP-W series

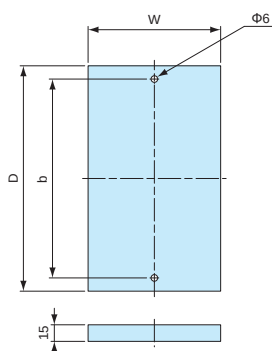
WOODEN MOUNTING PLATE

- Easily customizable hard wooden plate.
- Easy installation with screws provided.
- Plate comes with scales printed on for easy references.

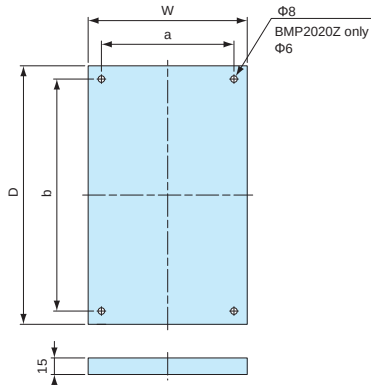


BMP-W dimensions

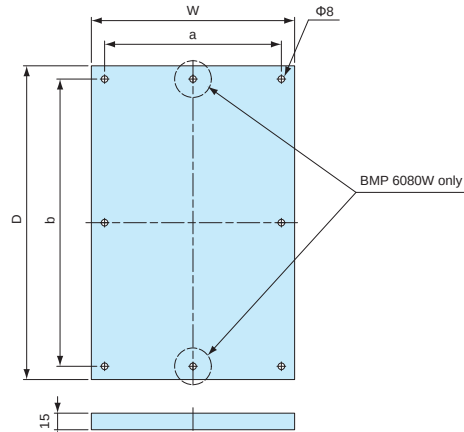
BMP0912W ~ 1727W



BMP1928W ~ 4060W



BMP5060W ~ 6080W



Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material	Finish
Mounting plate	1	Wood board t=15	Scaled sheet
Screw (M5-20 pan washer head)	2 ~ 8	Steel	Trivalent chromate

Product no. / Details

Product no.	W	D	a	b	Suitable models	Screw	Weight (g)
BMP0912W	58	92	-	69	BCAP • R, BCPC • K • R 091207, 091208	M4×20 2 pcs	62
BMP0813W	68	122	-	99	BCAP • R, BCPC • K • R 101507, 101508	M4×20 2 pcs	94
BMP1121W	77	181	-	158	BCAP • R, BCPC • K • R 112107, 112110	M4×20 2 pcs	166
BMP1126W	77	231	-	208	BCAP • R, BCPC • K • R 112607, 112610	M4×20 2 pcs	191
BMP1315W	102	126	-	110	BCAP • R, BCPC • K • R 131508	M4×20 2 pcs	127
BMP1217W	102	156	-	140	BCAP • R, BCPC • K • R 131808, 131810	M4×20 2 pcs	190
BMP1515W	118	125	-	110	BCAP BCPC • K 151509, 151512	M4×20 2 pcs	172
BMP1520W	126	180	-	160	BCAP • R, BCPC • K • R 162110, 162113	M4×20 2 pcs	243
BMP1525W	127	231	-	210	BCAP • R, BCPC • K • R 162610, 162613	M4×20 2 pcs	352
BMP1722W	137	191	-	160	BCAP • R, BCPC • K • R 172210	M4×20 2 pcs	286
BMP1727W	137	241	-	210	BCAP • R, BCPC • K • R 172711	M4×20 2 pcs	212
BMP1928W	150	240	120	210	BCAP • R, BCPC • K • R 192810, 192814	M5×20 4 pcs	350
BMP2020W	170	174	120	150	BCAP • R, BCPC • K • R 212110, 212113	M4×20 4 pcs	336
BMP2030W	159	256	129	226	BCAP • R, BCPC • K • R 203013, 203015, 203018	M5×20 4 pcs	482
BMP2535W	210	300	180	270	BCAP • R, BCPC • K • R 253515, 253518	M5×20 4 pcs	688
BMP2828W	240	240	210	210	BCAP • R, BCPC • K • R 282813	M5×20 4 pcs	565
BMP2838W	240	340	210	310	BCAP • R, BCPC • K • R 283813	M5×20 4 pcs	893
BMP3030W	249	249	219	219	BCAP • R, BCPC • K • R 303015, 303018	M5×20 4 pcs	659
BMP3040W	258	355	228	324	BCAP • R, BCPC • K • R 304012, 304015, 304018	M5×20 4 pcs	965
BMP3535W	300	300	270	270	BCAP • R, BCPC • K • R 353515, 353518	M5×20 4 pcs	964
BMP3545W	301	395	274	365	BCAP • R, BCPC • K • R 354512, 354516, 354520	M5×20 4 pcs	1,314
BMP4050W	355	455	328	428	BCAP BCPC • K 405016, 405020	M5×20 4 pcs	1,754
BMP4060W	355	552	328	525	BCAP BCPC • K 406018, 406023	M5×20 4 pcs	2,015.5
BMP5060W	455	556	426	526	BCAP • R, BCPC • K • R 506018, 506025	M5×20 6 pcs	2,650
BMP5070W	455	656	426	626	BCAP • R, BCPC • K • R 507018, 507025	M5×20 6 pcs	3,152.5
BMP6080W	556	756	526	726	BCAP • R, BCPC • K • R 608018, 608028	M6×20 8 pcs	4,434

■ K = BCPK series, R = BCAR • BCPR series.

BFL series

PLASTIC MOUNTING BRACKET

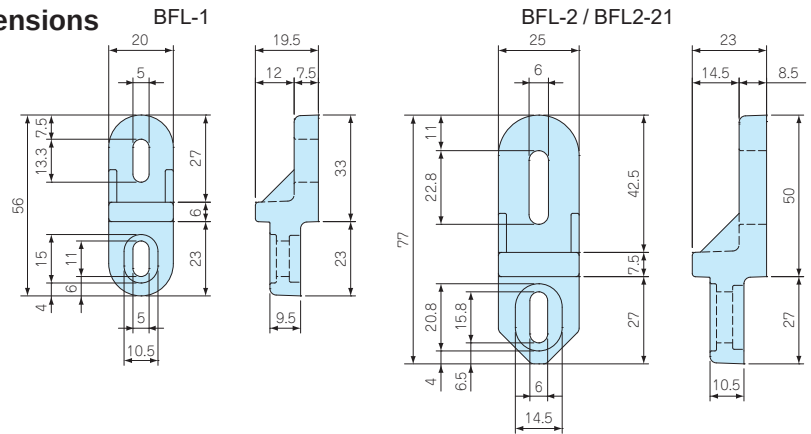


Color G

Color S

- 2 different colored types to match box colors.
- Tough and strong glass fiber filled polycarbonate.

BFL dimensions



Color Type

Code	Color	Suitable models
G	White gray	BCAP • BCAR
S	Light gray	BCPC • BCPK • BCPR

Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material / Finish
Mounting bracket	4	Glass fiber filled polycarbonate • ABS
Screw	4	Stainless steel / Unfinished

Product no. / Details

Product no.	Suitable models	Screw
BFL-1□	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1621, 1626, 1722, 1727, 212113	Self-tapping M4-12 bind head
BFL-2□	BCAP • R, BCPC • K • R 1928, 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060	M5-12 bind head
BFL-2-21□	BCAP • R, BCPC • K • R 212110	Self-tapping M4-12 bind head

■ Please suffix color code at the end of the product number.

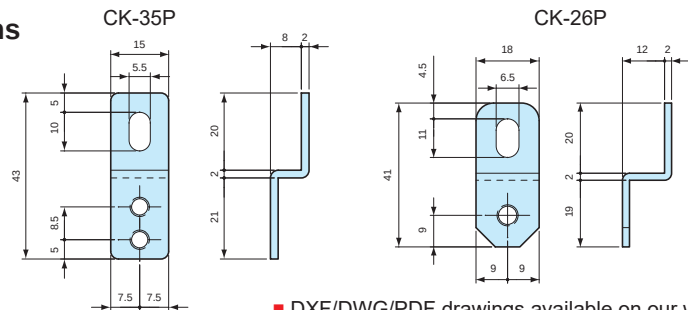
*Not suitable for BCAP1515 models. Use CK-35P (Stainless steel) instead.

CK series

STAINLESS STEEL MOUNTING BRACKET



CK dimensions



Components

■ DXF/DWG/PDF drawings available on our website.

Part name	Pcs	Material	Finish
Mounting bracket	4	Stainless steel SUS304	Barrel finish
Screw	4	Stainless steel	Unfinished

Product no. / Details

Product no.	Suitable models	Screw
CK-35P	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1515, 1621, 1626, 1722, 1727, 2121	Self-tapping M4-10 pan head
CK-26P	BCAP • R, BCPC • K • R 1928, 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060	M5-10 pan head

MT series

PCB MOUNTING SCREW

- PCB mounting screws for inner bosses of BCAP • BCAR • BCPC • BCPK • BCPR series.



Product no. / Details

Product no.	Screw details	Material	Finish	Pack of
MT4-8T	Self-tapping M4-8 bind head	Steel	Trivalent chromate	20
MT5-8T	Self-tapping M5-8 bind head	Steel	Trivalent chromate	20

Product no. / Details

Product no.	Suitable models	Recommended torque
MT4-8T	BCAP • R, BCPC • K • R 0912, 1015, 1121, 1126, 1315, 1318, 1515, 1621, 1626, 1722, 1727, 1928, 2121	0.7N • m
MT5-8T	BCAP • R, BCPC • K • R 2030, 2535, 2828, 2838, 3030, 3040, 3535, 3545, 4050, 4060, 5060, 5070, 6080	1.4N • m

IP68 Waterproof Performance

Heavy Duty Diecast Aluminium Enclosure

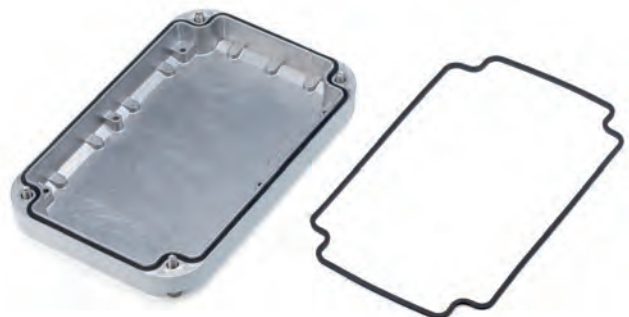
DW•DWH series



IP68 High performance at 24-hours/1m-depth immersion



*Do not use underwater/underground.



With a silicone waterproof gasket, it allows the enclosure to maintain a stable high waterproofing capability.

Selectable from 2 types : general-purpose DW series and the heat-sink DWH series.

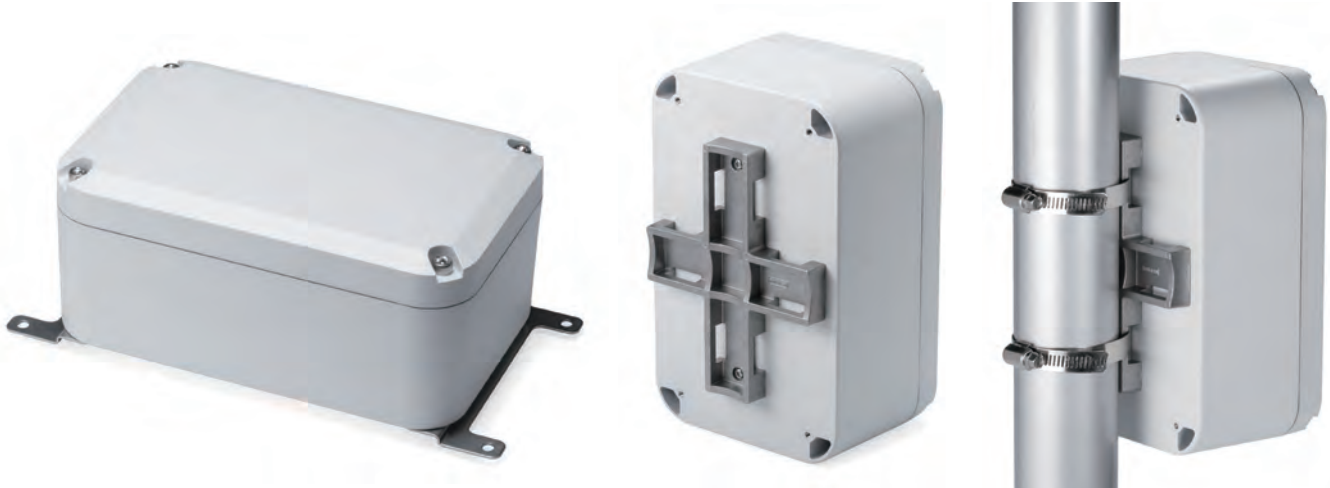


DW series: Easily matches various devices.



DWH series: Heat sink shape for high heat dissipation performance.

Easy installation on walls & poles



Application example - Suitable for a wide range of uses even under severe conditions.

Access Point



Plant Control Equipment



Shockproof Industrial PC



Junction Box

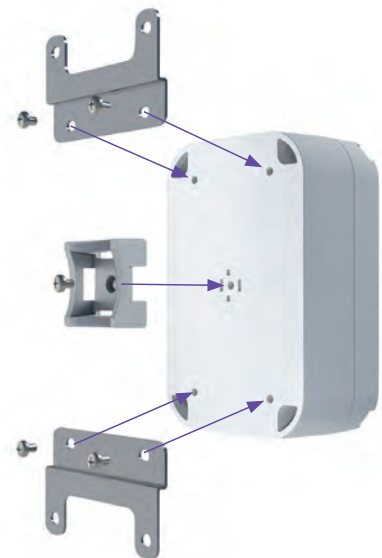
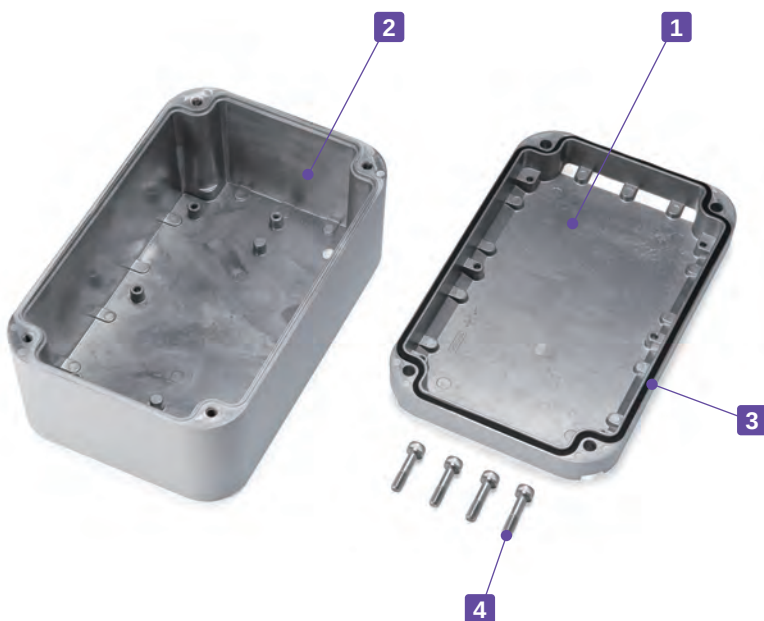




- IP68 high performance aluminium diecast box protected from immersion as long as 24 hours at 1m depth.
- EMC shielding is achieved by having the unfinished inner sides of the Top cover and Base, as well as the conductive silicone gasket.
- Suitable for use in a severe environment such as outdoor network device, plant control equipment, meteorological instruments and more.

Technical Data

Protection class : IP68 (24-hours/1m-depth)
 Operating temperature : -40°C ~ +105°C
 Recommended torque : 4.0 ~ 5.0N • m



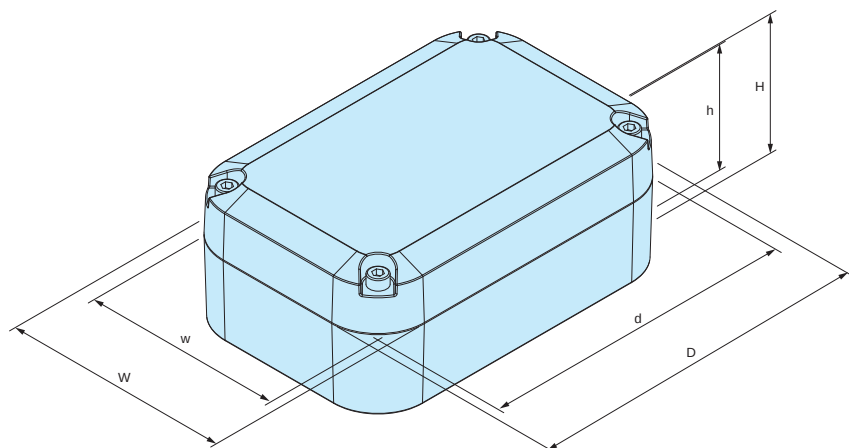
There are M4 threaded holes on the backside of the body for wall / pole mounting bracket.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Diecast aluminium ADC12	White / Powder coated (Unfinished inside)
2	Base	1	Diecast aluminium ADC12	White / Powder coated (Unfinished inside)
3	Gasket	1	Conductive silicone	Black
4	Screw (Hexagon socket head)	4	Stainless steel	Unfinished

DW dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	W	D	H	w	d	h	Weight (g)
DW10-15- 6W	100	150	60	86	136	46	670
DW10-15- 9W	100	150	90	81	131	76	910
DW14-22- 7W	140	220	70	125	205	56	1,245
DW14-22-10W	140	220	100	123	203	86	1,640

Accessories (Optional parts)



Wall mounting bracket
DWF series
See page 153



Aluminium pole mounting bracket
DWMB-1N • WGMB-2N
See page 154



Pole mounting belt • ties
SNB • PKB series
See page 207 ~ 208



Mounting plate for DW • DWH
DWMP series
See page 153



DIN Rail
FDR series
See page 100



Mounting screw
SMS 4-8
See page 153



Cable glands
See page 181 ~ 193

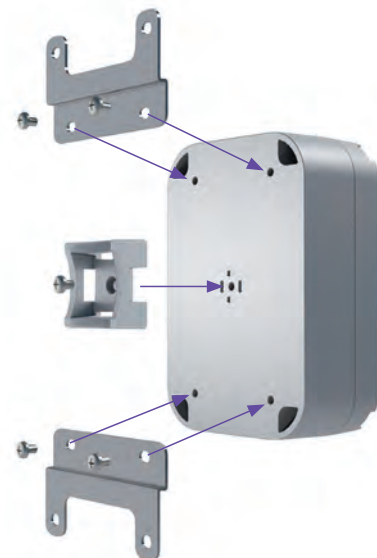
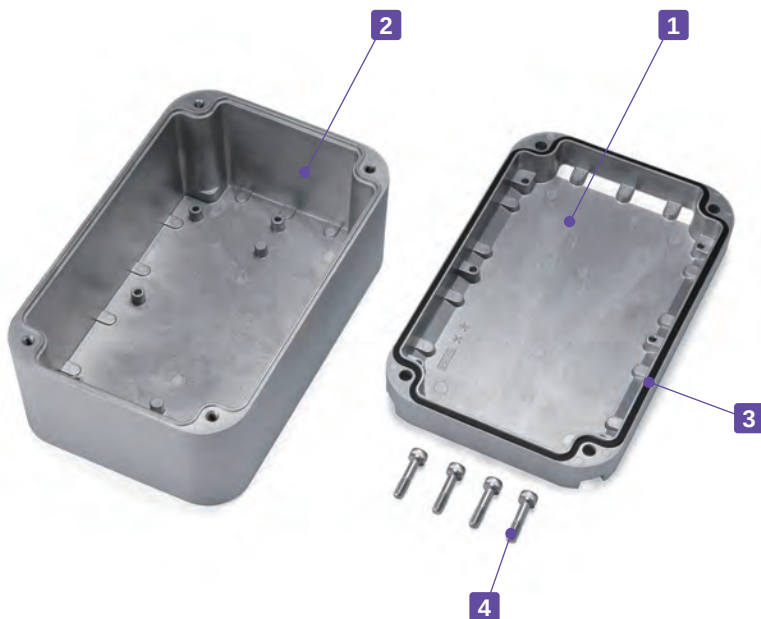


- IP68 high performance aluminium diecast box protected from immersion as long as 24 hours at 1m depth.
- EMC shielding is achieved by having the unfinished inner sides of the Top cover and Base, as well as the conductive silicone gasket.
- Suitable for Access Points, Optical Transmission Equipment, Shockproof Industrial PCs and more.



Technical Data

Protection class : IP68 (24-hours/1m-depth)
Operating temperature : -40°C ~ +105°C
Recommended torque : 4.0 ~ 5.0N • m



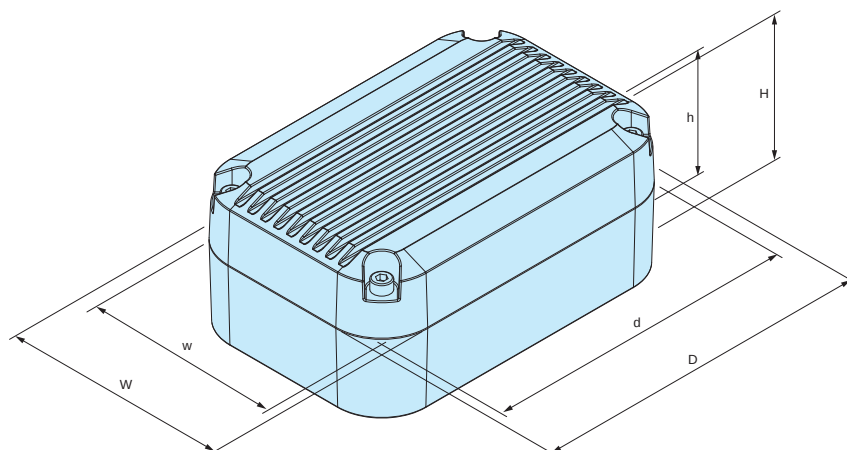
There are M4 threaded holes on the backside of the body for wall / pole mounting bracket.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Heat-sink top cover	1	Diecast aluminium ADC12	Metallic silver / Powder coated (Unfinished inside)
2	Base	1	Diecast aluminium ADC12	Metallic silver / Powder coated (Unfinished inside)
3	Gasket	1	Conductive silicone	Black
4	Screw (Hexagon socket head)	4	Stainless steel	Unfinished

DWH dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	W	D	H	w	d	h	Weight (g)
DWH10-15 -6S	100	150	63.5	86	136	46	875
DWH10-15- 9S	100	150	93.5	81	131	76	1,115
DWH14-22- 7S	140	220	74	125	205	56	1,470
DWH14-22-10S	140	220	104	123	203	86	1,865

Accessories (Optional parts)



Wall mounting bracket
DWF series
See page 153



Aluminium pole mounting bracket
DWMB-1N • WGMB-2N
See page 154



Pole mounting belt • ties
SNB • PKB series
See page 207 ~ 208



Mounting plate for DW • DWH
DWMP series
See page 153



DIN Rail
FDR series
See page 100



Mounting screw
SMS 4-8
See page 153



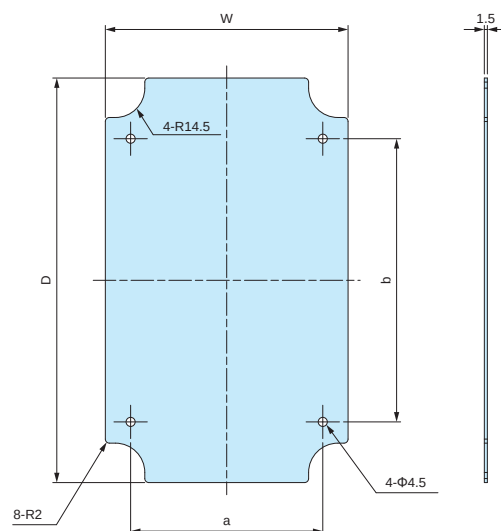
Cable glands
See page 181 ~ 193

DWMP series

MOUNTING PLATE for DW • DWH



■ DXF/DWG/PDF/STP drawings available on our website.



■ Material / Finish : Aluminium A1050P t1.5 / Unfinished

■ Covered with a protective film on one side.

■ Hole milling, clinching spacer customizations are available.
See our website for more details.

Product no. / Details

Including 4x screws (Pan head self tapping M4-8 Steel Trivalent chromate)

Product no.	W	D	a	b	Suitable model	Weight (g)
DWMP10-15	78	128	65	80	DW • DWH10-15-□	39
DWMP14-22	120	200	95	140	DW • DWH14-22-□	96

DWF series

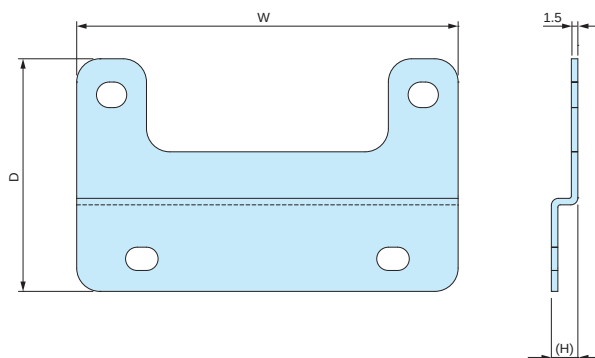
WALL MOUNTING BRACKET for DW • DWH



■ DXF/DWG/PDF/STP drawings available on our website.



■ Material / Finish : Stainless Steel / Barrel finish



Product no. / Details

Including 4x screws (Pan head M4-6 Stainless Steel Unfinished)

Product no.	W	D	(H)	Suitable model	Weight (g)	Pack of
DWF-10	82	50	(5.8)	DW • DWH10-15-□	77 (2pcs)	2
DWF-15	132	50	(5.8)	DW • DWH14-22-□	107 (2pcs)	2

SMS4-8

MOUNTING SCREW

■ Self-tapping screws for mounting PCB and DIN Rail (FDR series - see page 100) on bosses or standoffs.

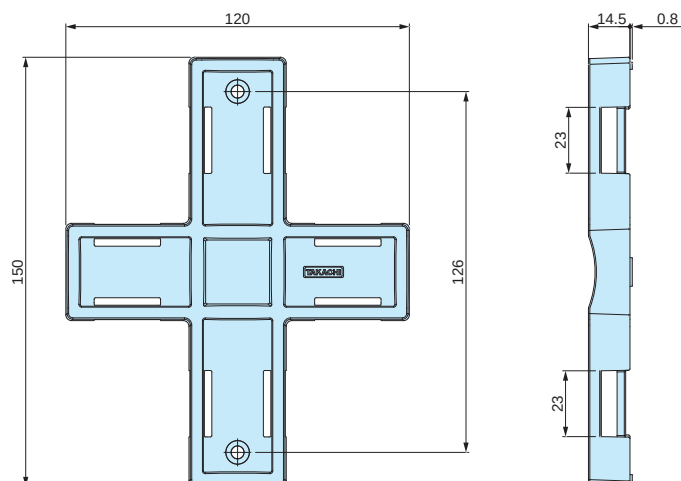


Product no. / Details

Product no.	Details	Material	Finish	Weight(g)	Pack of
SMS4-8	M4-8 Pan head tapping	Steel	Trivalent chromate	1 (1pc)	4

WGMB-2N

DIECAST ALUMINIUM POLE MOUNTING BRACKET for DW • DWH



- Pole mount bracket made from robust diecast aluminium.
- DXF/DWG/PDF/STP drawings available on our website.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its protection class.
- Can be used for DW • DWH14-22-□ models.
- Pole mounting belt can be installed in either W or D direction.
- Pole mount is possible with the use of SNB or PKB series mounting belt. See page 207 ~ 208 for more details.

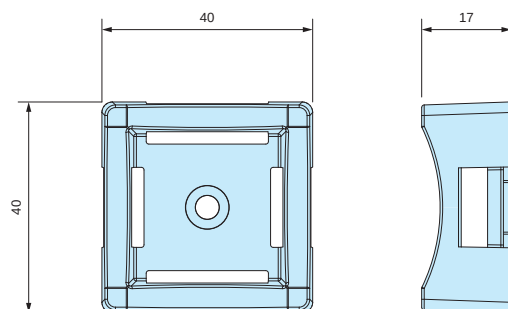
Product no. / Details

■ Stainless steel mounting screws included.

Product no.	Suitable models	Material / Finish	Weight (g)	Pack of
WGMB-2N	DW • DWH14-22-□	Diecast aluminium ADC12 / Shot blast	126	1

DWMB-1N

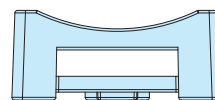
WALL MOUNTING BRACKET for DW • DWH



■ Material / Finish : Diecast aluminium ADC12 / Shot blast

- Pole mount bracket made from robust diecast aluminium.
- Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its protection class.
- Can be used for DW • DWH10-15-□ models.
- Pole mounting belt can be installed in either W or D direction.
- Pole mount is possible with the use of SNB or PKB series mounting belt. See page 207 ~ 208 for more details.

■ DXF/DWG/PDF/STP drawings available on our website.



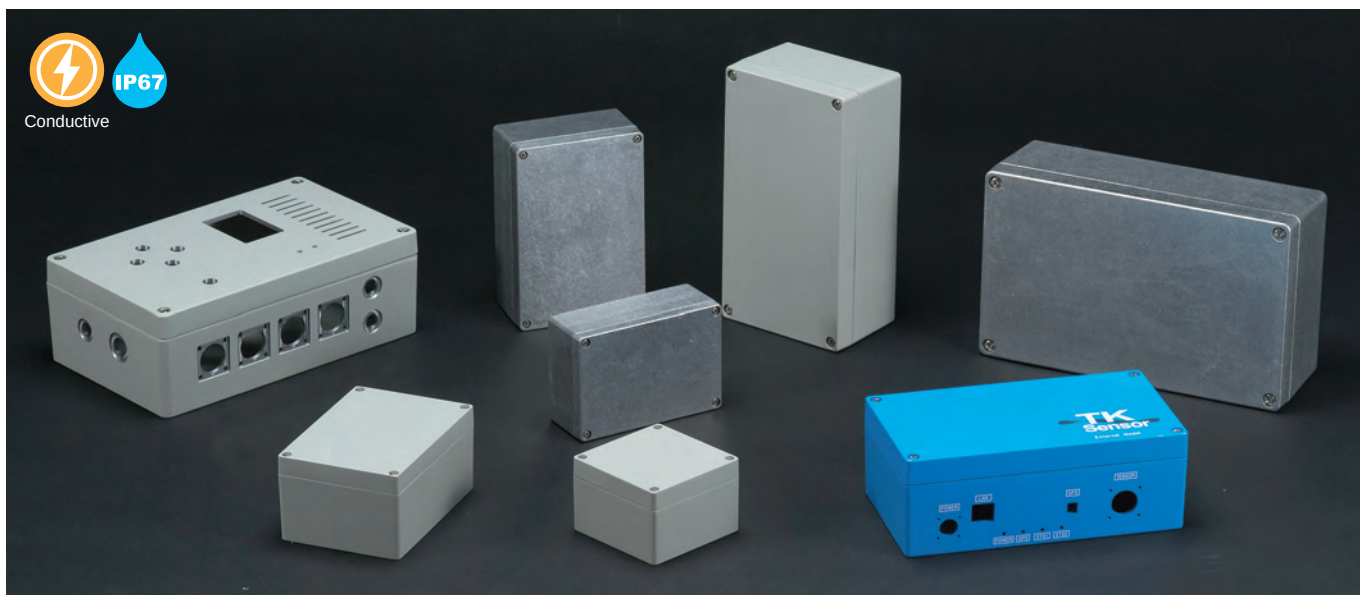
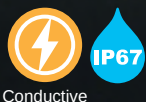
Product no. / Details

Including 1x screw (Pan head M4-6 Stainless Steel Unfinished)

Product no.	Suitable models	Weight (g)	Pack of
DWMB-1N	DW • DWH10-15-□	24	1

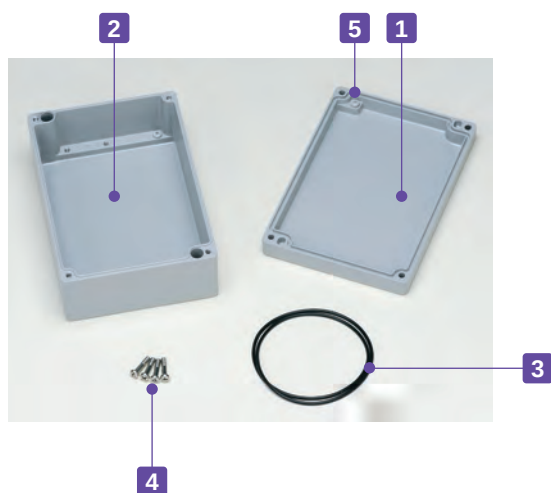
BDN series

IP67 DIECAST ALUMINIUM BOX



Technical Data

Protection class : IP67
 Operating temperature : -40°C ~ +105°C
 Recommended torque : 1.0N • m (10kgf • cm)



- 8 different sizes available for both light gray powder coated and unfinished models.
- O-ring gasket is good for maintaining both waterproof and dustproof functionality.
- Shock resistant diecast aluminium box.
- Conductivity can be achieved by utilization of the contact between the unfinished inner surfaces (only applicable to "N" type).

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Diecast aluminium ADC12	Light gray / Powder coated • Natural / Unfinished
2	Base	1	Diecast aluminium ADC12	Light gray / Powder coated • Natural / Unfinished
3	O-ring gasket	1	Silicone	Black
4	Screw	4	Stainless steel	Unfinished
5	Earthing screw	2	Steel M4-5 pan head	Nickel plated

Accessories (Optional parts)



Wall mounting bracket CK series
See website

Mounting plate FTB series
See website

Pole mounting bracket SSK series
See website

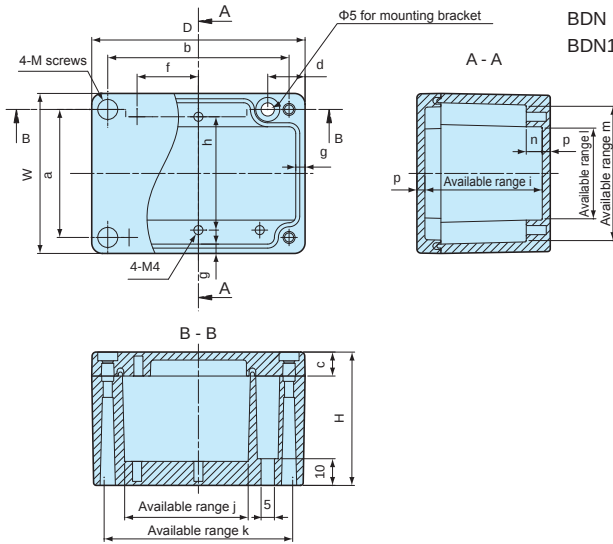
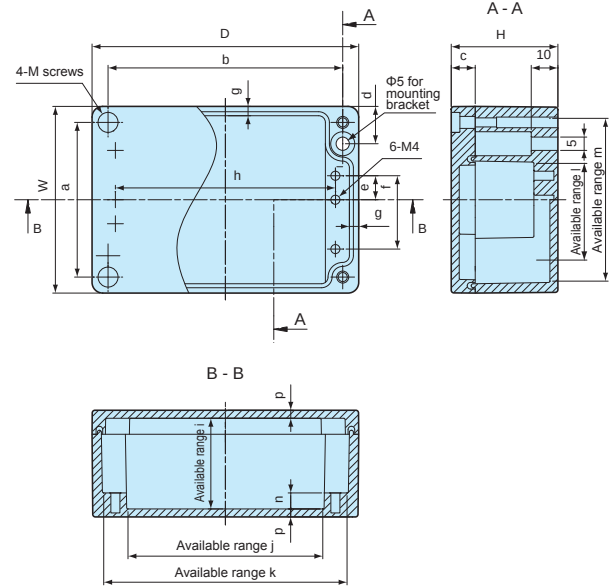
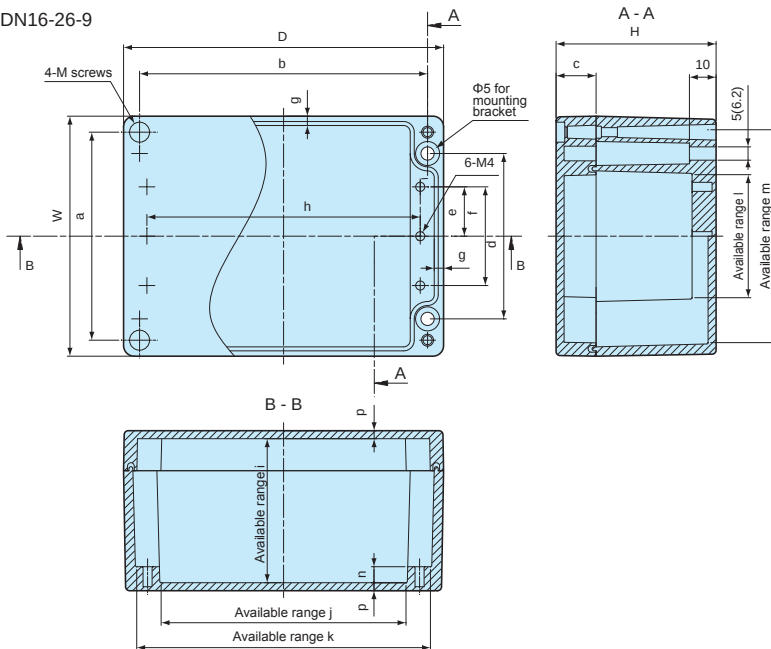
DIN Rail FDR series
See page 100

Cable gland
See page 181 ~ 193

BDN dimensions

■ DXF/DWG/PDF drawings available on our website.

BDN 6-8-5

BDN 7-10-4
BDN 9-13-5
BDN11-16-6BDN 9- 9-6
BDN10-14-7
BDN12-22-8
BDN16-26-9※Dimension in () = BDN12-22-8
BDN16-26-9

Product no. / Details

Product no.		Dimensions						Weight (g)
● Light gray	● Natural Conductive	W	D	H	a	b	c	
BDN 6- 8-5G	BDN 6- 8-5N	60	80	50	48	68	9	240
BDN 7-10-4G	BDN 7-10-4N	70	100	40	58	88	9	250
BDN 9- 9-6G	BDN 9- 9-6N	90	90	60	78	78	15	395
BDN 9-13-5G	BDN 9-13-5N	90	130	50	78	118	9	420
BDN10-14-7G	BDN10-14-7N	100	140	70	88	128	15	635
BDN11-16-6G	BDN11-16-6N	110	160	60	98	148	15	640
BDN12-22-8G	BDN12-22-8N	120	220.5	80	105	205	20	1,155
BDN16-26-9G	BDN16-26-9N	160	260	90	140	240	20	2,145

Product no.		Dimensions												
● Light gray	● Natural Conductive	d	e	f	g	h	i	j	k	ℓ	m	n	p	M
BDN 6- 8-5G	BDN 6- 8-5N	14	—	23	3.5	42.5	44	45	71	33	51	6	3	M4
BDN 7-10-4G	BDN 7-10-4N	14	11	31	3	85	34	75	92.5	38	62.5	6	3	M4
BDN 9- 9-6G	BDN 9- 9-6N	62	18.5	37	3.5	72	54	62.5	80.7	46.7	80.5	6	3	M4
BDN 9-13-5G	BDN 9-13-5N	14	19	47.5	3.5	112.5	44	102.7	120.9	55.9	80.7	6	3	M4
BDN10-14-7G	BDN10-14-7N	72	24	48	3.5	121	64	111	130	56	90	6	3	M4
BDN11-16-6G	BDN11-16-6N	14	29	67.5	3.5	142.5	54	132.5	150.7	75.7	100.5	6	3	M4
BDN12-22-8G	BDN12-22-8N	84.6	28	56	3.9	196	74	183	206	62	105	6	3	M5
BDN16-26-9G	BDN16-26-9N	110	36	72	4.8	230	82	216	247	87	146	9	4	M6

AW • AWN • AWP series

IP68 ALUMINIUM ENCLOSURE

AW • AWN • AWP series are highly functional aluminium enclosures which are IP68 (24 hours / 1m depth immersion) rated with heat dissipating heat-sink fins.

34 sizes available. Standard, Flanged, Shielding, and Silicone protector types are available.

Suitable for LED power supply, industrial camera, controller or measuring instrument where waterproof and cooling performance are crucial.

APPLICATION EXAMPLE

Waterproof Boating Network Modular System



GNSS Receiver



Heavy Duty Portable Hardness Tester



LoRa Wan Gateway



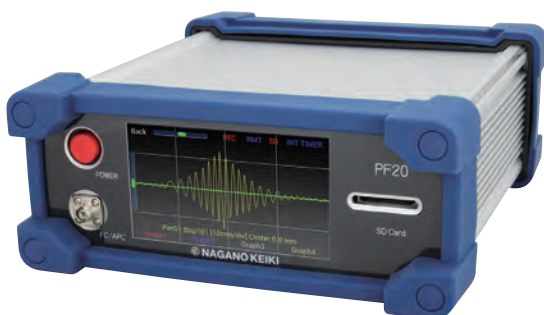
Radio-Control Electronic Exploder



Pin Hole Detector



FBG Data Logger



Data Logger with 3G Modem Report Function



Custom Length Available

Flexible frame length from 50mm to 700mm in 0.1mm intervals.

No minimum order quantity and short lead time for small quantity order.

See our website for further details.





- IP68 and heat dissipation enclosure. Designed with flanged end panels.
- PCB or chassis is mounted by sliding it horizontally into an inner-grooved body frame.
- Designed for a tough environment where waterproof and heat countermeasures are required.
- Suitable for outdoor use such as LED power supplies and junction boxes.

Technical Data

Protection class : IP68 (24 hours/1m depth)
 Operating temperature : -40°C ~ +105°C
 Recommended torque : 1.0N • m

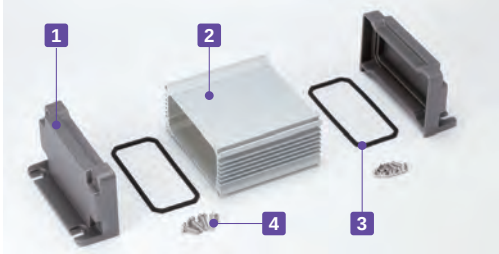
Normal N type Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged end panel	2	Diecast aluminium ADC12	Metallic gray • Black / Powder coated
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Gasket	2	Silicone	Black
4	Screw	8	Stainless steel	Unfinished

EMC Shielded E type Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged end panel	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Gasket	2	Conductive silicone	Black
4	Screw	8	Stainless steel	Unfinished

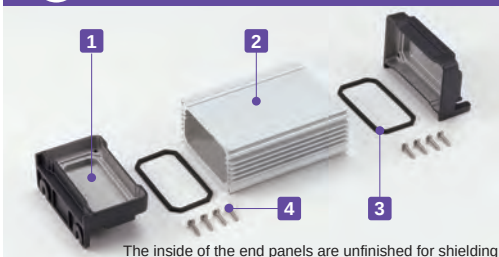
Normal - N type



Color type



EMC Shielded - E type

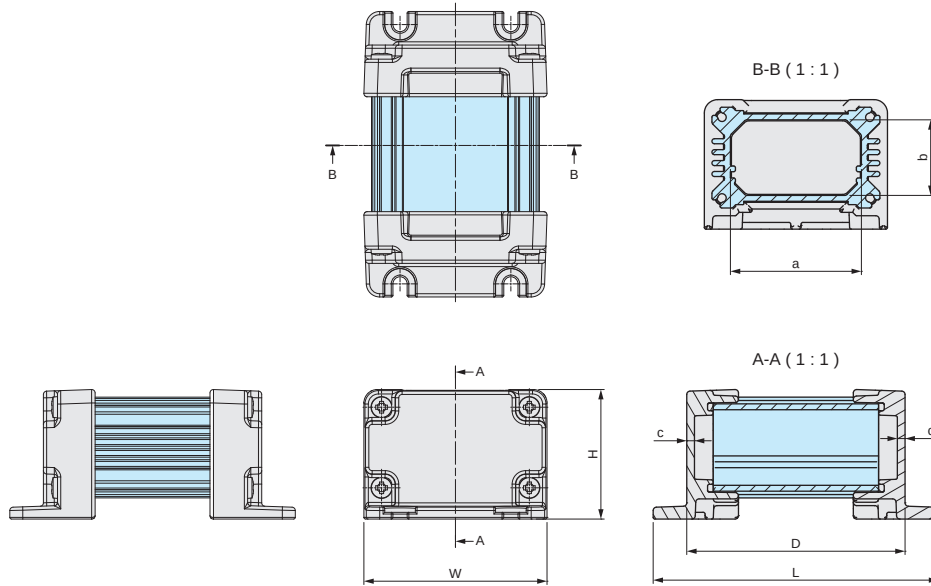


Color type



AW dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	L	a	b	c	Weight (g)
AW 5-4- 7□□□	54.6	38.6	65	85	39	22.5	2.3	128.5
AW 5-4- 9□□□	54.6	38.6	85	105	39	22.5	2.3	149
AW 5-4-11□□□	54.6	38.6	110	130	39	22.5	2.3	175
AW 5-4-14□□□	54.6	38.6	135	155	39	22.5	2.3	201.5
AW 7-7- 8□□□	65.8	70.8	80	106	47	51	2.5	294.5
AW 7-7-11□□□	65.8	70.8	110	136	47	51	2.5	350
AW 7-7-15□□□	65.8	70.8	150	176	47	51	2.5	424.5
AW 7-7-20□□□	65.8	70.8	200	226	47	51	2.5	517
AW 7-7-25□□□	65.8	70.8	250	276	47	51	2.5	610
AW 8-5- 9□□□	80.8	50.8	90	116	62	31	2.5	289.5
AW 8-5-12□□□	80.8	50.8	115	141	62	31	2.5	330.5
AW 8-5-14□□□	80.8	50.8	140	166	62	31	2.5	372
AW 8-5-18□□□	80.8	50.8	175	201	62	31	2.5	429.5
AW 9-9-10□□□	86.3	92	100	129	66.5	66.5	3	560.5
AW 9-9-13□□□	86.3	92	125	154	66.5	66.5	3	633.5
AW 9-9-17□□□	86.3	92	170	199	66.5	66.5	3	764.5
AW 9-9-22□□□	86.3	92	220	249	66.5	66.5	3	910.5
AW 9-9-28□□□	86.3	92	275	304	66.5	66.5	3	1,071
AW11-6-11□□□	106.3	62	110	139	86.5	36.5	3	526.5
AW11-6-15□□□	106.3	62	150	179	86.5	36.5	3	625
AW11-6-19□□□	106.3	62	190	219	86.5	36.5	3	723.5
AW11-6-24□□□	106.3	62	240	269	86.5	36.5	3	847
AW12-8-11□□□	120	77	105	134	100.2	51.5	3	614.5
AW12-8-14□□□	120	77	140	169	100.2	51.5	3	720.5
AW12-8-17□□□	120	77	179.5	208.5	100.2	51.5	3	840
AW12-8-22□□□	120	77	215	244	100.2	51.5	3	947.5
AW16-9-14□□□	156.3	87	135	164	136.5	61.5	3	945.5
AW16-9-18□□□	156.3	87	175	204	136.5	61.5	3	1,092.5
AW16-9-23□□□	156.3	87	225	254	136.5	61.5	3	1,275.5
AW16-9-28□□□	156.3	87	275	304	136.5	61.5	3	1,459
AW21-9-17□□□	206.3	87	170	199	186.5	61.5	3	1,303
AW21-9-21□□□	206.3	87	210	239	186.5	61.5	3	1,473.5
AW21-9-26□□□	206.3	87	260	289	186.5	61.5	3	1,686.5
AW21-9-31□□□	206.3	87	310	339	186.5	61.5	3	1,899.5

■ Custom length is available.

Accessories (Optional parts)



Mounting plate AWC series
See page 166



Hexagon socket head screw HCS series
See page 166



Cable gland
See page 181 ~ 193



Pole mounting bracket SSK series
See website



Protective vent CVP • PMF series
See page 195 ~ 200



- IP68 and heat dissipation enclosure design. Selectable in both Normal and EMC Shielded type.
- The extruded aluminium frame and diecast aluminium panels make it extremely suitable to be used in harsh environments where waterproofing and heat dissipation is essential.
- PCB or chassis can be mounted by sliding it horizontally into inner-grooved body frame.
- Suitable for measuring instruments, industrial control boxes, industrial camera housings, and other applications.

Technical Data

Protection class : IP68 (24 hours/1m depth)
 Operating temperature : -40°C ~ +105°C
 Recommended torque : 1.0N • m

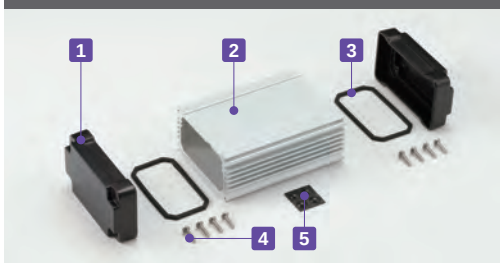
Normal N type Components

No.	Part name	Pcs	Material	Color / Finish
1	End panel	2	Diecast aluminium ADC12	Metallic gray • Black / Powder coated
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Gasket	2	Silicone	Black
4	Screw	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane	Black

EMC Shielded E type Components

No.	Part name	Pcs	Material	Color / Finish
1	End panel	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Gasket	2	Conductive silicone	Black
4	Screw	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane	Black

Normal - N type



Color type



Metallic gray / Silver

N G S



Black / Silver

N B S

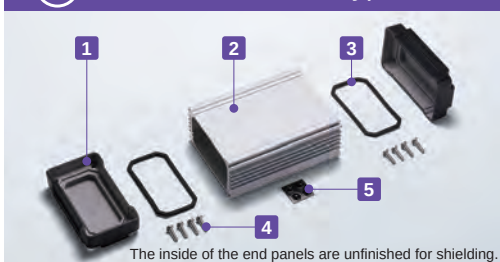


Black / Black

N B B



EMC Shielded - E type



Color type



Silver / Silver

E S S



Black / Silver

E B S

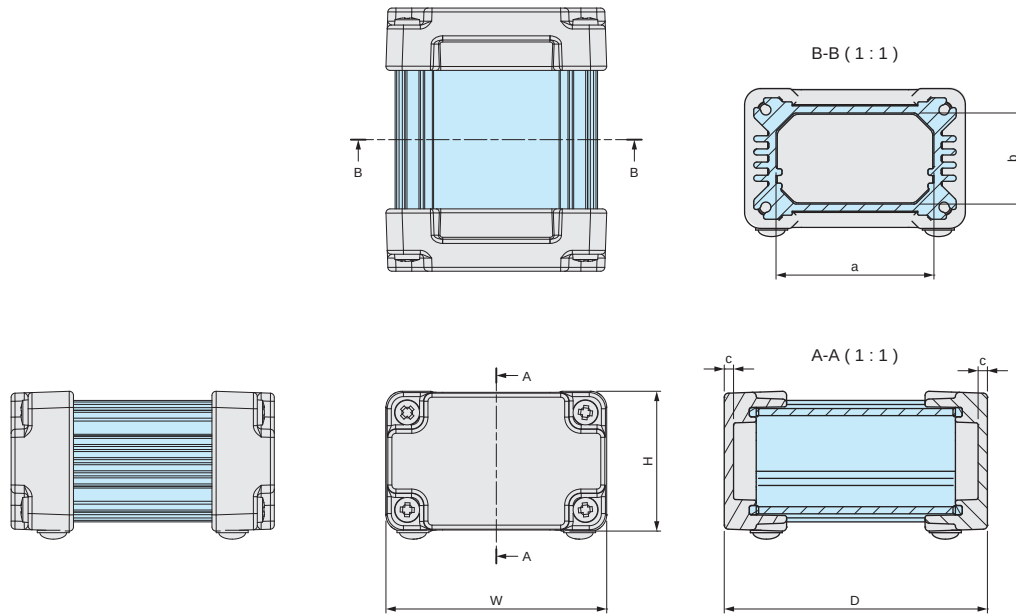


Black / Black

E B B

AWN dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



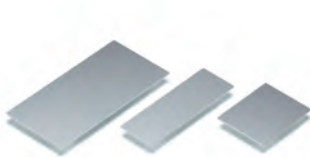
Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	Weight (g)
AWN 5-4- 7□□□	54.6	34.6	65	39	22.5	2.3	118.5
AWN 5-4- 9□□□	54.6	34.6	85	39	22.5	2.3	139
AWN 5-4-11□□□	54.6	34.6	110	39	22.5	2.3	165
AWN 5-4-14□□□	54.6	34.6	135	39	22.5	2.3	191.5
AWN 7-7- 8□□□	65.8	65.8	80	47	51	2.5	272.5
AWN 7-7-11□□□	65.8	65.8	110	47	51	2.5	328
AWN 7-7-15□□□	65.8	65.8	150	47	51	2.5	402.5
AWN 7-7-20□□□	65.8	65.8	200	47	51	2.5	495
AWN 7-7-25□□□	65.8	65.8	250	47	51	2.5	588
AWN 8-5- 9□□□	80.8	45.8	90	62	31	2.5	259.5
AWN 8-5-12□□□	80.8	45.8	115	62	31	2.5	300.5
AWN 8-5-14□□□	80.8	45.8	140	62	31	2.5	342
AWN 8-5-18□□□	80.8	45.8	175	62	31	2.5	399.5
AWN 9-9-10□□□	86.3	86.3	100	66.5	66.5	3	521.5
AWN 9-9-13□□□	86.3	86.3	125	66.5	66.5	3	594.5
AWN 9-9-17□□□	86.3	86.3	170	66.5	66.5	3	725.5
AWN 9-9-22□□□	86.3	86.3	220	66.5	66.5	3	871.5
AWN 9-9-28□□□	86.3	86.3	275	66.5	66.5	3	1,032
AWN11-6-11□□□	106.3	56.3	110	86.5	36.5	3	479.5
AWN11-6-15□□□	106.3	56.3	150	86.5	36.5	3	578
AWN11-6-19□□□	106.3	56.3	190	86.5	36.5	3	676.5
AWN11-6-24□□□	106.3	56.3	240	86.5	36.5	3	800
AWN12-8-11□□□	120	71.3	105	100.2	51.5	3	590.5
AWN12-8-14□□□	120	71.3	140	100.2	51.5	3	696.5
AWN12-8-17□□□	120	71.3	179.5	100.2	51.5	3	816
AWN12-8-22□□□	120	71.3	215	100.2	51.5	3	923.5
AWN16-9-14□□□	156.3	81.3	135	136.5	61.5	3	871.5
AWN16-9-18□□□	156.3	81.3	175	136.5	61.5	3	1,018.5
AWN16-9-23□□□	156.3	81.3	225	136.5	61.5	3	1,201.5
AWN16-9-28□□□	156.3	81.3	275	136.5	61.5	3	1,385
AWN21-9-17□□□	206.3	81.3	170	186.5	61.5	3	1,261
AWN21-9-21□□□	206.3	81.3	210	186.5	61.5	3	1,431.5
AWN21-9-26□□□	206.3	81.3	260	186.5	61.5	3	1,644.5
AWN21-9-31□□□	206.3	81.3	310	186.5	61.5	3	1,857.5

■ Custom length is available.

Accessories (Optional parts)



Mounting plate AWC series
See page 166



Hexagon socket head screw HCS series
See page 166



Cable gland
See page 181 ~ 193

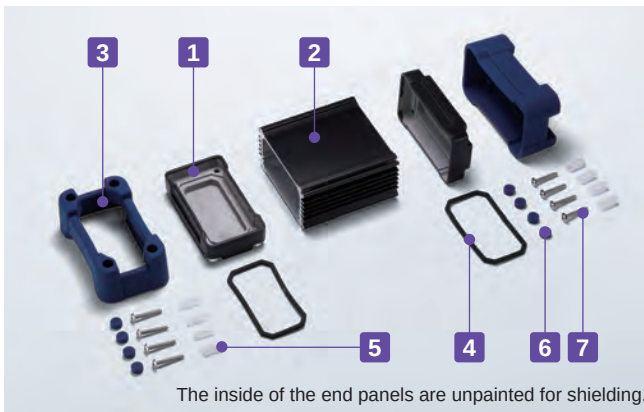


Silicone protector AWSP series
See page 165



Technical Data

Protection class : IP68 (24 hours/1m depth)
Operating temperature : -40°C ~ +105°C
Recommended torque : 1.0N • m



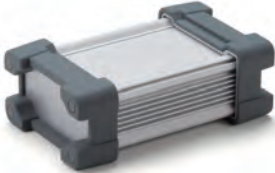
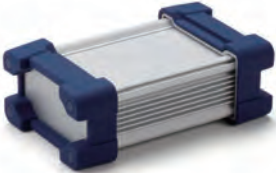
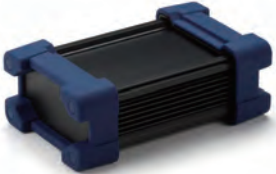
- Strong impact resistant enclosure with tough silicone boot protectors.
- Specifically designed with heat dissipation effect, EMC shielding and IP68 rating.
- PCB or chassis can be horizontally mounted by sliding into an inner-grooved body frame.
- Available in 25 sizes and 6 different color combinations. Selectable from a total of 150 different combinations.
- Suitable for measuring instruments, industrial control boxes, industrial camera housings, and other applications.

Components

No.	Part name	Pcs	Material	Color / Finish
1	End panel	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Body frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Protector	2	Silicone	Black • Gray • Navy
4	Conductive gasket	2	Conductive silicone	Black
5	Spacer	8	Resin	White
6	Blind cap	8	Silicone	Black • Gray • Navy
7	Screw	8	Stainless steel	Unfinished

- AWP series utilizes AWN series E type enclosures.
If N type is required, kindly purchase the enclosure and silicone protector separately.

Color Type

Code	S B Silver / Black	S G Silver / Gray	S N Silver / Navy
Color			
Code	B B Black / Black	B G Black / Gray	B N Black / Navy
Color			

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	※Thermal resistance rate (°C/W)	Weight (g)
AWP 8-5- 9□□	87.4(80.8)	53.6(45.8)	114 (90)	5.97	353.5
AWP 8-5-12□□	87.4(80.8)	53.6(45.8)	139(115)	5.01	394.5
AWP 8-5-14□□	87.4(80.8)	53.6(45.8)	164(140)	4.37	436
AWP 8-5-18□□	87.4(80.8)	53.6(45.8)	199(175)	3.76	493.5
AWP 9-9-10□□	93.9(86.3)	95.1(86.3)	130(100)	3.1	693
AWP 9-9-13□□	93.9(86.3)	95.1(86.3)	155(125)	2.63	766
AWP 9-9-17□□	93.9(86.3)	95.1(86.3)	200(170)	2.12	897
AWP 9-9-22□□	93.9(86.3)	95.1(86.3)	250(220)	1.79	1,043
AWP 9-9-28□□	93.9(86.3)	95.1(86.3)	305(275)	1.54	1,203.5
AWP11-6-11□□	113.9(106.3)	65.1(56.3)	140(110)	4.52	652.5
AWP11-6-15□□	113.9(106.3)	65.1(56.3)	180(150)	3.62	751.5
AWP11-6-19□□	113.9(106.3)	65.1(56.3)	220(190)	3.08	850
AWP11-6-24□□	113.9(106.3)	65.1(56.3)	270(240)	2.64	973
AWP12-8-11□□	127.6(120)	80.1(71.3)	135(105)	3.6	778.5
AWP12-8-14□□	127.6(120)	80.1(71.3)	170(140)	2.93	885
AWP12-8-17□□	127.6(120)	80.1(71.3)	209.5(179.5)	2.47	1,004.5
AWP12-8-22□□	127.6(120)	80.1(71.3)	245(215)	2.18	1,112
AWP16-9-14□□	163.9(156.3)	90.1(81.3)	165(135)	2.64	1,094
AWP16-9-18□□	163.9(156.3)	90.1(81.3)	205(175)	2.2	1,240.5
AWP16-9-23□□	163.9(156.3)	90.1(81.3)	255(225)	1.86	1,424
AWP16-9-28□□	163.9(156.3)	90.1(81.3)	305(275)	1.63	1,607.5
AWP21-9-17□□	213.9(206.3)	90.1(81.3)	202(170)	2.3	1,571.5
AWP21-9-21□□	213.9(206.3)	90.1(81.3)	242(210)	1.99	1,742
AWP21-9-26□□	213.9(206.3)	90.1(81.3)	292(260)	1.72	1,955.5
AWP21-9-31□□	213.9(206.3)	90.1(81.3)	342(310)	1.54	2,168.5

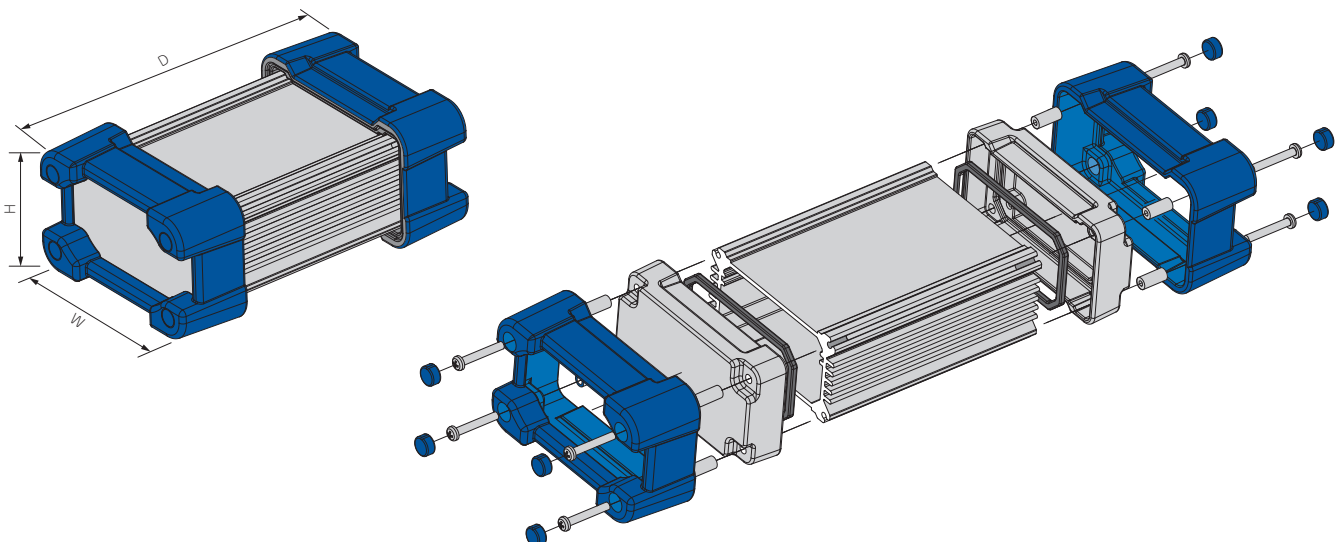
■ () value = enclosure dimension.

※ Thermal resistance test condition

- Ambient air cooling
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Anodized aluminium extrusion
- Heat source is applied on the opposite side (inner side) of the fins.

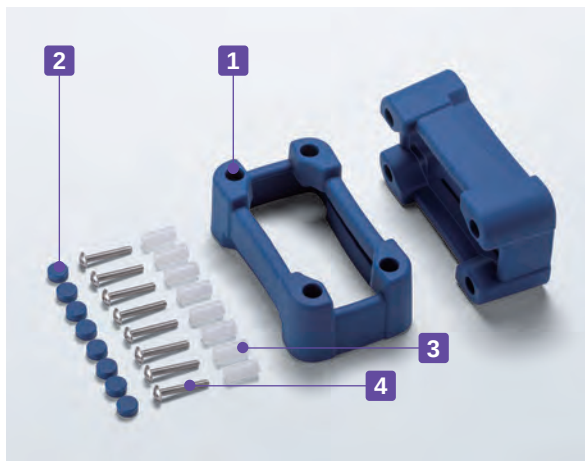
AWP dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



AWSP series

SILICONE PROTECTOR for AWN

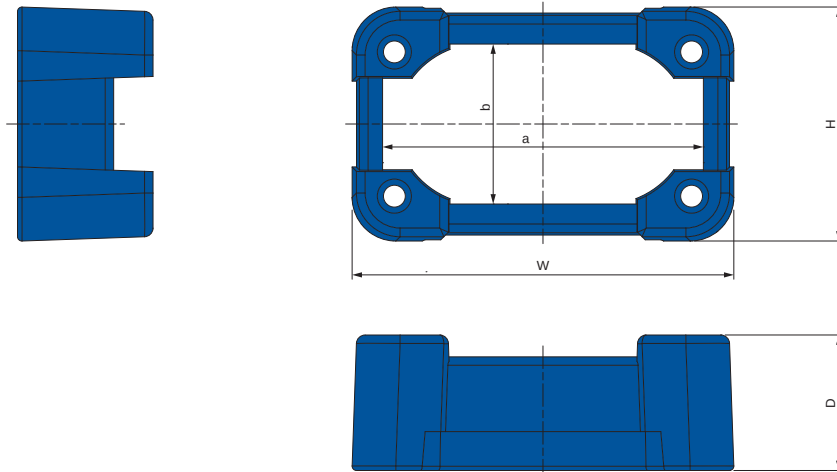


Color Type

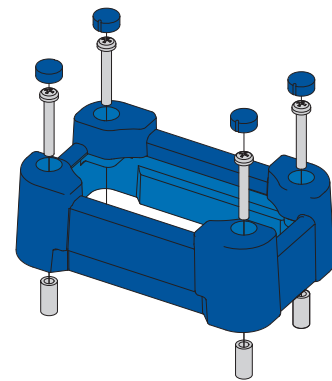
Code	B Black	G Gray	N Navy
Color			

■ Silicone protector for AWN series.

AWSP dimensions



■ DXF/DWG/PDF drawings available on our website.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Protector	2	Silicone	Black • Gray • Navy
2	Blind cap	8	Silicone	Black • Gray • Navy
3	Spacer	8	POM	White
4	Screw	8	Stainless steel	Unfinished

Product no. / Details

■ Please suffix color code at the end of the product number.

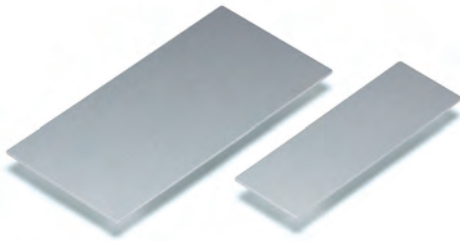
Product no.	W	H	D	a	b	Screw size	Suitable models	Weight (g)
AWSP 8-5□	87.4	53.6	31	73.4	36.6	M3	AWN 8-5-□	100.5
AWSP 9-9□	93.9	95.1	35.5	76.9	75.1	M4	AWN 9-9-□	184.5
AWSP11-6□	113.9	65.1	35.5	96.9	45.1	M4	AWN11-6-□	186
AWSP12-8□	127.6	80.1	35.5	110.6	60.1	M4	AWN12-8-□	201
AWSP16-9□	163.9	90.1	35.5	145.9	69.1	M4	AWN16-9-□	235
AWSP21-9□	213.9	90.1	39.5	192.9	66.1	M5	AWN21-9-□	333

■ Protect switches and/or connectors on end panels from impact when dropped, etc. Custom color is available from just 1 set. For 250 sets or more, manufacturing costs will be similar to a standard color. Please inquire for more details. For custom color order, please specify **PANTONE®** color code.



AWC series

ALUMINIUM MOUNTING PLATE for AW • AWN • AWP • AWA

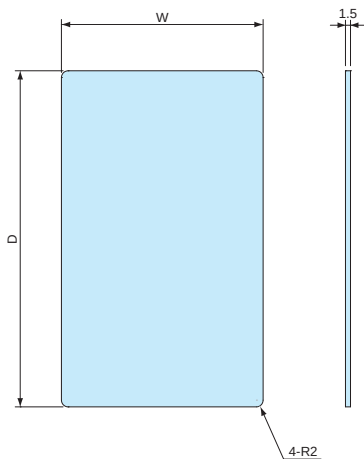


APPLICATION EXAMPLE



- Material: Aluminium A1050P t=1.5 / Silver anodized
- Mounting plate for AW, AWN, AWP, and AWA enclosures.
- Utilize for mounting PCB, power supply, terminal blocks, etc.

AWC dimensions



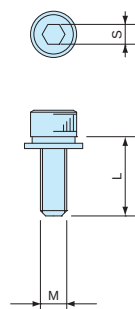
- DXF/DWG/PDF drawings available on our website.

Product no. / Details

Product no.	W	D	Suitable models
AWC 5- 7	38.9	49.2	AW • AWN 5-4- 7
AWC 5- 9	38.9	69.2	AW • AWN 5-4- 9
AWC 5-11	38.9	94.2	AW • AWN 5-4-11
AWC 5-14	38.9	119.2	AW • AWN 5-4-14
AWC 7- 8	47	64	AW • AWN 7-7- 8 • AWA 6-6- 7
AWC 7-11	47	94	AW • AWN 7-7-11 • AWA 6-6-10
AWC 7-15	47	134	AW • AWN 7-7-15 • AWA 6-6-14
AWC 7-20	47	184	AW • AWN 7-7-20 • AWA 6-6-19
AWC 7-25	47	234	AW • AWN 7-7-25 • AWA 6-6-24
AWC 8- 9	61.8	74	AW • AWN • AWP 8-5- 9 • AWA 8-4- 8
AWC 8-12	61.8	99	AW • AWN • AWP 8-5-12 • AWA 8-4-10
AWC 8-14	61.8	124	AW • AWN • AWP 8-5-14 • AWA 8-4-13
AWC 8-18	61.8	159	AW • AWN • AWP 8-5-18 • AWA 8-4-16
AWC 9-10	66.5	81	AW • AWN • AWP 9-9-10 • AWA 8-8- 9
AWC 9-13	66.5	106	AW • AWN • AWP 9-9-13 • AWA 8-8-11
AWC 9-17	66.5	151	AW • AWN • AWP 9-9-17 • AWA 8-8-16
AWC 9-22	66.5	201	AW • AWN • AWP 9-9-22 • AWA 8-8-21
AWC 9-28	66.5	256	AW • AWN • AWP 9-9-28 • AWA 8-8-26
AWC11-11	86.5	90.6	AW • AWN • AWP11-6-11 • AWA10-5-10
AWC11-15	86.5	130.6	AW • AWN • AWP11-6-15 • AWA10-5-14
AWC11-19	86.5	170.6	AW • AWN • AWP11-6-19 • AWA10-5-18
AWC11-24	86.5	220.6	AW • AWN • AWP11-6-24 • AWA10-5-23
AWC12-11	100.2	85.6	AW • AWN • AWP12-8-11 • AWA12-7- 9
AWC12-14	100.2	120.6	AW • AWN • AWP12-8-14 • AWA12-7-12
AWC12-17	100.2	160.1	AW • AWN • AWP12-8-17 • AWA12-7-17
AWC12-22	100.2	195.6	AW • AWN • AWP12-8-22 • AWA12-7-20
AWC16-14	136.3	115.6	AW • AWN • AWP16-9-14 • AWA15-8-12
AWC16-18	136.3	155.6	AW • AWN • AWP16-9-18 • AWA15-8-16
AWC16-23	136.3	205.6	AW • AWN • AWP16-9-23 • AWA15-8-21
AWC16-28	136.3	255.6	AW • AWN • AWP16-9-28 • AWA15-8-26
AWC21-17	186.1	147.8	AW • AWN • AWP21-9-17 • AWA20-8-15
AWC21-21	186.1	187.8	AW • AWN • AWP21-9-21 • AWA20-8-19
AWC21-26	186.1	237.8	AW • AWN • AWP21-9-26 • AWA20-8-24
AWC21-31	186.1	287.8	AW • AWN • AWP21-9-31 • AWA20-8-29

HCS series

HEXAGON SOCKET HEAD SCREW for AW • AWN



- Hexagon socket head screws for fastening the end panels of AW and AWN enclosures.
- Utilize for tamper-resistance functionality or for an elegant sleek look.

Product no. / Details

Product no.	M	L	S	Material	Pack of
HCS3-12S	3	12	2.5	Stainless steel	8
HCS4-12S	4	12	3	Stainless steel	8
HCS5-12S	5	12	4	Stainless steel	8



- Waterproof case available in 73 different sizes and 6 different color combinations.
- Equipped with flanged frame for easy wall mounting. Suitable to be used as wall mounted controller and transmitter.
- Custom length is available.

Technical Data

Protection class : IP65 • IP54
 Protection class varies by size.
 ■ Not suitable for environments with direct rainfall.
 Operating temperature: -10°C ~ +60°C

Included screws

EXWF7-□, 9-□ models : M2.5-8 x 8 pcs
 EXWF11-□, 15-□ models : M3-10 x 8 pcs
 EXWF20-□ models : M4-12 x 8 pcs
 EXWF24-□, 30-□ models : M5-12 x 8 pcs
 ※Hexagonal wrench included.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged end panel	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Navy / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel gasket	2	Silicone • EPDM sponge	Black
5	Cover gasket	2	Silicone sponge	White gray
6	Screw (Hexagonal)	8	Stainless steel	Unfinished
-	O-ring*	8	NBR	Black

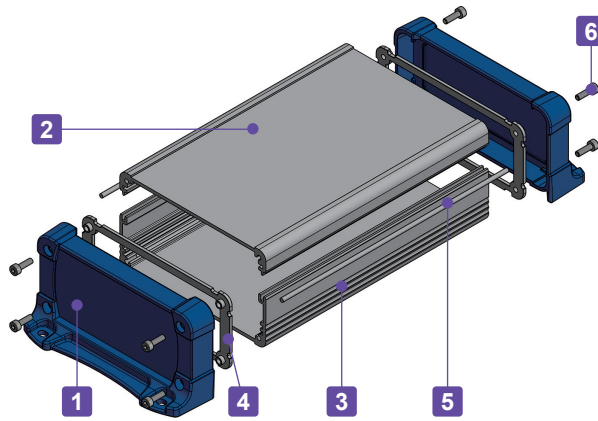
*O-ring is only available for EXWF20-□, 24-□, and 30-□ models.

■ Panel gasket material : Silicone : EXWF7-□ ~ 15-□ models • EPDM sponge : EXWF20-□ ~ 30-□ models.

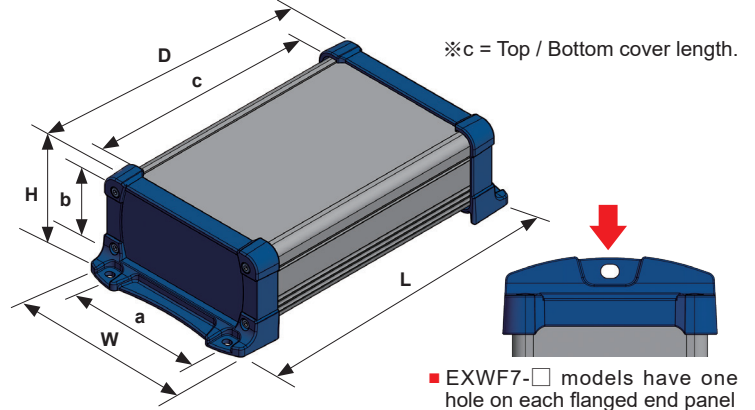
Color Type

Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][N] Silver / Navy
Color			
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][N] Black / Navy
Color			

EXWF dimensions



■ DXF/DWG/PDF/STP drawings available on our website.



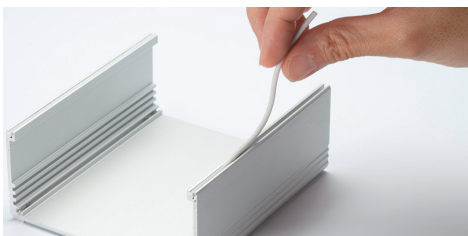
■ Listed D dimension may vary due to expansion and contraction of gasket from screw tightening.

■ Please suffix color code at the end of the product number.

Product no. / Details

Product no.	IP Code	External dimensions				Internal dimensions			
		W	H	D	L	a	b	c	
EXWF 7- 3- 6□□	IP65	66	34	57	82	47	20	46	
EXWF 7- 3- 9□□	IP65	66	34	84	109	47	20	73	
EXWF 7- 3-11□□	IP65	66	34	107	132	47	20	96	
EXWF 7- 4- 6□□	IP65	66	44	57	82	47	30	46	
EXWF 7- 4- 9□□	IP65	66	44	84	109	47	30	73	
EXWF 7- 4-11□□	IP65	66	44	107	132	47	30	96	
EXWF 7- 6- 6□□	IP65	66	59	57	82	47	45	46	
EXWF 7- 6- 9□□	IP65	66	59	84	109	47	45	73	
EXWF 7- 6-11□□	IP65	66	59	107	132	47	45	96	
EXWF 9- 4- 7□□	IP65	86	39	68	94.8	67	25	56	
EXWF 9- 4-10□□	IP65	86	39	98	124.8	67	25	86	
EXWF 9- 4-13□□	IP65	86	39	128	154.8	67	25	116	
EXWF 9- 5- 7□□	IP65	86	49	68	94.8	67	35	56	
EXWF 9- 5-10□□	IP65	86	49	98	124.8	67	35	86	
EXWF 9- 5-13□□	IP65	86	49	128	154.8	67	35	116	
EXWF 9- 6- 7□□	IP65	86	64	68	94.8	67	50	56	
EXWF 9- 6-10□□	IP65	86	64	98	124.8	67	50	86	
EXWF 9- 6-13□□	IP65	86	64	128	154.8	67	50	116	
EXWF11- 4- 9□□	IP65	113	41.5	87	119.8	89	24	74	
EXWF11- 4-13□□	IP65	113	41.5	127	159.8	89	24	114	
EXWF11- 4-17□□	IP65	113	41.5	173	205.8	89	24	160	
EXWF11- 6- 9□□	IP65	113	56.5	87	119.8	89	39	74	
EXWF11- 6-13□□	IP65	113	56.5	127	159.8	89	39	114	
EXWF11- 6-17□□	IP65	113	56.5	173	205.8	89	39	160	
EXWF11- 7- 9□□	IP65	113	71.5	87	119.8	89	54	74	
EXWF11- 7-13□□	IP65	113	71.5	127	159.8	89	54	114	
EXWF11- 7-17□□	IP65	113	71.5	173	205.8	89	54	160	
EXWF15- 5-11□□	IP65	148	47	106	146.2	107	29	93	
EXWF15- 5-15□□	IP65	148	47	146	186.2	107	29	133	
EXWF15- 5-20□□	IP65	148	47	196	236.2	107	29	183	
EXWF15- 6-11□□	IP65	148	62	106	146.2	107	44	93	
EXWF15- 6-15□□	IP65	148	62	146	186.2	107	44	133	
EXWF15- 6-20□□	IP65	148	62	196	236.2	107	44	183	
EXWF15- 8-11□□	IP65	148	82	106	146.2	107	64	93	
EXWF15- 8-15□□	IP65	148	82	146	186.2	107	64	133	
EXWF15- 8-20□□	IP65	148	82	196	236.2	107	64	183	
EXWF15-10-11□□	IP65	148	102	106	146.2	107	84	93	
EXWF15-10-15□□	IP65	148	102	146	186.2	107	84	133	
EXWF15-10-20□□	IP65	148	102	196	236.2	107	84	183	
EXWF20- 6-14□□	IP54	195	57	138	186.6	132	35	120	
EXWF20- 6-19□□	IP54	195	57	190	238.6	132	35	172	
EXWF20- 6-25□□	IP54	195	57	243	291.6	132	35	225	
EXWF20- 6-30□□	IP54	195	57	298	346.6	132	35	280	
EXWF20- 8-14□□	IP54	195	75	138	186.6	132	53	120	
EXWF20- 8-19□□	IP54	195	75	190	238.6	132	53	172	
EXWF20- 8-25□□	IP54	195	75	243	291.6	132	53	225	
EXWF20- 8-30□□	IP54	195	75	298	346.6	132	53	280	
EXWF20-10-14□□	IP54	195	95	138	186.6	132	73	120	
EXWF20-10-19□□	IP54	195	95	190	238.6	132	73	172	
EXWF20-10-25□□	IP54	195	95	243	291.6	132	73	225	
EXWF20-10-30□□	IP54	195	95	298	346.6	132	73	280	
EXWF20-12-14□□	IP54	195	120	138	186.6	132	98	120	
EXWF20-12-19□□	IP54	195	120	190	238.6	132	98	172	
EXWF20-12-25□□	IP54	195	120	243	291.6	132	98	225	
EXWF20-12-30□□	IP54	195	120	298	346.6	132	98	280	
EXWF24- 7-17□□	IP54	240	65	165	213.6	177	43	147	
EXWF24- 7-23□□	IP54	240	65	225	273.6	177	43	207	
EXWF24- 7-29□□	IP54	240	65	285	333.6	177	43	267	
EXWF24- 7-35□□	IP54	240	65	345	393.6	177	43	327	
EXWF24- 9-17□□	IP54	240	90	165	213.6	177	68	147	
EXWF24- 9-23□□	IP54	240	90	225	273.6	177	68	207	
EXWF24- 9-29□□	IP54	240	90	285	333.6	177	68	267	
EXWF24- 9-35□□	IP54	240	90	345	393.6	177	68	327	
EXWF24-12-17□□	IP54	240	115	165	213.6	177	93	147	
EXWF24-12-23□□	IP54	240	115	225	273.6	177	93	207	
EXWF24-12-29□□	IP54	240	115	285	333.6	177	93	267	
EXWF24-12-35□□	IP54	240	115	345	393.6	177	93	327	
EXWF30- 9-25□□	IP54	298	93	247	295.6	231	68	228	
EXWF30- 9-32□□	IP54	298	93	317	365.6	231	68	298	
EXWF30- 9-40□□	IP54	298	93	397	445.6	231	68	378	
EXWF30-14-25□□	IP54	298	143	247	295.6	231	118	228	
EXWF30-14-32□□	IP54	298	143	317	365.6	231	118	298	
EXWF30-14-40□□	IP54	298	143	397	445.6	231	118	378	

How to install cover gaskets



■ Insert cover gasket into the joint-grooves on the bottom cover.



■ Ensure that a small portion of the cover gasket protrudes out in order to maintain a connection with the end panel.



- IP65 is made possible by the sealing of between top & bottom covers and end panels with gaskets.
- Available in 39 different sizes and 6 different color combinations by 2 body frame and 3 end panel colors.
- Custom length is available.

Technical Data

Protection class : IP65

■ Not suitable for environments with direct rainfall.

Operating temperature: -10°C ~ +60°C

Included screws

EXW7-□, 9-□ models : M2.5-8 x 8 pcs

EXW12-□, 15-□ models: M3-10 x 8 pcs

※Hexagonal wrench included.

Components

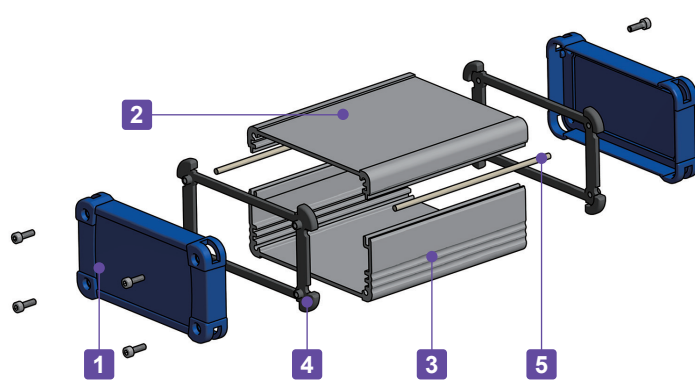
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Navy / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel gasket	2	Silicone	Dark gray • Black • Charcoal gray*
5	Cover gasket	2	Silicone sponge	White gray
6	Screw (Hexagonal)	8	Stainless steel	Unfinished

*Dark gray and black color panel gasket will be changed to charcoal gray upon depletion of inventory.

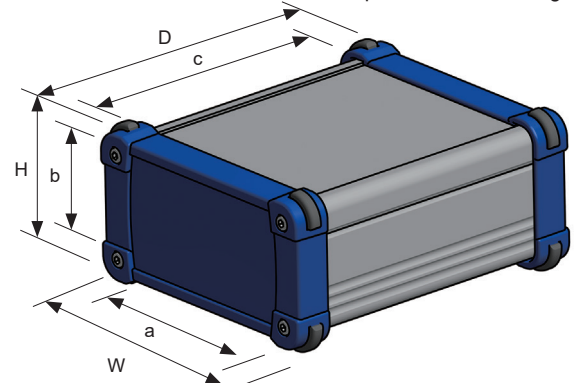
Color Type

Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][N] Silver / Navy
Color			
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][N] Black / Navy
Color			

EXW dimensions



■ DXF/DWG/PDF/STP drawings available on our website.
※c = Top / Bottom cover length.



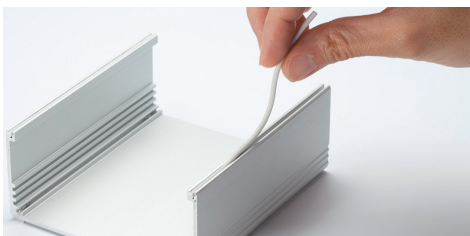
Product no. / Details

■ Listed D dimension may vary due to expansion and contraction of gasket from screw tightening.
■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EXW 7- 3- 6□□	69	34	57	47	20	46
EXW 7- 3- 9□□	69	34	84	47	20	73
EXW 7- 3-11□□	69	34	107	47	20	96
EXW 7- 4- 6□□	69	44	57	47	30	46
EXW 7- 4- 9□□	69	44	84	47	30	73
EXW 7- 4-11□□	69	44	107	47	30	96
EXW 7- 6- 6□□	69	59	57	47	45	46
EXW 7- 6- 9□□	69	59	84	47	45	73
EXW 7- 6-11□□	69	59	107	47	45	96
EXW 9- 4- 7□□	89	39	68	67	25	56
EXW 9- 4-10□□	89	39	98	67	25	86
EXW 9- 4-13□□	89	39	128	67	25	116
EXW 9- 5- 7□□	89	49	68	67	35	56
EXW 9- 5-10□□	89	49	98	67	35	86
EXW 9- 5-13□□	89	49	128	67	35	116
EXW 9- 6- 7□□	89	64	68	67	50	56
EXW 9- 6-10□□	89	64	98	67	50	86
EXW 9- 6-13□□	89	64	128	67	50	116
EXW12- 4- 9□□	116	41	87	89	24	74
EXW12- 4-13□□	116	41	127	89	24	114
EXW12- 4-18□□	116	41	173	89	24	160
EXW12- 6- 9□□	116	56	87	89	39	74
EXW12- 6-13□□	116	56	127	89	39	114
EXW12- 6-18□□	116	56	173	89	39	160
EXW12- 7- 9□□	116	71	87	89	54	74
EXW12- 7-13□□	116	71	127	89	54	114
EXW12- 7-18□□	116	71	173	89	54	160
EXW15- 5-11□□	151	46	106	107	29	93
EXW15- 5-15□□	151	46	146	107	29	133
EXW15- 5-20□□	151	46	196	107	29	183
EXW15- 6-11□□	151	61	106	107	44	93
EXW15- 6-15□□	151	61	146	107	44	133
EXW15- 6-20□□	151	61	196	107	44	183
EXW15- 8-11□□	151	81	106	107	64	93
EXW15- 8-15□□	151	81	146	107	64	133
EXW15- 8-20□□	151	81	196	107	64	183
EXW15-10-11□□	151	101	106	107	84	93
EXW15-10-15□□	151	101	146	107	84	133
EXW15-10-20□□	151	101	196	107	84	183

■ Custom length is available

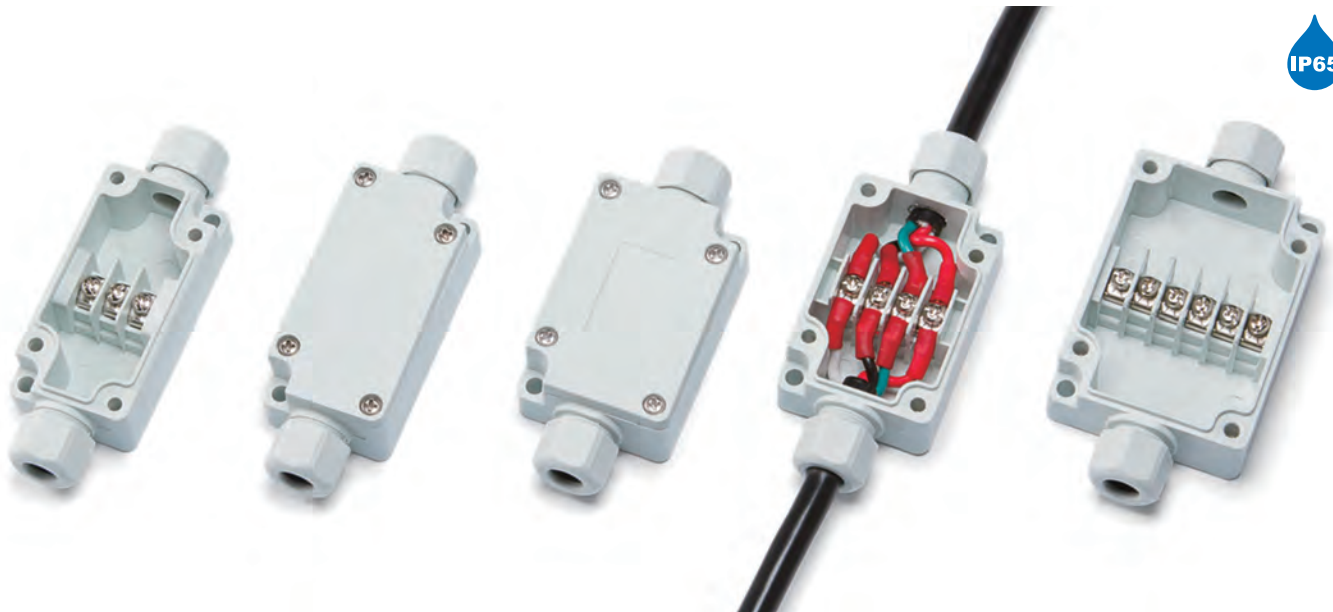
How to install cover gaskets



■ Insert cover gaskets into the joint-grooves on both sides of the bottom cover.



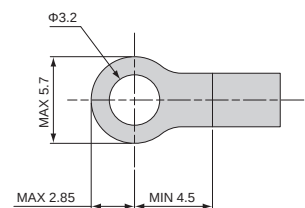
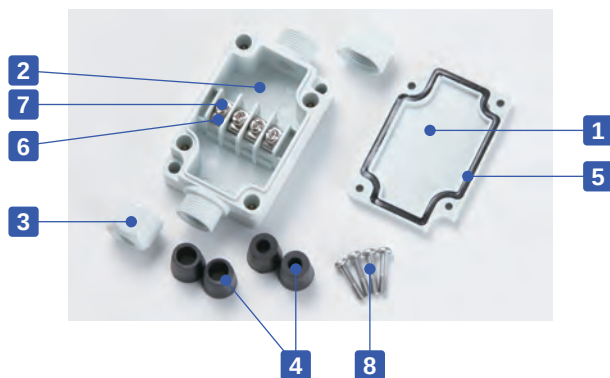
■ Ensure that a small portion of the cover gaskets protrude out in order to maintain connections with the end panels.



- Integrated junction box consisting of cable glands and a terminal block.
- Suitable for industrial facilities, power cable joints, relay between motors and/or sensors.
- IP65 protection class with high oil resistant PBT material.
- 3, 4, and 6 pole types are available.
- $\Phi 5.0$ and $\Phi 7.4$ rubber cable bushes (2 pcs each) are included.

Technical Data

Protection class : IP65
 Operating temperature : $-20^{\circ}\text{C} \sim +75^{\circ}\text{C}$
 Recommended torque : $0.5\text{N} \cdot \text{m}$

Applicable crimp terminal
R1.25-3

Terminal Block Specification

Rated voltage	250V
Rated current	15A
Applicable wire	1.25mm^2
Standard tightening torque	$0.5\text{N} \cdot \text{m}$

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	PBT UL94V-0	Light gray
2	Base	1	PBT UL94V-0	Light gray
3	Cable cap	2	PBT UL94V-0	Light gray
4	Rubber bush	2 pairs	EPDM	Black
5	Gasket	1	Polyurethane	Black
6	Conductive plate	3~6	Brass	Nickel plated
7	Terminal screw	3~6	Steel M3	Nickel plated
8	Cover screw	4	Stainless steel M3	Unfinished

Accessories (Optional parts)



Shorting Bar SBR series
 See website

Rubber Bush RB-9
 See page 176

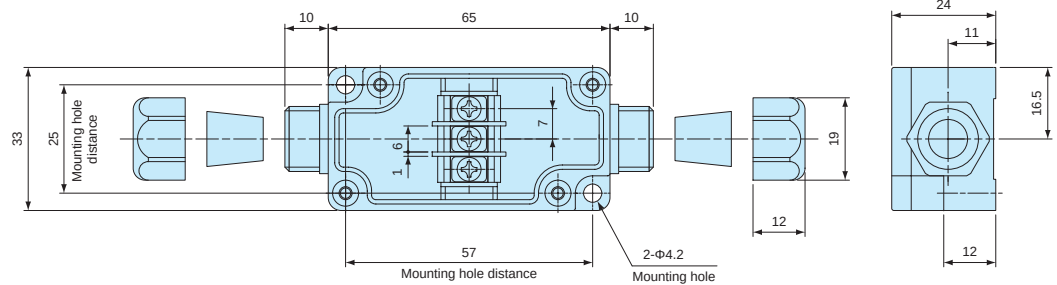
Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
● Light gray					
TMC-3PG	65	33	24	3P	52
TMC-4PG	60	40	24	4P	58
TMC-6PG	70	50	24	6P	73

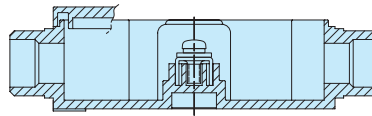
TMC dimensions

■ DXF/DWG/PDF drawings available on our website.

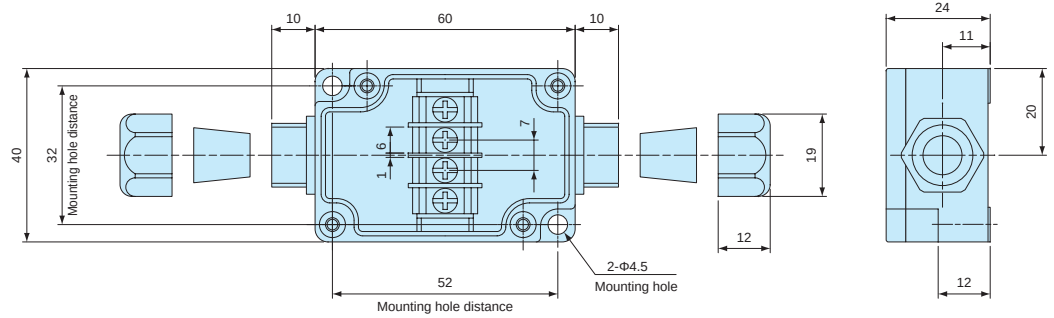
TMC-3PG



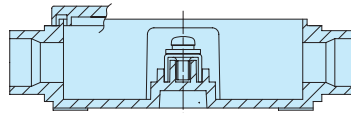
Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7



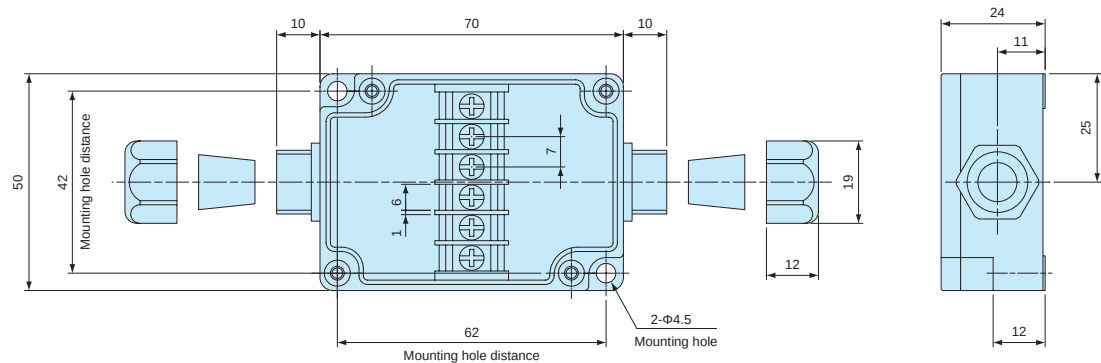
TMC-4PG



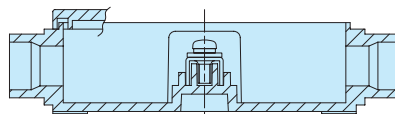
Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7

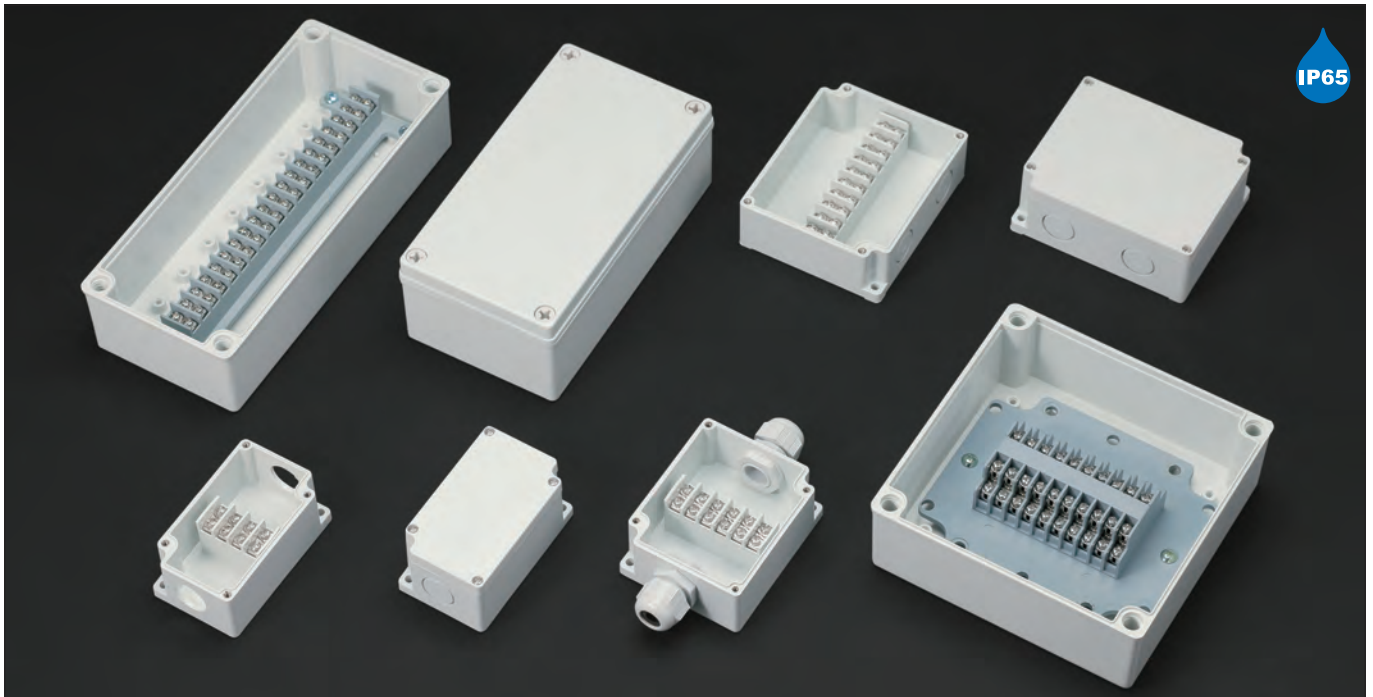


TMC-6PG



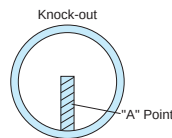
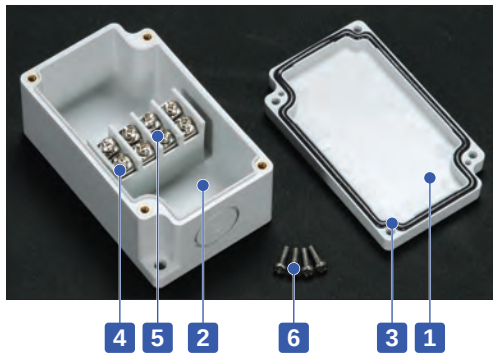
Inner diameter of rubber bush	Cable range
Φ5.0	Φ4 ~ Φ5
Φ7.4	Φ6 ~ Φ7





- Terminal junction box with built-in terminal block.
- IP65 protection class.
- ABS and Glass fiber filled polycarbonate types are available.
- TMB-4P • 6P • 10P is molded with $\Phi 21.0\text{mm}$ metric knock-outs for M20 cable glands.
- To knock out the hole covers, rest a flathead screwdriver at the "A" points, and punch out the knock-outs by hammering on the rear end of the screwdriver handle with a hammer.

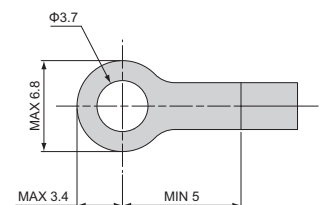
Technical Data	
Protection class :	IP65
Operating temperature :	$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Recommended torque :	
TMB-4P • 6P • 10P :	$0.6\text{N} \cdot \text{m}$
TMB-15PCS • 20PC • 20PCL :	$1\text{N} \cdot \text{m}$



Terminal Block Specification

Rated voltage	400V
Rated current	17.5A
Applicable wire	1.5mm^2
Standard tightening torque	$0.8\text{N} \cdot \text{m}$

Applicable crimp terminal R1.25-3.5



Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	TMB-4P • 6P • 10P : ABS UL94V-0 TMB-15PCS • 20PC • 20PCL : Polycarbonate UL94V-0	White gray Light gray
2	Body	1	TMB-4P • 6P • 10P : ABS UL94V-0 TMB-15PCS • 20PC • 20PCL : Glass fiber filled polycarbonate UL94V-0	White gray Light gray
3	Gasket	1	Polyurethane	Black
4	Conductive plate	4 ~ 20	Brass	Nickel plated
5	Terminal screw	8 ~ 40	Steel (M3.5)	Nickel plated
—	Terminal mount screw (15PCS, 20PC, 20PCL models only)	2 ~ 4	Steel	Trivalent chromate
6	Cover screw	4	Stainless steel • Nylon	Unfinished

※ Cover screw material : Stainless steel - 4P, 6P, and 10P models • Nylon - 15PCS, 20PC, and 20PCL models.

Accessories (Optional parts)



Shorting bar SBR series
See website



Cable gland
See page 181 ~ 193



Mounting bracket CK-34Z
See website

ABS UL94V-0 Models

Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
TMB- 4P	91	55	43	4P	102
TMB- 6P	91	75	43	6P	134
TMB-10P	91	110	43	10P	190

Polycarbonate UL94V-0 Models

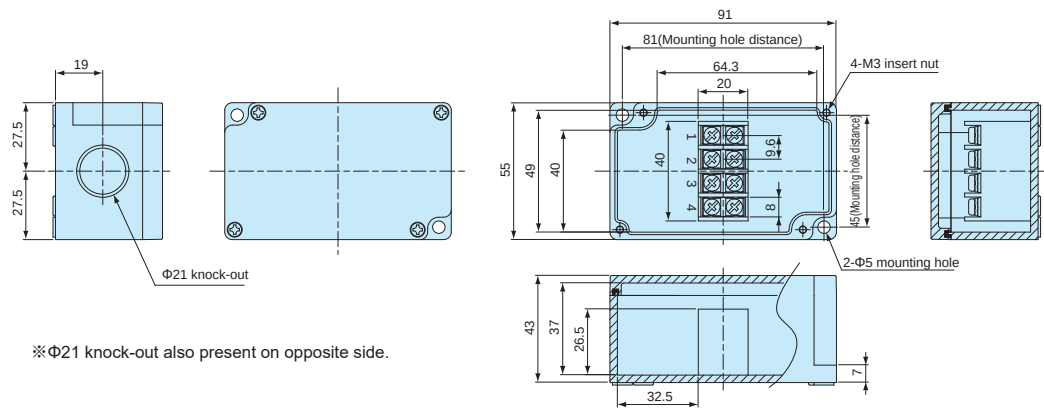
Product no. / Details

Product no.	L	W	H	Number of poles	Weight (g)
TMB-15PCS	185	100	70	15P	412
TMB-20PC	160	160	70	10P×2	560
TMB-20PCL	230	100	70	20P	484

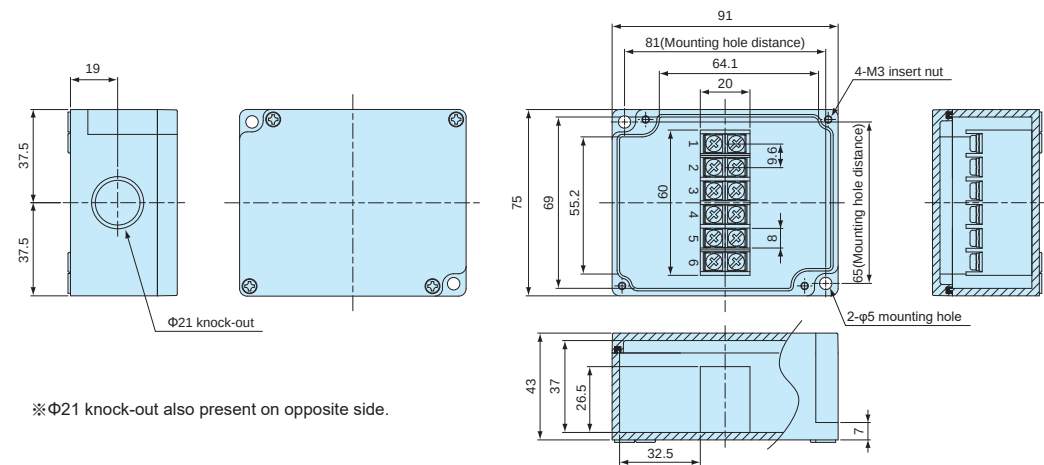
TMB dimensions

■ Drawings below are reference examples only. DXF/DWG/PDF drawings available on our website.

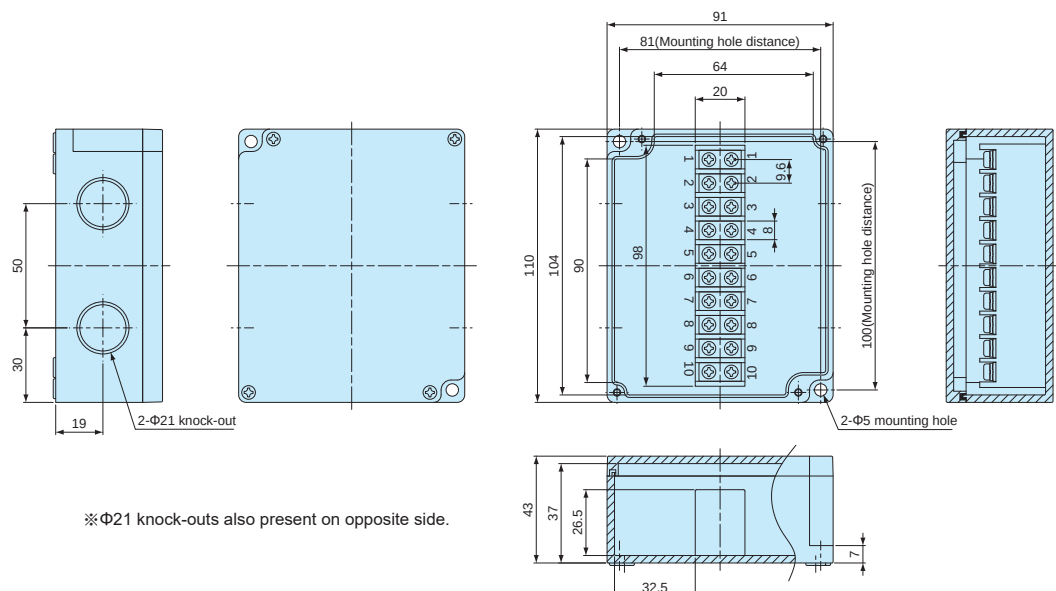
TMB-4P



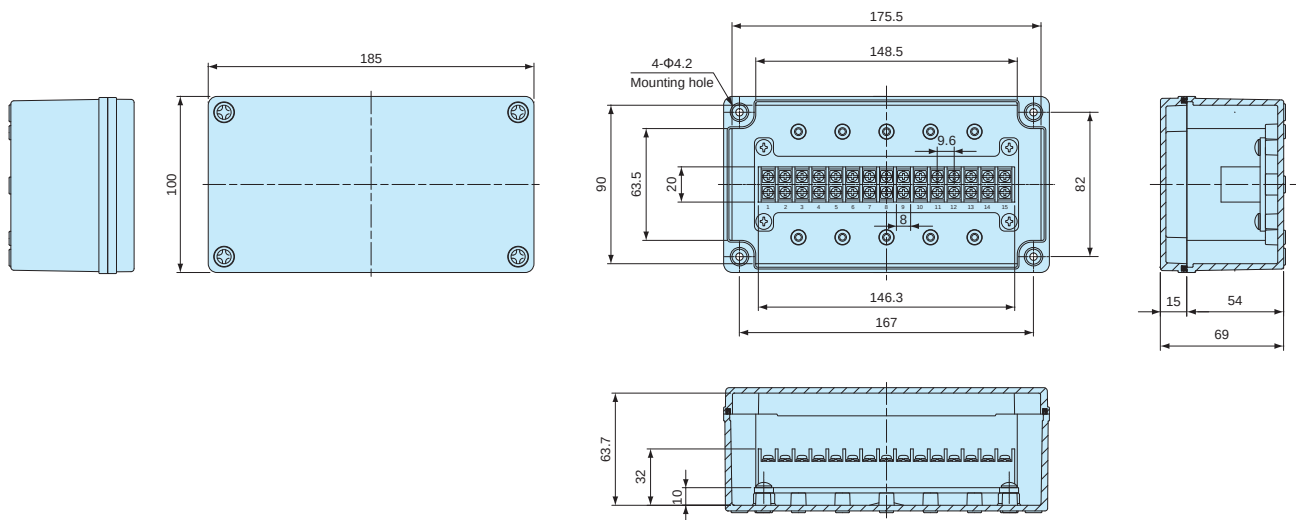
TMB-6P



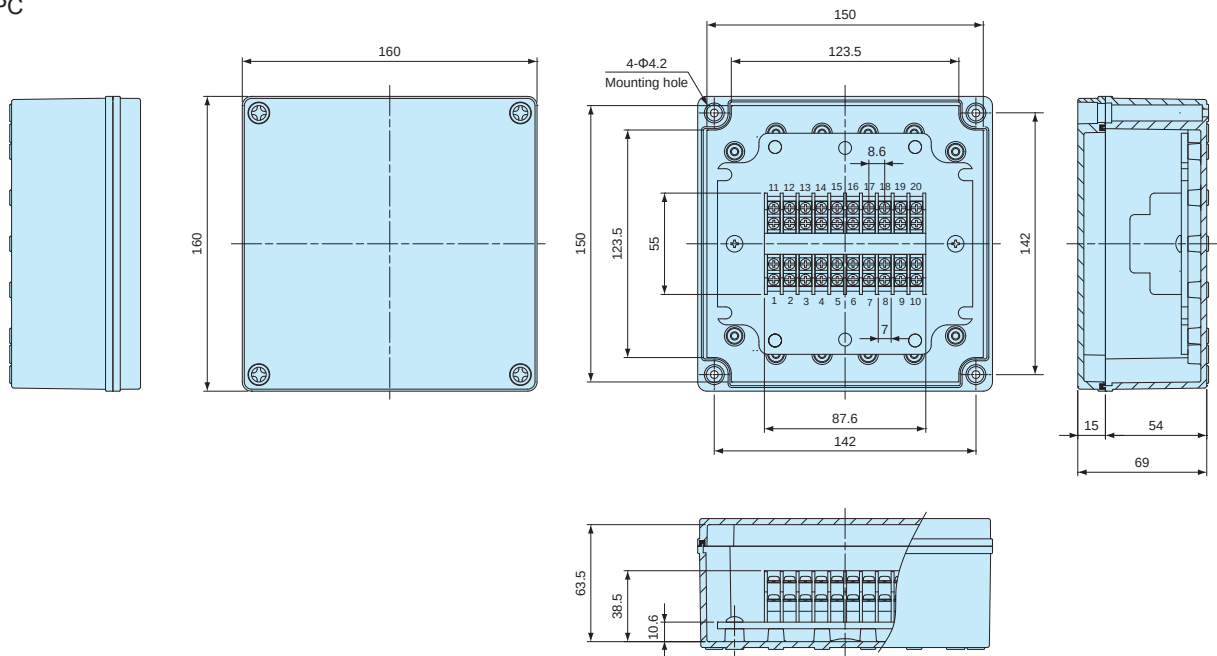
TMB-10P



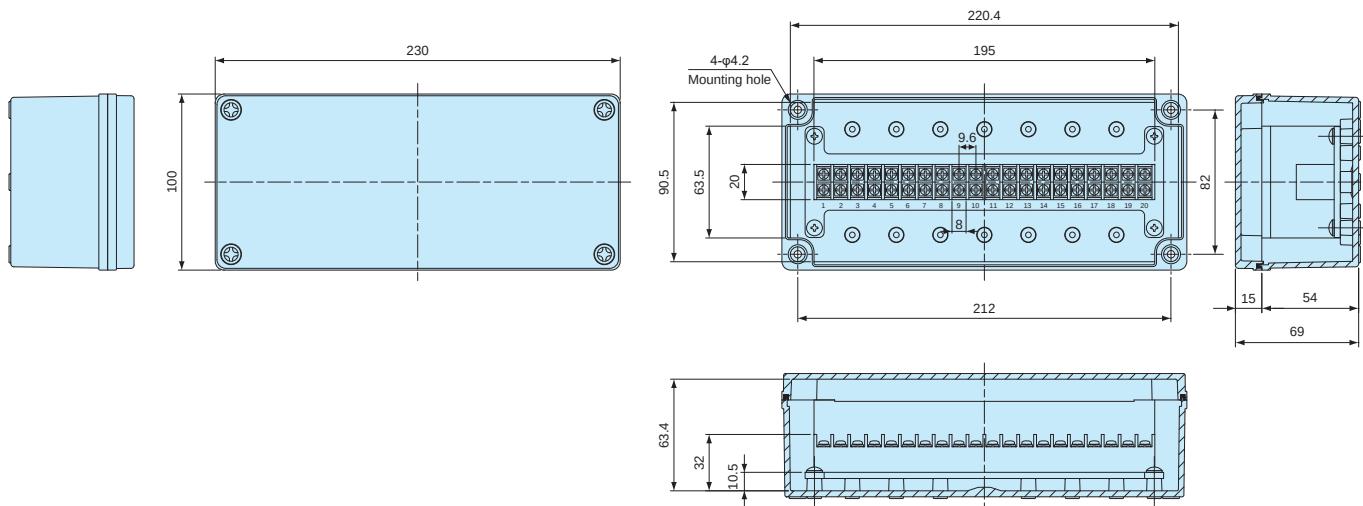
TMB-15PCS



TMB-20PC

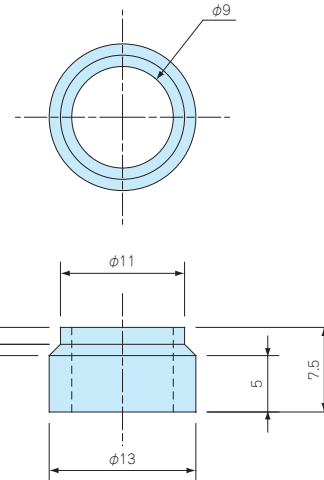


TMB-20PCL



RB-9

RUBBER BUSH



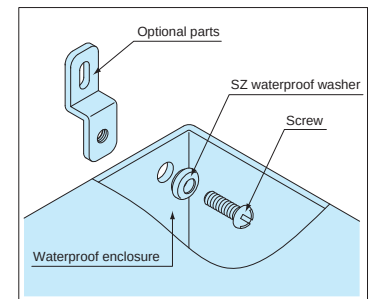
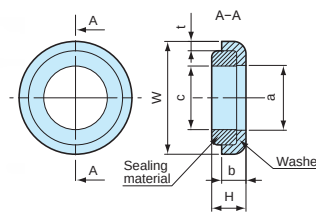
- Rubber bush for TMC series terminal junction box.
- Applicable for $\phi 8 \sim \phi 9$ mm diameter cable.

Product no. / Details

Product no.	Material	Color	Cable range	Pack of
RB-9	NBR	Black	$\phi 8 \sim \phi 9$ mm	2

SZ series

WATERPROOF WASHER



- Waterproof washer for screwing onto waterproof boxes.
- NBR sealing material has superior oil resistance (N models only).
- Silicone sealing material has wider operating temperature with superior temperature and water resistance (S models only).

Technical Data

Water pressure resistance :
M3 ~ M16
0.98MPa (10kgf/cm²) / 1 hour

- Shape of the sealing material vary by product.

Product no. / Details

Product no.	W	H	a	b	c	t	Washer material	Sealing material	Color	Screw size	Pack of
SZ- 3N	7	2.7	3.2	2.2	3.1	0.5	SUS304	NBR	Black	M 3	1
SZ- 3S	7	2.7	3.2	2.2	3.1	0.5	SUS304	Silicone	Brown	M 3	1
SZ- 4N	8	2.8	4.2	2.1	4.1	0.5	SUS304	NBR	Black	M 4	1
SZ- 4S	8	2.8	4.2	2.1	4.1	0.5	SUS304	Silicone	Brown	M 4	1
SZ- 5N	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	NBR	Black	M 5	1
SZ- 5S	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	Silicone	Brown	M 5	1
SZ- 6N	11.5	4	6.2	3	6.2	1	SUS304	NBR	Black	M 6	1
SZ- 6S	11.5	4	6.2	3	6.2	1	SUS304	Silicone	Brown	M 6	1
SZ- 8N	15.2	3.8	8.2	3.2	8.2	1	SUS304	NBR	Black	M 8	1
SZ- 8S	15.2	3.8	8.2	3.2	8.2	1	SUS304	Silicone	Brown	M 8	1
SZ-10N	18	5.3	10.2	4	10.2	1.5	SUS304	NBR	Black	M10	1
SZ-10S	18	5.3	10.2	4	10.2	1.5	SUS304	Silicone	Brown	M10	1
SZ-12N	24	6.1	14.2	4.8	12.2	1.5	SUS304	NBR	Black	M12	1
SZ-12S	24	6.1	14.2	4.8	12.2	1.5	SUS304	Silicone	Brown	M12	1
SZ-16N	30	6.8	18.4	5.3	16	1.9	SUS304	NBR	Black	M16	1
SZ-16S	30	6.8	18.4	5.3	16	1.9	SUS304	Silicone	Brown	M16	1
NEW SZ-3N-P	7	2.7	3.2	2.2	3.1	0.5	SUS304	NBR	Black	M 3	50
NEW SZ-3S-P	7	2.7	3.2	2.2	3.1	0.5	SUS304	Silicone	Brown	M 3	50
NEW SZ-4N-P	8	2.8	4.2	2.1	4.1	0.5	SUS304	NBR	Black	M 4	50
NEW SZ-4S-P	8	2.8	4.2	2.1	4.1	0.5	SUS304	Silicone	Brown	M 4	50
NEW SZ-5N-P	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	NBR	Black	M 5	50
NEW SZ-5S-P	9.5	3.6	5.2	2.7	5.1	0.8	SUS304	Silicone	Brown	M 5	50



- Hinged structure allows easy access for maintenance or replacement of components.
- 2, 3 and 4 way types are available.
- A screw type wiring connection is adopted; allowing for easy installation and removal.
- 4P pole models and no terminal models are available.

Technical Data

Protection class : Equivalent to IP68 (24-hours / 1m-depth)
 Operating temperature : -25°C ~ +60°C
 Recommended cover tightening torque : 0.5 ~ 0.6N • m



How to connect



Components

- PA66 = Polyamide 66
- PA6 = Polyamide 6

No.	Part name	Pcs	Material	Color / Finish
1	Body	1	PA66	Black
2	Hinged cover	1	PA66	Black
3	Gasket	1	Silicone	Yellow
4	Lock nut	2 ~ 4	PA6	Black
5	Sealing insert	2 ~ 4	Silicone	Green
6	Terminal block	1	PA6 / Brass	Nickel plated
7	Self-tapping screw	3	Stainless steel	Black / plated

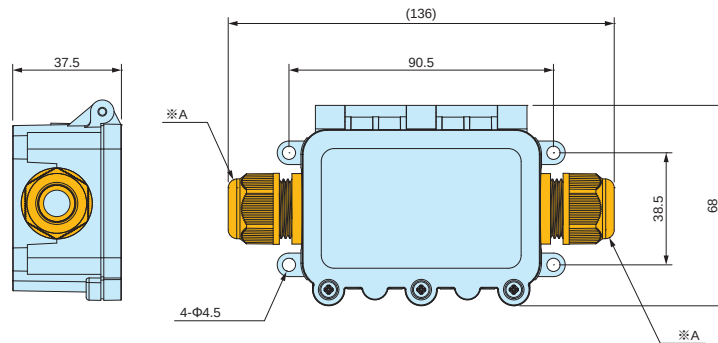
Product no. / Details

Product no.	W	D	H	Number of Poles	Branches	Cable range	
JW-2W-N	136	68	37.5	None	2	M20 : $\Phi 5 \sim \Phi 9$	
JW-2W-4P	136	68	37.5	4P	2	M20 : $\Phi 5 \sim \Phi 9$	
JW-3W-N	136	81	37.5	None	3	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-3W-4P	136	81	37.5	4P	3	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-4W-N	136	97	37.5	None	4	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$
JW-4W-4P	136	97	37.5	4P	4	M20 : $\Phi 5 \sim \Phi 9$	M16 : $\Phi 7 \sim \Phi 10$

JW dimensions

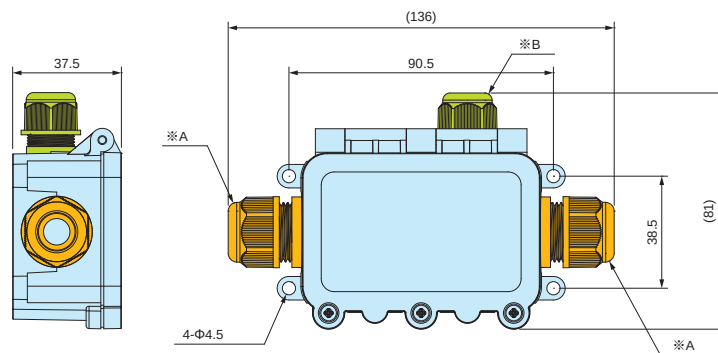
■ DXF/DWG/PDF drawings available on our website.

JW-2W-N • JW-2W-4P



*A : M20 Cable gland

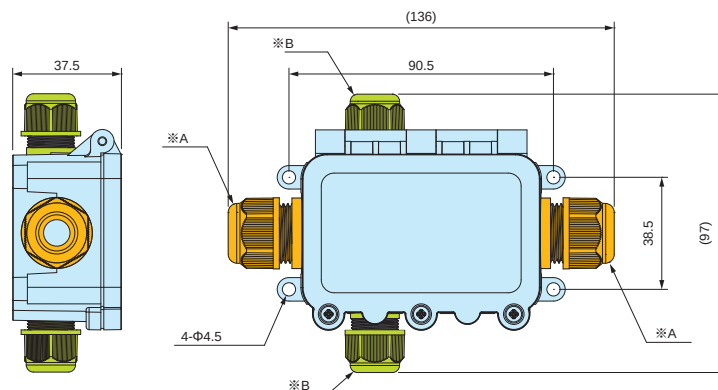
JW-3W-N • JW-3W-4P



*A : M20 Cable gland

*B : M16 Cable gland

JW-4W-N • JW-4W-4P



*A : M20 Cable gland

*B : M16 Cable gland

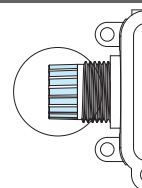
Accessories (Optional parts)

RBM series

SEALING INSERT for JW



- Recommended to be used to change to a compatible cable diameter.
- Do not bend the blue part (shown in the figure) outwards with excessive force or it may cause damage when replacing sealing insert.
- Pay attention to the suitable cable gland and cable range when selecting.

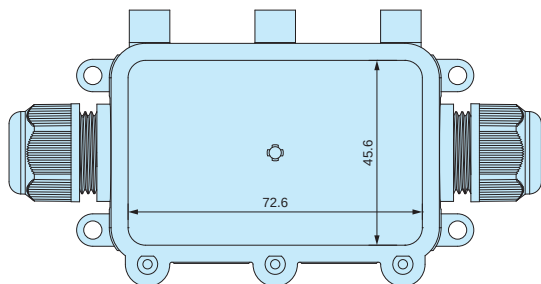


Product no. / Details

Product no.	Appearance	Suitable cable gland	Cable range	Material	Pack of
RBM20-12 (Dedicated for M20)		M20	$\Phi 9 \sim \Phi 12$	Silicone	10
RBM16-7 (Dedicated for M16)		M16	$\Phi 3.5 \sim \Phi 7$	Silicone	10

Terminal Block Diagram

JW-2W-N (No terminal model)



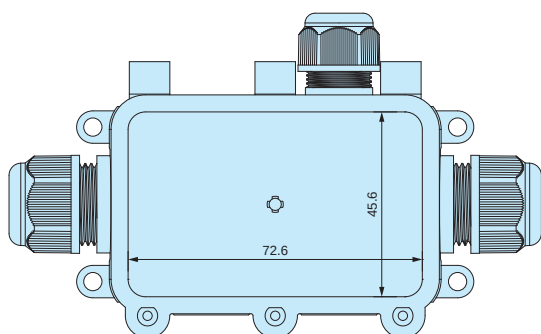
- No terminal model.
- Use for protecting the connected part.
- Protrusion on the center.

Installation example



- Use when utilizing other terminals or connecting without terminal.

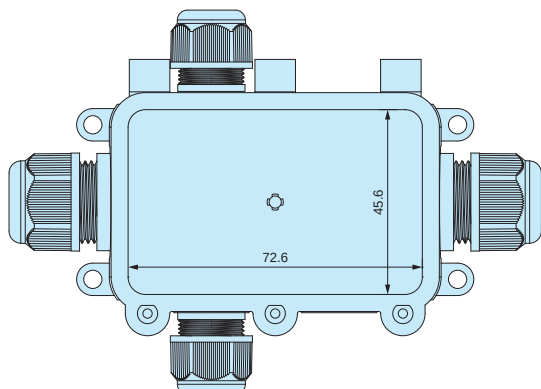
JW-3W-N (No terminal model)



Installation example



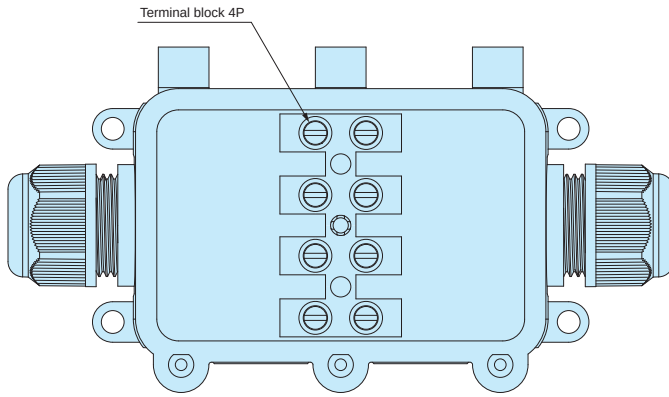
JW-4W-N (No terminal model)



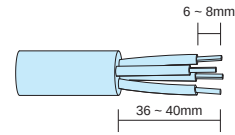
Installation example



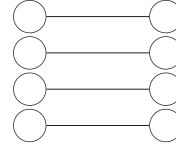
JW-2W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.



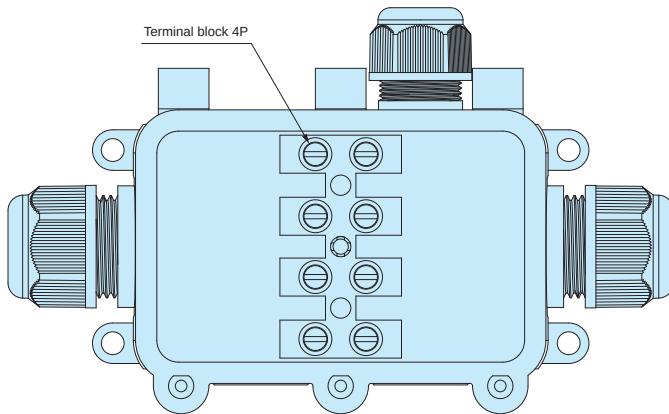
Wire Connection Diagram



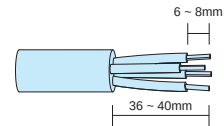
4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head

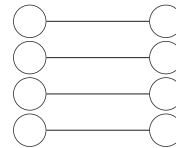
JW-3W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.



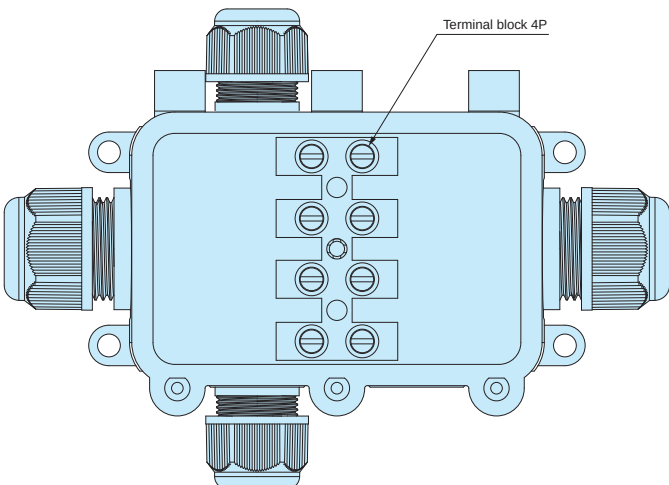
Wire Connection Diagram



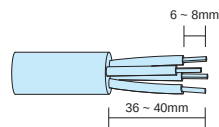
4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head

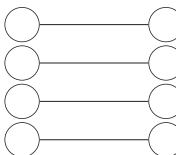
JW-4W-4P



- Wire connection dimensions below are for reference only; check under actual usage conditions.



Wire Connection Diagram



4P terminal block

Rated voltage / current	AC450V / 40A
Applicable wire	Max 1.0 ~ 5.5 mm ² (stranded wire)
Terminal screw	M3.5 minus head



IP67



- Weatherproof cable gland equipped with high ultraviolet and degradation resistant silicone sealing insert and O-ring.
- Recommended to use outdoors where waterproofing is critical.
- Protection class equivalent to IP67.

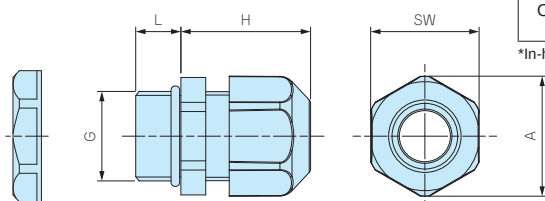
Components

■ PA = Polyamide

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	Silicone
3	Connector	PA66 UL94V-2
4	O-ring	Silicone
5	Lock nut	PA66 UL94V-2

RMW dimensions

- DXF/DWG/PDF drawings available on our website.



Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

Cap design varies by size



RMW40 or smaller



RMW50

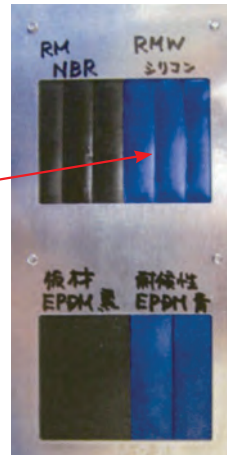
- Lock nut is not included for RMW10S-6.
- Please drill a proper thread hole into the enclosure for installation.

Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RMW8L-2.5B	RMW8L-2.5S	M8×1.25	Φ8.2	1	2.5	13	19.5	12	13.6	1
RMW8L-4B	RMW8L-4S	M8×1.25	Φ8.2	2.5	4	13	19.5	12	13.6	1
RMW10S-6B	RMW10S-6S	M10×1.5	—	3	6	8	20.5	13	14.6	1
RMW10L-6B	RMW10L-6S	M10×1.5	Φ10.2	3	6	13	20.5	13	14.6	1
RMW12S-7B	RMW12S-7S	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.7	1
RMW12L-7B	RMW12L-7S	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	1
RMW16S-8B	RMW16S-8S	M16×1.5	Φ16.2	4	8	9	23.5	19.2	21.3	1
RMW16L-8B	RMW16L-8S	M16×1.5	Φ16.2	4	8	15	24	19.2	21.3	1
RMW20S-12B	RMW20S-12S	M20×1.5	Φ20.2	6	12	10	29	24.3	26.8	1
RMW20L-12B	RMW20L-12S	M20×1.5	Φ20.2	6	12	15	28.5	24.3	26.8	1
RMW25L-17B	RMW25L-17S	M25×1.5	Φ25.2	11	17	15	35	33.3	36.8	1
RMW32L-21B	RMW32L-21S	M32×1.5	Φ32.3	13	21	15	38	36.1	39.8	1
RMW40L-27B	RMW40L-27S	M40×1.5	Φ40.3	18	27	18	43.5	46.1	51.2	1
RMW50L-38B	RMW50L-38S	M50×1.5	Φ50.4	27	38	20	50.5	60	66.5	1
RMW10L-6B-P	RMW10L-6S-P	M10×1.5	Φ10.2	3	6	13	20.5	13	14.6	100
RMW12S-7B-P	RMW12S-7S-P	M12×1.5	Φ12.2	3.5	7	9	20.5	16	17.7	100
RMW12L-7B-P	RMW12L-7S-P	M12×1.5	Φ12.2	3.5	7	14.5	20.5	16	17.7	100
RMW16S-8B-P	RMW16S-8S-P	M16×1.5	Φ16.2	4	8	9	23.5	19.2	21.3	100
RMW16L-8B-P	RMW16L-8S-P	M16×1.5	Φ16.2	4	8	15	24	19.2	21.3	100
RMW20S-12B-P	RMW20S-12S-P	M20×1.5	Φ20.2	6	12	10	29	24.3	26.8	100
RMW20L-12B-P	RMW20L-12S-P	M20×1.5	Φ20.2	6	12	15	28.5	24.3	26.8	100

RMW series silicone sealing insert weatherproof test report

Object: Cut into a piece of the silicone sealing insert from RMW series and attach it onto an aluminium plate.
For comparison, NBR sealing insert from our RM and EPDM sealing insert from another manufacturer is also attached.



Before



After

Testing conditions

Equipment : 7.5kW Super Xenon Weather Meter SX75 (Suga Test Instruments Co., Ltd.- <http://www.sugatest.co.jp/english/>)
Conditions : JIS B7754 : 1991

Testing with an authorized Xenon arc lamp weathering test equipment under the conditions denoted below.

Irradiance : 180W/m^2 at 300-400nm

Black Panel Temperature : $63\pm 3^\circ\text{C}$ Humidity Range : $50\pm 10\%$

Cycle Conditions : 120 minutes cycle (18 minutes irradiation + water spray - 102 minutes irradiation)

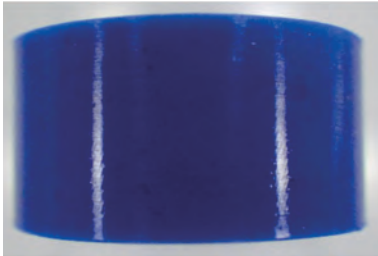
Time period : 2,000 hours (equivalent to a period of 4 years under natural conditions)

Total radiant exposure : 1296MJ/m^2

Test result (visual / touch inspection)

Silicone sealing insert material : No cracks, no gloss transition, no powder - no appearance change at all. Flexibility remains unchanged.

Before



After



NBR material from our RM series : Lost glossiness on the surface and material is stiffened.

Before

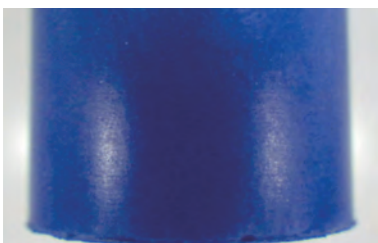


After

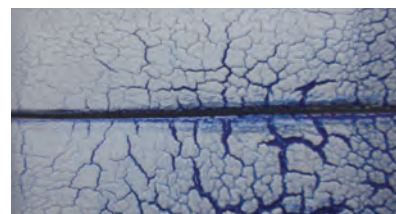


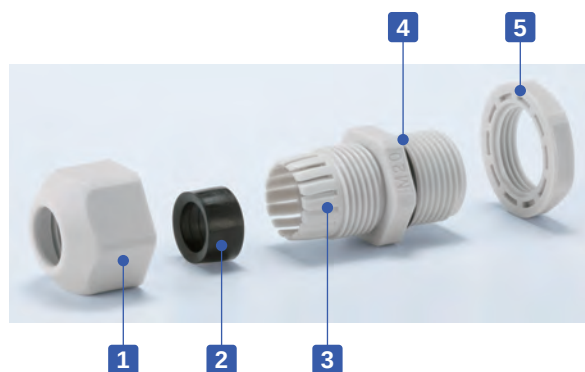
EPDM material from weatherproof cable gland of another manufacturer : Cracked, color drastically faded and powder appeared on the surface.

Before



After





- Low cost cable glands made from polyamide material.
- Wide selection, for M8 ~ M63, suitable for $\Phi 1\text{mm} \sim \Phi 44\text{ mm}$ cable.
- High oil resistant NBR rubber sealing and O-ring.
- Protection class equivalent to IP67.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

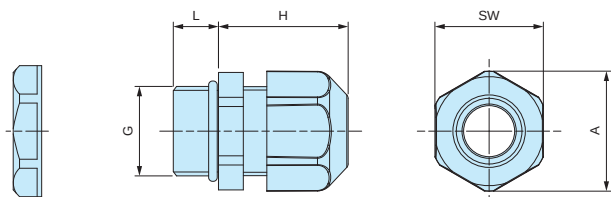
*In-house test

Components

■ PA = Polyamide

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	NBR
3	Connector	PA66 UL94V-2
4	O-ring	NBR
5	Lock nut	PA66 UL94V-2

RM dimensions ■ DXF/DWG/PDF drawings available on our website.



- Lock nut is not included for RM8S-2.5, 8S-4, and 10S-6 models.

Please drill an appropriate thread hole into the enclosure for installation.

Cap design varies by size



Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RM8S-2.5B	RM8S-2.5S	M8×1.25	—	1	2.5	7.5	19.5	12	13.6	1
RM8L-2.5B	RM8L-2.5S	M8×1.25	$\Phi 8.2$	1	2.5	13	19.5	12	13.6	1
RM8S-4B	RM8S-4S	M8×1.25	—	2.5	4	7.5	19.5	12	13.6	1
RM8L-4B	RM8L-4S	M8×1.25	$\Phi 8.2$	2.5	4	13	19.5	12	13.6	1
RM10S-6B	RM10S-6S	M10×1.5	—	3	6	8	20.5	13	14.6	1
RM10L-6B	RM10L-6S	M10×1.5	$\Phi 10.2$	3	6	13	20.5	13	14.6	1
RM12S-7B	RM12S-7S	M12×1.5	$\Phi 12.2$	3.5	7	9	20.5	16	17.7	1
RM12L-7B	RM12L-7S	M12×1.5	$\Phi 12.2$	3.5	7	14.5	20.5	16	17.7	1
RM16S-8B	RM16S-8S	M16×1.5	$\Phi 16.2$	4	8	9	23.5	19.2	21.3	1
RM16L-8B	RM16L-8S	M16×1.5	$\Phi 16.2$	4	8	15	24	19.2	21.3	1
RM20S-12B	RM20S-12S	M20×1.5	$\Phi 20.2$	6	12	10	29	24.3	26.8	1
RM20L-12B	RM20L-12S	M20×1.5	$\Phi 20.2$	6	12	15	28.5	24.3	26.8	1
RM25L-17B	RM25L-17S	M25×1.5	$\Phi 25.2$	11	17	15	35	33.3	36.8	1
RM32L-21B	RM32L-21S	M32×1.5	$\Phi 32.3$	13	21	15	38	36.1	39.8	1
RM40L-27B	RM40L-27S	M40×1.5	$\Phi 40.3$	18	27	18	43.5	46.1	51.2	1
RM50L-38B	RM50L-38S	M50×1.5	$\Phi 50.4$	27	38	20	50.5	60	66.5	1
RM63L-44B	RM63L-44S	M63×1.5	$\Phi 63.4$	37	44	20	53	68	75.5	1
RM10L-6B-P	RM10L-6S-P	M10×1.5	$\Phi 10.2$	3	6	13	20.5	13	14.6	100
RM12S-7B-P	RM12S-7S-P	M12×1.5	$\Phi 12.2$	3.5	7	9	20.5	16	17.7	100
RM12L-7B-P	RM12L-7S-P	M12×1.5	$\Phi 12.2$	3.5	7	14.5	20.5	16	17.7	100
RM16S-8B-P	RM16S-8S-P	M16×1.5	$\Phi 16.2$	4	8	9	23.5	19.2	21.3	100
RM16L-8B-P	RM16L-8S-P	M16×1.5	$\Phi 16.2$	4	8	15	24	19.2	21.3	100
RM20S-12B-P	RM20S-12S-P	M20×1.5	$\Phi 20.2$	6	12	10	29	24.3	26.8	100
RM20L-12B-P	RM20L-12S-P	M20×1.5	$\Phi 20.2$	6	12	15	28.5	24.3	26.8	100
RM25L-17B-P	RM25L-17S-P	M25×1.5	$\Phi 25.2$	11	17	15	35	33.3	36.8	100

RSP series

STRAIN RELIEF CABLE GLAND



- A total of 14 models available for selection.
- Strain relief cap protects cables by preventing it from bending beyond its limit and breaking.
- Economical price but high waterproofing capability equivalent to IP67.

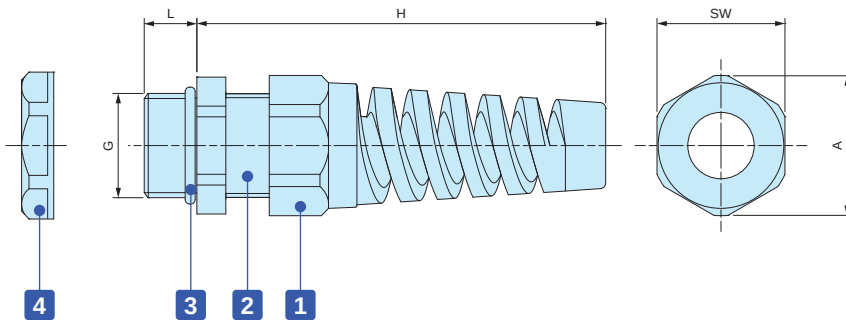
Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

RSP dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

■ PA = Polyamide

No.	Part name	Material
1	Strain relief cap	PA66 UL94V-2
-	Sealing insert	NBR
2	Connector	PA66 UL94V-2
3	O-ring	NBR
4	Lock nut	PA66 UL94V-2

Product no. / Details

Product no.		G		Cable range		L	H	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max					
RSP 8-2.5B	RSP 8-2.5S	M 8×1.25	Φ 8.2	1	2.5	10.5	48	12.1	13.8	1
RSP 8-4B	RSP 8-4S	M 8×1.25	Φ 8.2	2.5	4	10.5	48	12.1	13.8	1
RSP10-6B	RSP10-6S	M10×1.5	Φ10.2	3	6	12.2	54	13.1	14.5	1
RSP12-6B	RSP12-6S	M12×1.5	Φ12.2	3.5	6	9	62	16	17	1
RSP16-8B	RSP16-8S	M16×1.5	Φ16.2	4	8	9	69	19.5	21	1
RSP20-11B	RSP20-11S	M20×1.5	Φ20.2	6	11	10	82	24	26	1
RSP25-16B	RSP25-16S	M25×1.5	Φ25.2	11	16	12	102	33	36	1



- High water protection IP68 (1bar / 30min) polyamide cable gland.
- Wide selection, for M8 ~ M50, suitable for $\Phi 2.5\text{mm}$ ~ $\Phi 42\text{ mm}$ cable.
- Super tough and superior heat resistant PA6GF (glass fiber filled PA6) material on cap and connector.
- Safer halogen free, eco-friendly product.

Technical Data

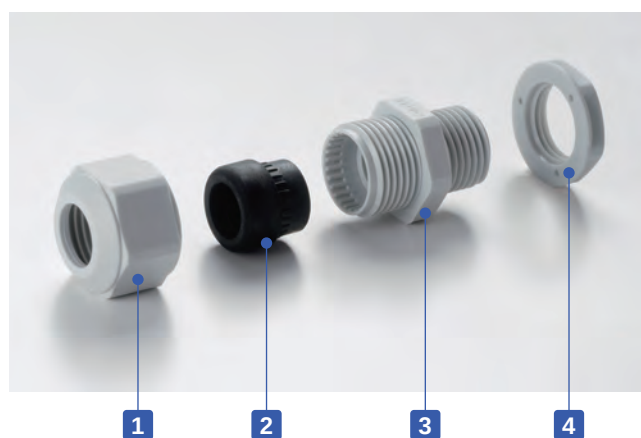
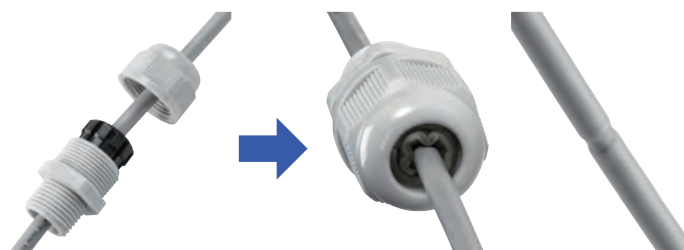
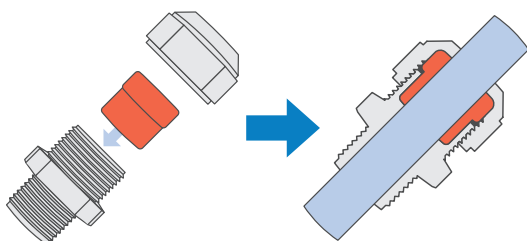
Protection class : IP68 1bar / 30min
 Operating temperature : -20°C ~ $+100^{\circ}\text{C}$
 Compliant with EN50262 Ver. A

AG series

Thicker sealing insert evenly hold a cable by having a larger holding area.
 Remains durable even after repeated tightening / loosening.

Lamellar insert type

If over-tightened, it can cause the rubber bush or cable to deform, which can allow water to seep in.



Components

■ PA6GF = Polyamide6 Glass Fiber Filled

No.	Part name	Material
1	Cap	PA6GF
2	Sealing insert	TPE
3	Connector	PA6GF
4	Lock nut	PA6

■ Lock nut is not included for M8 and M10 sizes.

Please drill an appropriate thread hole into the enclosure for installation.

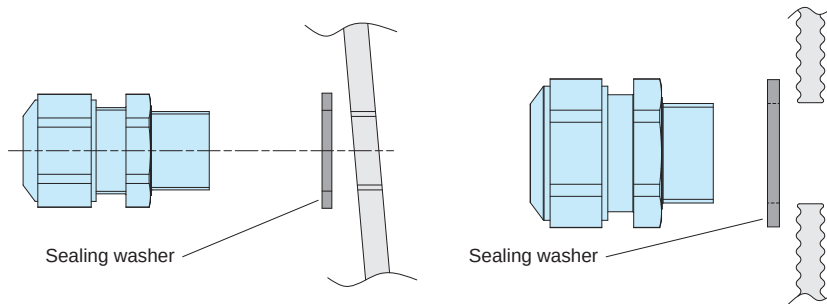
- Appropriate tightening torque varies by each cable diameter. Tighten the cap until top of the sealing insert forms a small bead between the cap and the cable.



■ No optional sealing washer is required when installing on an even surface because of the built-in waterproof rib.

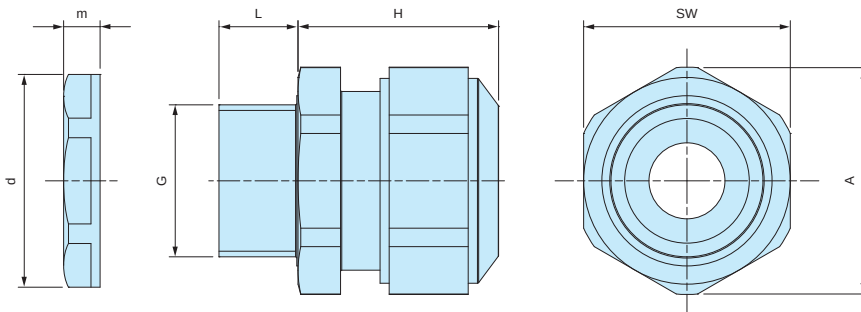
■ An optional sealing washer is required when installing on an uneven surface. (See website for more information on the optional sealing washer AGP series)

Waterproof rib



AG dimensions

■ DXF/DWG/PDF drawings available on our website.



■ Lock nut is not included for M8 and M10 sizes.

Please drill an appropriate thread hole into the enclosure for installation.

Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	d	m	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max							
AG8-3.5B	AG8-3.5S	M8×1.0	—	2.5	3.5	10	17	12	13.2	—	—	1
AG8-5B	AG8-5S	M8×1.0	—	3.5	4.7	10	17	12	13.2	—	—	1
AG10-6B	AG10-6S	M10×1.0	—	4	6	10	19	15	16.5	—	—	1
AG12-5B	AG12-5S	M12×1.5	Φ12.2	3.5	4.7	12	23.5	17	18.7	18.8	5	1
AG12-6.5B	AG12-6.5S	M12×1.5	Φ12.2	5	6.5	12	23	17	18.7	18.8	5	1
AG12-8B	AG12-8S	M12×1.5	Φ12.2	6.5	7.8	12	23	17	18.7	18.8	5	1
AG16-10B	AG16-10S	M16×1.5	Φ16.2	8	10	12	26	21	23.1	24.3	5	1
AG20-15B	AG20-15S	M20×1.5	Φ20.2	11	15	13	27	27	29.7	29	6	1
AG25-16B	AG25-16S	M25×1.5	Φ25.2	12.5	16	13	34	34	37.4	36	6.7	1
AG25-20B	AG25-20S	M25×1.5	Φ25.2	16	20	13	34	34	37.4	36	6.7	1
AG32-25.5B	AG32-25.5S	M32×1.5	Φ32.3	21	25.5	15	36	41	45.6	46	8	1
AG40-28.5B	AG40-28.5S	M40×1.5	Φ40.3	24	28.5	15	41	50	55.4	53.5	9	1
AG40-33B	AG40-33S	M40×1.5	Φ40.3	28.5	33	15	41	50	55.4	53.5	9	1
AG50-37B	AG50-37S	M50×1.5	Φ50.4	33	37	16	45	60	65.5	66	9.6	1
AG50-42B	AG50-42S	M50×1.5	Φ50.4	37	42	16	45	60	65.5	66	9.6	1

RMH series

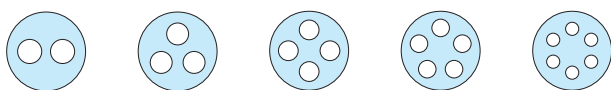
MULTI-HOLE CABLE GLAND



- Multihole cable gland with M threads.
- Multiple cables can be protected with single cable gland.
- Equivalent to IP65 protection class.
- Please use cables of the same diameter.



Up to a maximum of 6 cables can be protected with 1 cable gland.



Technical Data

Protection class : equivalent to IP65
Operating temperature : -20°C ~ +80°C

*In-house test

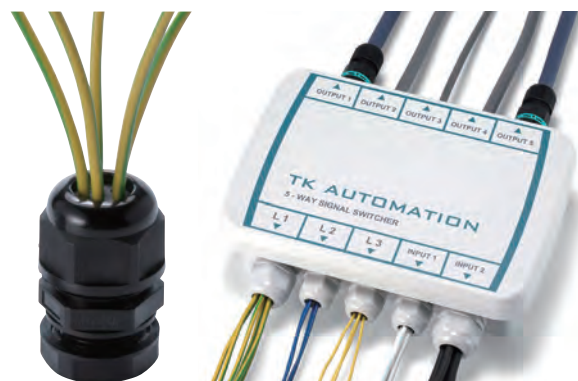
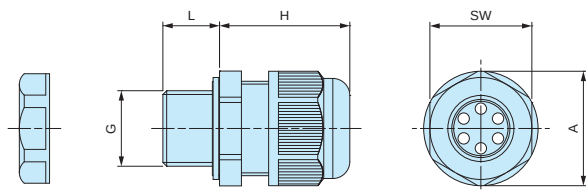
Components

No.	Part name	Material
1	Cap	PA66 UL94V-2
2	Sealing insert	NBR/PA66 UL94V-2
3	Connector	PA66 UL94V-2
4	O-ring	NBR
5	Lock nut	PA66 UL94V-2



RMH dimensions

■ DXF/DWG/PDF drawings available on our website.



Installation Examples

Product no. / Details

Product no.		G		Cable range		No. of holes	L	H	SW	A	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min.	Max.						
RMH12-2B	RMH12-2S	M12×1.5	Φ12.2	2.5	3	2	9.4	26	18.9	21.2	1
RMH12-3B	RMH12-3S	M12×1.5	Φ12.2	2	2.5	3	9.4	26	18.9	21.2	1
RMH12-4B	RMH12-4S	M12×1.5	Φ12.2	2	2.5	4	9.4	26	18.9	21.2	1
RMH16-2B	RMH16-2S	M16×1.5	Φ16.2	3	4	2	15	29	22	24.7	1
RMH16-3B	RMH16-3S	M16×1.5	Φ16.2	3	4	3	15	29	22	24.7	1
RMH16-4B	RMH16-4S	M16×1.5	Φ16.2	2	3	4	15	29	22	24.7	1
RMH16-5B	RMH16-5S	M16×1.5	Φ16.2	2	2.5	5	15	29	22	24.7	1
RMH16-6B	RMH16-6S	M16×1.5	Φ16.2	1.5	2	6	15	29	22	24.7	1
RMH20-2B	RMH20-2S	M20×1.5	Φ20.2	4.5	6	2	15	34.5	27	30.3	1
RMH20-3B	RMH20-3S	M20×1.5	Φ20.2	4	5	3	15	34.5	27	30.3	1
RMH20-4B	RMH20-4S	M20×1.5	Φ20.2	4	4.5	4	15	34.5	27	30.3	1
RMH20-5B	RMH20-5S	M20×1.5	Φ20.2	3	4	5	15	34.5	27	30.3	1
RMH20-6B	RMH20-6S	M20×1.5	Φ20.2	2	3	6	15	34.5	27	30.3	1
RMH25-2B	RMH25-2S	M25×1.5	Φ25.2	6	8	2	15	37.5	33	37	1
RMH25-3B	RMH25-3S	M25×1.5	Φ25.2	5	7	3	15	37.5	33	37	1
RMH25-4B	RMH25-4S	M25×1.5	Φ25.2	4	6	4	15	37.5	33	37	1
RMH25-5B	RMH25-5S	M25×1.5	Φ25.2	4.5	5.5	5	15	37.5	33	37	1
RMH25-6B	RMH25-6S	M25×1.5	Φ25.2	3	4.5	6	15	37.5	33	37	1
RMH32-2B	RMH32-2S	M32×1.5	Φ32.3	8.5	11	2	15	44	42	46.5	1
RMH32-3B	RMH32-3S	M32×1.5	Φ32.3	9	10	3	15	44	42	46.5	1
RMH32-4B	RMH32-4S	M32×1.5	Φ32.3	8	9	4	15	44	42	46.5	1
RMH32-5B	RMH32-5S	M32×1.5	Φ32.3	6	8	5	15	44	42	46.5	1
RMH32-6B	RMH32-6S	M32×1.5	Φ32.3	5.5	7	6	15	44	42	46.5	1

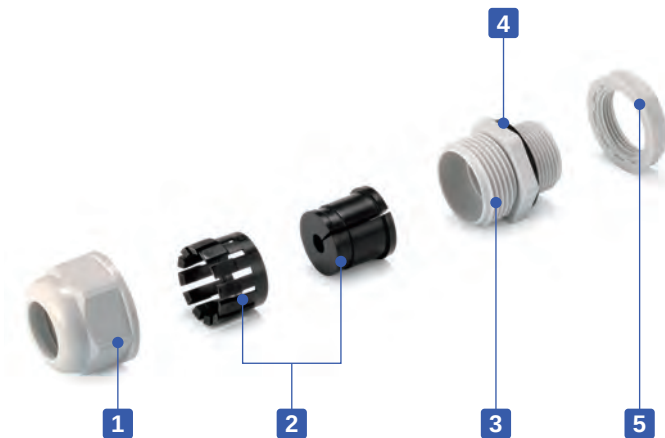


- Split type sealing insert can protect cables with connector.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

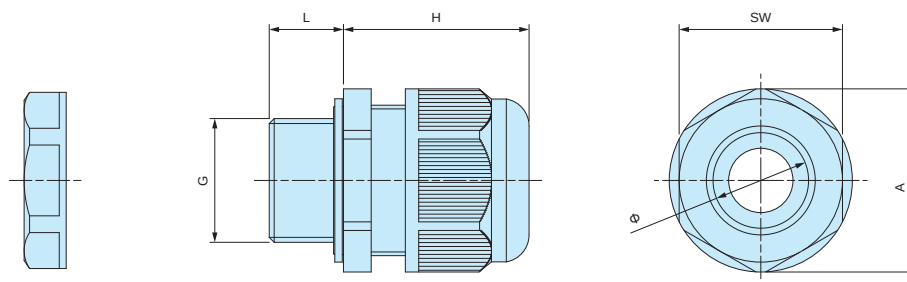


Components

No.	Part name	Material
1	Cap	PA66 (UL94V-2)
2	Sealing Insert	Silicone / PA66 (UL94V-2)
3	Connector	PA66 (UL94V-2)
4	Sealing Washer	Silicone
5	Lock Nut	PA66 (UL94V-2)

RSC dimensions

- DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.		G		Cable range		L	H Max	SW	A	Φ	Pack of
● Black	● Light gray	Thread size	Mounting hole	Min	Max						
RSC25-6.5B	RSC25-6.5S	M25×1.5	Φ25.2	5	6.5	15	37.5	33	37	19	1
RSC25-10.5B	RSC25-10.5S	M25×1.5	Φ25.2	7.5	10.5	15	37.5	33	37	19	1
RSC32-6.5B	RSC32-6.5S	M32×1.5	Φ32.3	5	6.5	15	44	42	46.5	25	1
RSC32-10.5B	RSC32-10.5S	M32×1.5	Φ32.3	7.5	10.5	15	44	42	46.5	25	1



- High water protection IP68 (1bar / 30min) metal cable gland.
- Wide selection, for M6 ~ M50.
Suitable for $\Phi 2$ mm ~ $\Phi 42$ mm cable.

Technical Data

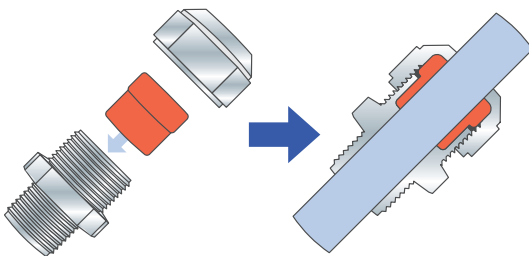
Protection class : IP68 1bar / 30min
 Operating temperature : -40°C ~ +100°C
 Compliant with EN50262 Ver. A

AGM series

Thicker sealing insert evenly hold a cable by having a larger holding area.
 Remains durable even after repeated tightening / loosening.

Lamellar insert type

If over-tightened, it can cause the rubber bush or cable to deform,
 which can allow water to seep in.



- Appropriate tightening torque varies by each cable diameter.
 Tighten the cap until top of the sealing insert forms a small bead between the cap and the cable.

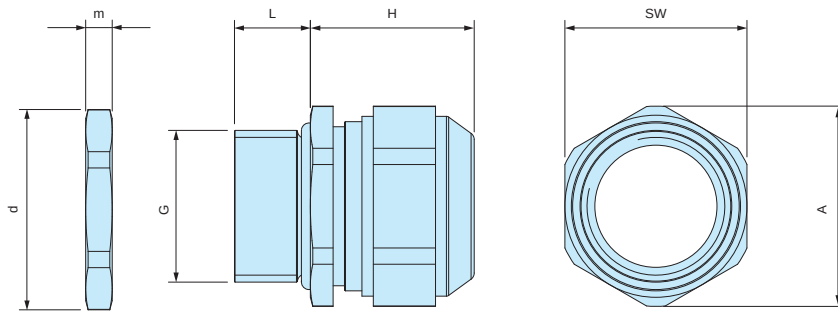


Components

No.	Part name	Material	Color / Finish
1	Cap	Brass	Nickel plated
2	Sealing insert	TPE	Black
3	Connector	Brass	Nickel plated
-	O-ring	NBR	Black
4	Lock nut	Brass	Nickel plated

AGM dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	G		Cable range		L	H Max	SW	A	d	m	Pack of
	Thread size	Mounting hole	Min	Max							
AGM6-2.5	M6×1.0	Φ6.2	2	2.5	8	12	8	9	10	2.8	1
AGM6-3	M6×1.0	Φ6.2	2.5	3.0	8	12	8	9	10	2.8	1
AGM6-3.5	M6×1.0	Φ6.2	3.0	3.5	8	12	8	9	10	2.8	1
AGM8-5	M8×1.25	Φ8.2	3.5	4.7	10	14	11	12	12	3	1
AGM10-6	M10×1.5	Φ10.2	4.0	6.0	10	15	13	14.3	14	2.8	1
AGM12-8	M12×1.5	Φ12.2	6.5	8.0	10	17	15	16.5	16.5	2.8	1
AGM16-10.5	M16×1.5	Φ16.2	8.0	10.5	10	21	18	20	21	3	1
AGM20-15	M20×1.5	Φ20.2	11.0	15.0	10	23	24	26.5	26.5	3.5	1
AGM25-20	M25×1.5	Φ25.2	16.0	20.0	11	28	30	33	33	4	1
AGM32-25.5	M32×1.5	Φ32.3	21.0	25.5	13	29.5	36	39.5	39.5	4	1
AGM40-28.5	M40×1.5	Φ40.3	24.0	28.5	13	32	46	50.7	51	5	1
AGM40-33	M40×1.5	Φ40.3	28.5	33.0	13	32	46	50.7	51	5	1
AGM50-37	M50×1.5	Φ50.4	33.0	37.0	14	34	55	59.7	60	5.5	1
AGM50-42	M50×1.5	Φ50.4	37.0	42.0	14	34	55	59.7	60	5.5	1



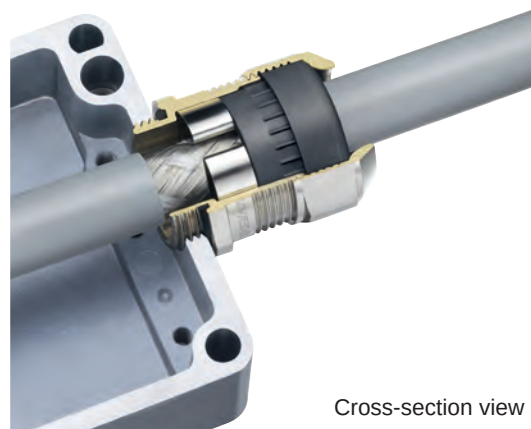
- Optimal contact spring provides excellent shield contact and the smallest possible transfer impedance.
- Clawed lock nut makes a good EMC shield contact possible on conductive enclosures.
- Shape of the contact spring not only allows for a large clamping range to the shield but also enables easy and faster installation and re-installation.
- 2-piece detachable sealing inserts can be adapted to the wider existing cable diameter on site.
(AGE12 available only with 1-piece sealing insert)

Technical Data

Protection class : IP68 2bar / 30min, IP69K
 Operating temperature : -60°C ~ +100°C
 Compliant with IEC62444 Var. A

Cable Range

No.	Sealing insert type	
	Assembled	Detached
AGE16-10.5	Φ 6 ~ Φ 7.5	Φ 7.5 ~ Φ10.5
AGE20-15	Φ 8 ~ Φ10.5	Φ10.5 ~ Φ15
AGE25-20	Φ12.5 ~ Φ15	Φ15 ~ Φ20
AGE32-25	Φ17 ~ Φ20	Φ20 ~ Φ25

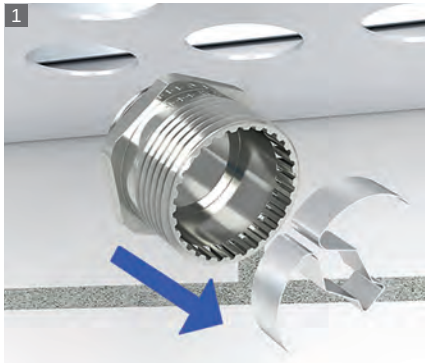


Cross-section view

Components

No.	Part name	Material	Color / Finish
1	Cap	Brass	Nickel plated
2	Sealing insert	TPE	Black
3	Connector	Brass	Nickel plated
4	Contact spring	Stainless steel	Unfinished
-	O-Ring	NBR	Black
5	Lock-nut	Brass	Nickel plated

INSTALLATION Instruction



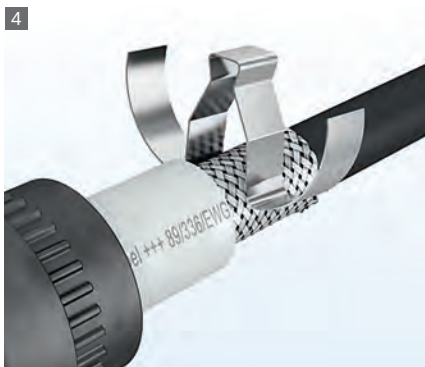
Remove the contact spring from the connector.



Install the connector onto the enclosure.



Strip the cable.



Clip the contact spring on the shielded cable.



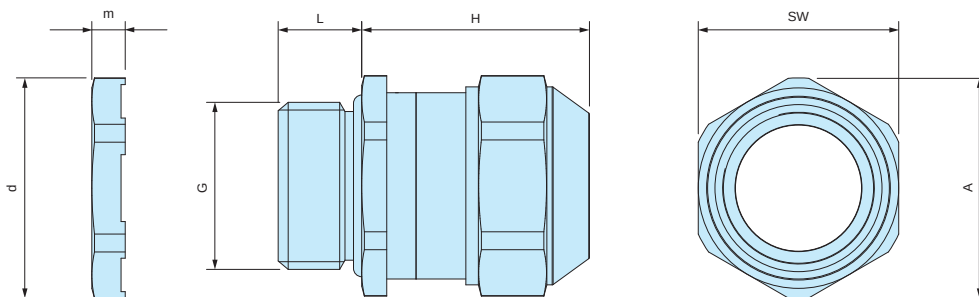
Pass the cable through the sealing insert and cap.



Tighten the cap to complete.

AGE dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	G		Cable range		L	H Max	SW	A	d	m	Pack of
	Thread size	Mounting hole	Min	Max							
AGE12-5	M12×1.5	Φ12.2	3.5	5.0	10	22	15	16.5	16.5	3.5	1
AGE12-6.5	M12×1.5	Φ12.2	5.0	6.5	10	22	15	16.5	16.5	3.5	1
AGE16-10.5	M16×1.5	Φ16.2	6.0	10.5	10	25	18	20	21	3.5	1
AGE20-15	M20×1.5	Φ20.2	8.0	15.0	10	27	24	26.5	26.5	4	1
AGE25-20	M25×1.5	Φ25.2	12.5	20.0	11	33	30	33	33	4	1
AGE32-25	M32×1.5	Φ32.3	17.0	25.0	13	34	36	39.5	39.5	5	1



- Economical metal cable gland.
- Equivalent to IP67 protection class.
- Wide selection available from M12 ~ M32.

Technical Data

Protection class : Equivalent to IP67*
Operating temperature : -20°C ~ +80°C

*In-house test

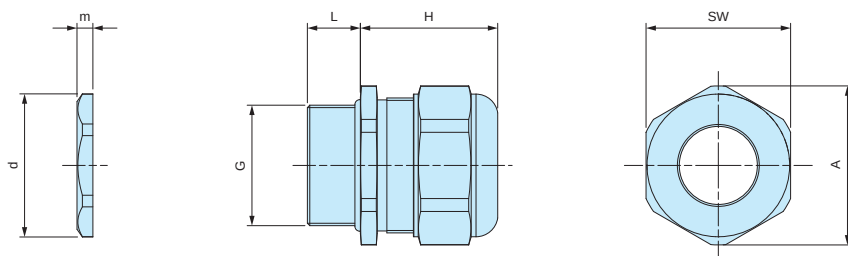


Components

No.	Part name	Material	Color / Finish
1	Cap	Brass	Nickel plated
2	Sealing Insert	TPE	Black
3	Connector	Brass	Nickel plated
—	O-ring	NBR	Black
4	Lock Nut	Brass	Nickel plated

RMC dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	G		Cable range		L	H Max	SW	A	d	m	Pack of
	Thread size	Mounting hole	Min	Max							
RMC12-6.5	M12×1.5	Φ12.2	5	6.5	10	18	15	16.5	15.4	2.5	1
RMC12-7.5	M12×1.5	Φ12.2	6.5	7.5	10	18	15	16.5	15.4	2.5	1
RMC16-8	M16×1.5	Φ16.2	6.5	8	10	23	18	19.7	19.7	2.8	1
RMC16-10.5	M16×1.5	Φ16.2	8	10.5	10	23	18	19.7	19.7	2.8	1
RMC20-11	M20×1.5	Φ20.2	9.5	11	10	23.5	24	26.4	24.2	3.2	1
RMC20-14.5	M20×1.5	Φ20.2	11	14.5	10	23.5	24	26.4	24.2	3.2	1
RMC25-16	M25×1.5	Φ25.2	14	16	11	28.5	30	33	29.7	3.3	1
RMC25-19	M25×1.5	Φ25.2	16	19	11	28.5	30	33	29.7	3.3	1
RMC32-21	M32×1.5	Φ32.3	18	21	13	30.5	36	39.6	37.4	3.5	1
RMC32-25.5	M32×1.5	Φ32.3	21	25.5	13	30.5	36	39.6	37.4	3.5	1

SHP series

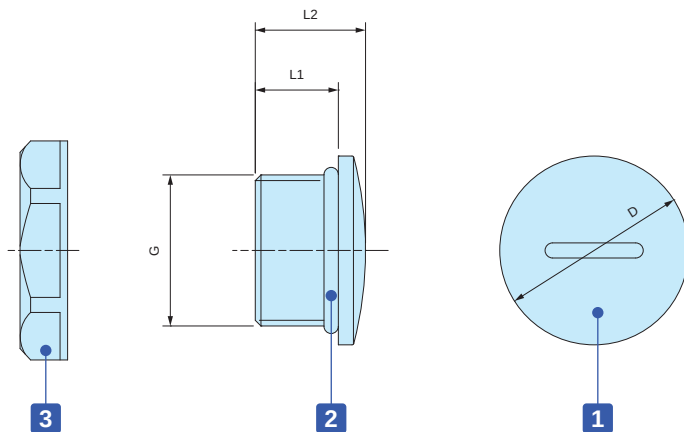
BLIND PLUG with O-ring

IP67



- A hole plug for sealing holes that are not in use.
- IP67 rating is achieved through the use of a lock nut.
- Waterproofing is not guaranteed when directly secured through thread holes.

SHP dimensions



A gloss-like finish distinctive to injection molded products may be visible in certain areas of the black color type. This does not affect the performance of the product.

Components

■ PA = Polyamide

No.	Part name	Material
1	Housing	PA66 (UL94V-2)
2	O-ring	NBR
3	Lock nut	PA66 (UL94V-2)

Product no. / Details

Product no.		G		D	L1	L2	Pack of
● Black	● Light gray	Thread size	Mounting hole				
SHP-12B	SHP-12S	M12×1.5	Φ12.2	Φ16	9	12.2	1
SHP-16B	SHP-16S	M16×1.5	Φ16.2	Φ20	9	12.2	1
SHP-20B	SHP-20S	M20×1.5	Φ20.2	Φ25	11	14.6	1
SHP-25B	SHP-25S	M25×1.5	Φ25.2	Φ30	11	14.5	1
SHP-32B	SHP-32S	M32×1.5	Φ32.3	Φ38	11	15	1
SHP-40B	SHP-40S	M40×1.5	Φ40.3	Φ46	12	16	1

CVP series

VENTILATION PLUG



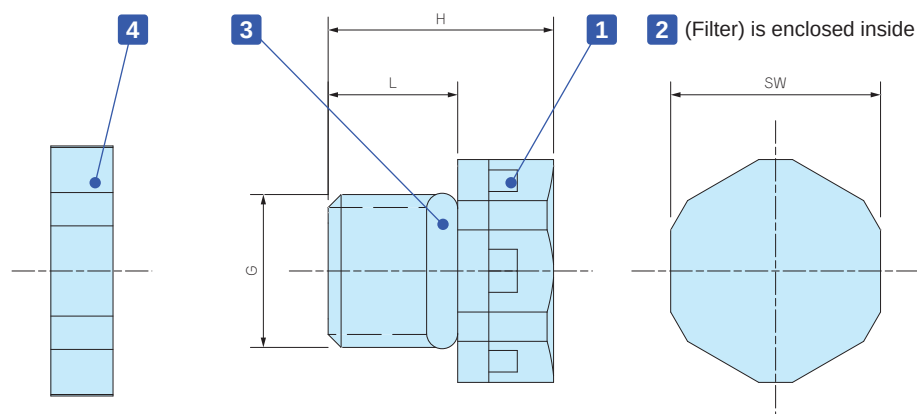
Pressure Equalization / Ventilation



- IP68 protection class rated (water depth 2 meters / 60 mins) yet highly affordable economical ventilation plug.
- Ventilation plug protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- 50 pcs value pack is available for CVP-6, 12 and 16 models.
- Recommended to be installed at the sides of the enclosure.

CVP dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

■ PA = Polyamide

No.	Part name	Material
1	Housing	PA66 (UL94V-2)
2	Filter	PTFE
3	O-ring	Silicone
4	Lock nut	PA66 (UL94V-2)

Technical Data

Product no.	CVP-6W/B	CVP-12W/B	CVP-16W/B	CVP-24W/B
Airflow	600ml / min (dp = 7kPa)	1200ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)
Certification	IP68 (1hours / 2m-depth)			
Operating temperature	-20°C ~ +80°C			

■ Airflow value listed is for reference only; check under actual usage conditions.

Product no. / Details

Product no.		G		SW	H	L	Pack of	Weight (g)
● Off-white	● Black	Thread size	Mount hole					
CVP- 6W	CVP- 6B	M 6 × P0.75	Φ 6.2	10	12.7	8.2	1	0.8
CVP-12W	CVP-12B	M12 × P1.5	Φ12.2	16.2	17.4	10	1	2.7
CVP-16W	CVP-16B	M16 × P1.5	Φ16.2	22	17	10.1	1	4.2
CVP-24W	CVP-24B	M24 × P1.5	Φ24.2	36	23.6	15	1	10.7
CVP- 6W-P	CVP- 6B-P	M 6 × P0.75	Φ 6.2	10	12.7	8.2	50	—
CVP-12W-P	CVP-12B-P	M12 × P1.5	Φ12.2	16.2	17.4	10	50	—
CVP-16W-P	CVP-16B-P	M16 × P1.5	Φ16.2	22	17	10.1	50	—

PMF-6B

SMALL PROTECTIVE VENT

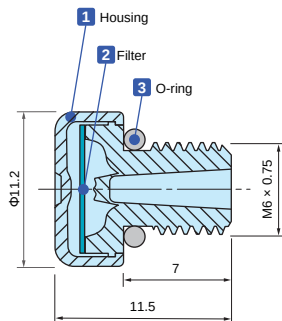
IP68



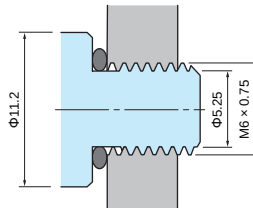
Application example

- Small and screw-in protective vent suitable for compact, and hand-held type devices.
- IP68 protection class (water depth 2 meters / 60 mins) and -40°C ~ +150°C operating temperature range allows it to be used in various environments.
- Suitable for enclosures with capacities of 2.0 litres or under.
- For outdoor use, installation on the side of the enclosure unit is recommended.

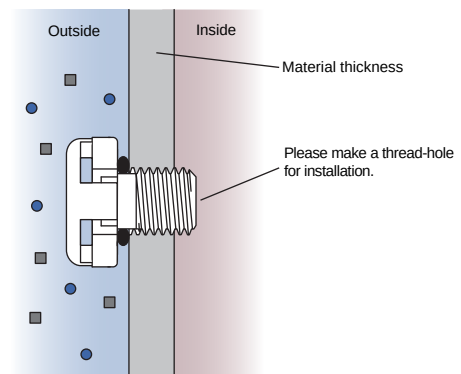
PMF-6B dimensions



Hole milling drawings



Installation drawings



Technical Data

Airflow	300ml / min (dp = 7 kPa)
Recommended Torque	0.2 ~ 0.4 N • m
Certifications	IEC60529 (Protection class test) : IP66 • IP67 • IP68 IEC60068-2-1, 2, 14 (Heat resistance test) : -40°C ~ +150°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1000 hours IEC60068-2-64 (Vibration test) UL94V-0 (Flame-resistant) • UL746C f1

Product no. / Details

Product no.	Material			G	
● Black	1 Housing	2 Filter	3 O-ring	Thread size	Mount hole
PMF-6B	PA6 (Body) • PA66 (Cap)	PTFE	Silicone	M6 x 0.75	—

PMF series

PROTECTIVE VENT

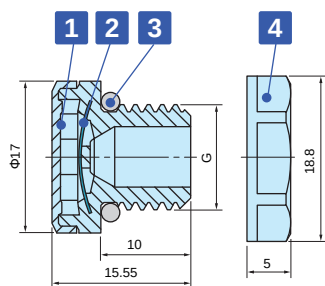
Pressure Equalization / Ventilation



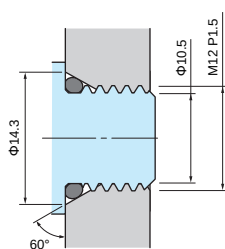
- Protective vent protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- IP68 protection class (water depth 2 meters / 60 mins) with an operating temperature range -40°C ~ +125°C allows them to be used in harsh environments.
- PMF-12 and PMF-12HS models are suitable for up to 5 and 50 liters respectively.
- Recommended to be installed at the sides of the enclosure.
- Use in industrial and electrical / electronic products only; not suitable to be used in medical, food and beverage, and cosmetic industries and related industrial equipment.

PMF dimensions

■ DXF/DWG/PDF drawings available on our website.

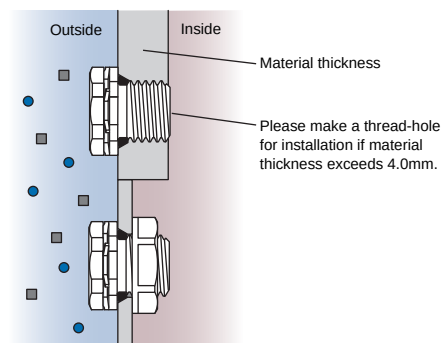


Hole milling drawings



- Recommended for prevention of O-ring deformation during tightening.
If tightened with a lock nut, a standard through-hole is sufficient for installation.

Installation drawings



- If used with a lock nut, material thickness should not exceed 4.0mm.

Technical Data

Product no.	PMF-12	PMF-12HA
Airflow	450ml / min (dp = 7kPa)	4,000ml / min (dp = 7kPa)
Recommended torque	0.6 ~ 0.8N • m	0.6 ~ 0.8N • m
Certifications	IEC60529 (Protection class test) : IP65 • IP66 • IP67 • IP68 • IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : - 40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1,000 hours IEC60068-2-11, 52 (Salt spray test) IEC60068-2-64 (Vibration test) GR-3108-CORE (Corrosive gas test) UL 94V-0 (Flame-resistant) • UL 746C f1	

Product no. / Details

Product no.		Material				G		Lock nut SW
● Light gray	● Black	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Mount hole	
PMF-12S	PMF-12B	PA66 / 6	PTFE	Silicone	PA66 (UL94V-2)	M12 x P1.5	Φ12.2	17
PMF-12HAS	PMF-12HAB	PA66 / 6	PTFE	Silicone	PA66 (UL94V-2)	M12 x P1.5	Φ12.2	17

PMF-32S

LARGE PROTECTIVE VENT

Pressure Equalization / Ventilation



Application Example

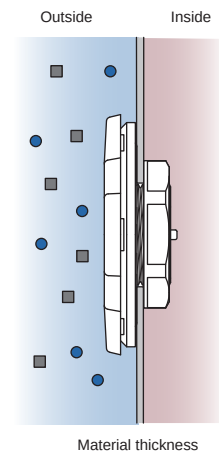
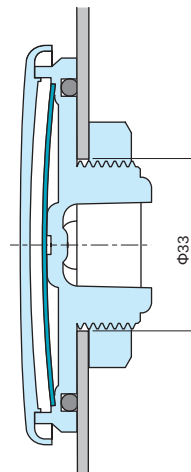
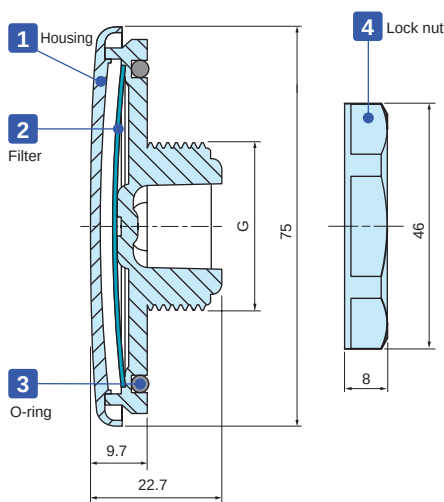
- Maintains exceptionally high airflow in extra-large enclosures with volumes of up to 200 liters in an outdoor environment.
- Protective vent protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- Simple and flat design allows it to be used on a wide variety of enclosure types.
- IP68 protection class rated (water depth 2 meters / 60 mins) with an operating temperature range of -40°C ~ +125°C allows it to be used in harsh environments.
- Compliant with Solar industry testing IEC62108 standards.
- Recommended to be installed at the sides of the enclosure.
- Use in industrial and electrical / electronic products only; not suitable to be used in medical, food and beverage, and cosmetic industries and related industrial equipment.

■ DXF/DWG/PDF drawings available on our website.

PMF-32 dimensions

Hole milling drawings

Installation drawings



■ If used with a lock nut, material thickness should not exceed 5.0mm.

Technical Data

Airflow	16ℓ / min (dp = 1.2kPa)
Recommended torque	5 N • m
Certifications	IEC529, 2nd (Protection class test) : IP66 • IP67 • IP68 • IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : - 40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1,000 hours IEC60068-2-11, 52 (Salt spray test) IEC60068-2-64 (Vibration test) IEC62108, 10.8 • 9 (Solar industry test) : Freezing • High temperature tes • Hail impact test GR-3108-CORE (Corrosive gas test) UL94V-0 (Flame-resistant) • UL746C f1

Product no. / Details

Product no.	Material				G			Lock nut SW
	1 Housing	2 Filter	3 O-ring	4 Lock nut	Thread size	Thread diameter	Mount hole	
PMF-32S	Polycarbonate	PTFE	Silicone	PA66	M32 x P1.5	Φ32	Φ33	41.5

CVP-M series

METAL VENTILATION PLUG



Pressure Equalization / Ventilation

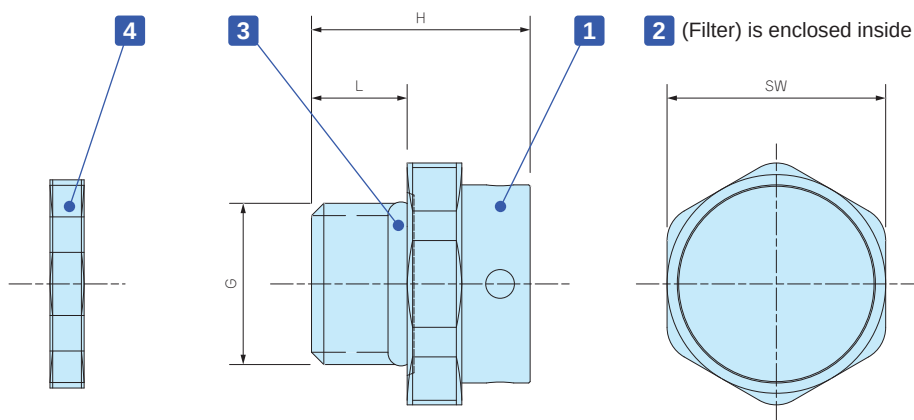
IP68



- High durability yet highly affordable economical metal ventilation plug.
- IP68 protection class rated (water depth 2 meters / 60 mins)
- Ventilation plug protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- Recommended to be installed at the sides of the enclosure.

CVP-M dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

No.	Part name	Material
1	Housing	Brass / Nickel plated
2	Filter	PTFE
3	O-ring	Silicone
4	Lock nut	Brass / Nickel plated

Technical Data

Product no.	CVP-6M	CVP-12M	CVP-20M
Airflow	400ml / min (dp = 7kPa)	1200ml / min (dp = 7kPa)	1600ml / min (dp = 7kPa)
Certification	IP68 (1 hour / 2m depth)		
Operating temperature	-40°C ~ +100°C		

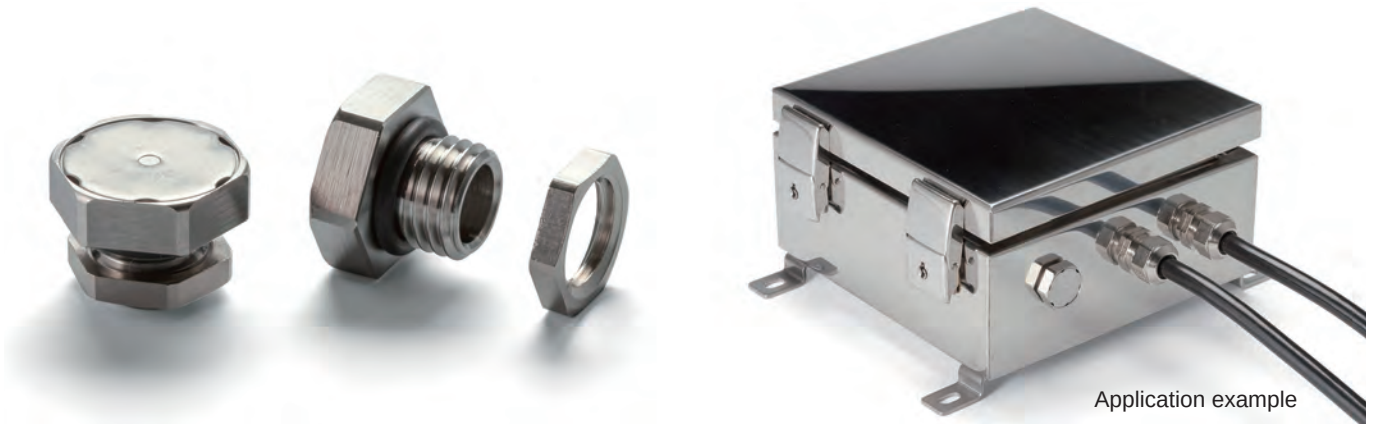
■ Airflow value listed is for reference only; check under actual usage conditions.

Product no. / Details

Product no.	G		SW	H	L	Weight (g)
● Silver	Thread size	Mount hole				
CVP- 6M	M 6 × P1	Φ 6.2	10	15	7	6.2
CVP-12M	M12 × P1.5	Φ12.2	16	16	7	14
CVP-20M	M20 × P1.5	Φ20.2	22	18.9	10	40.2

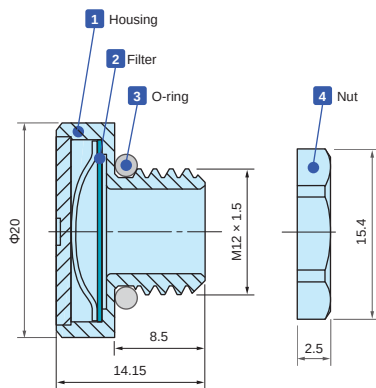
PMF-12M

STAINLESS STEEL PROTECTIVE VENT

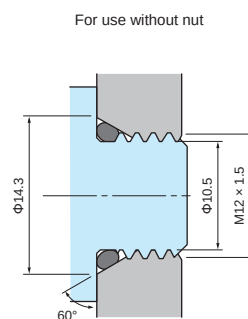


- Stainless steel protective vent for superior durability and chemical resistance.
- IP68 protection class (water depth 2 meters / 60 mins) and -40°C ~ +125°C operating temperature range allows it to be used in various environments.
- Suitable for enclosures with capacities of 20 litres or under.
- For outdoor use, installation on the side of the enclosure unit is recommended.

PMF-12M dimensions

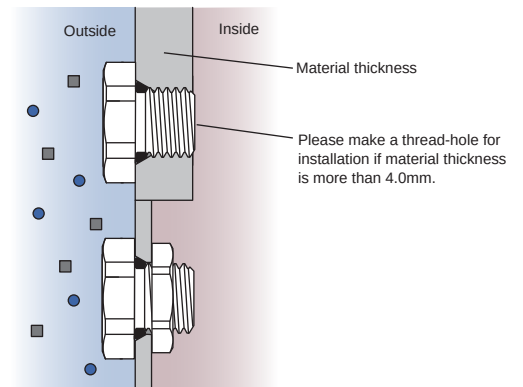


Hole milling drawings



- While $\Phi 12.2$ mm through-hole is sufficient for installation, 60° angle tapered hole is recommended to prevent deformation of the O-ring.

Installation drawings



- If used with a lock nut, material thickness should not exceed 4.0mm.

Technical Data

Airflow	1600ml / min (dp = 7 kPa)
Recommended Torque	0.6 ~ 1.2 N • m
Certifications	IEC60529 (Protection class test) : IP66 • IP67 • IP68 • IP69K IEC60068-2-1, 2, 14 (Heat resistance test) : -40°C ~ +125°C IEC60068-2-78 (Humidity test) : 85°C • 85% humidity • 1000 hours IEC60068-2-64 (Vibration test)

Product no. / Details

Product no.	Material				G		Nut SW
● Metallic	1 Housing	2 Filter	3 O-ring	4 Nut	Thread size	Mount hole	
PMF-12M	Stainless steel	PTFE	Silicone	Brass • Nickel plated	M12 x 1.5	$\Phi 12.2$	14

VE8 series

ADHESIVE PROTECTIVE VENT FILTER



Technical Data

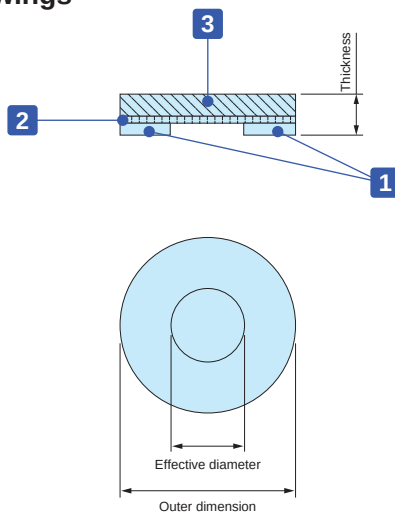
Protection class : Dustproof IP6X
 Waterproof IPX4, IPX7
 Airflow : 3,300ml/min/cm² (at 7Kpa)
 Operating temperature : -40°C ~ +100°C

- Vent filter protects the enclosure from deformation by equalizing internal and external pressure differences, as well as venting the gas generated within the enclosure.
- Allows water vapor molecules to diffuse through the microporous membrane.
- Highly water and oil repellent membrane protects electronic components from water, corrosive liquids, salts and dust.
- Easy installation adhesive filter.
- Recommended to be adhered onto flat plastic or metallic surfaces.

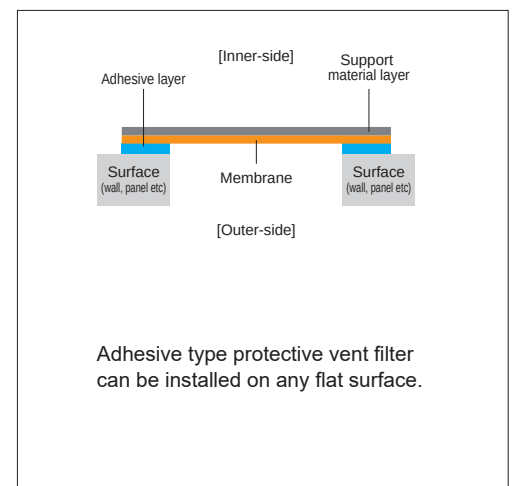
CAUTION

- Install only on the inner surface of the case / box with the membrane and adhesive side facing outwards.
- An initial period of 24 hours is required for the adhesive to properly bond to the surface. Avoid using the vent filter with a heavy load.
- Please do not adhere onto the top-side of enclosures. Rain water etc. will collect on the filter, which will weaken the adhesive seal and prevent proper ventilation.
- After degreasing and cleaning, adhere the filter without touching the center part of the vent filter.
- Use in industrial and electrical / electronic products only; not suitable to be used in medical, food and beverage, and cosmetic industries and related industrial equipment.

VE8 drawings



Installation drawings



Components

No.	Part name	Material	Color
1	Adhesive	Acrylic adhesive	Transparent
		Silicon adhesive (VE82029S, VE82029S-S)	
2	Filter	ePTFE (Oil-repellent type)	White
3	Support material	Polyester fabric	White

Product no. / Details

Product no.	Outer dimension (Φ-mm)	Effective diameter (Φ-mm)	Thickness (mm)	Sales unit
VE80308	7.6	3.3	0.26	8 pcs (per pack)
VE80814	14.0	8.0	0.26	4 pcs (per pack)
VE81221	21.5	12.5	0.26	4 pcs (per pack)
VE82029S	29.0	20.0	0.35	2 pcs (per pack)
VE80308-S	7.6	3.3	0.26	96 pcs (per sheet)
VE80814-S	14.0	8.0	0.26	56 pcs (per sheet)
VE81221-S	21.5	12.5	0.26	20 pcs (per sheet)
VE82029S-S	29.0	20.0	0.35	10 pcs (per sheet)

V series

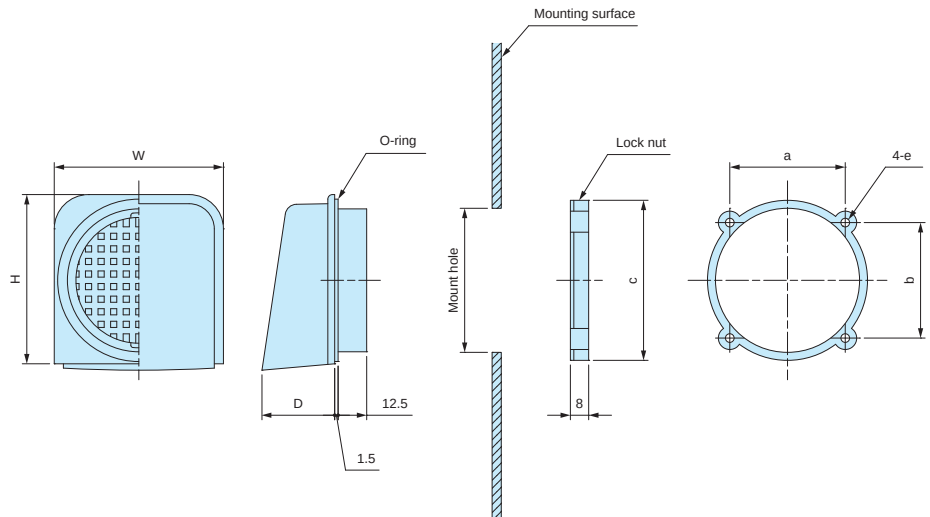
VENTILATION LOUVER



- Recommended for condensation prevention and heat dissipation.
- 2 models available : ABS V60, V80 match the color for BCAP and BCAR series, and polycarbonate V60S and V80S match the color for BCPC, BCPK, and BCAR series.
- Suitable to be used on a variety of enclosure types, series and models.

V dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	Material	Color	Mount hole	W	H	D	a	b	c	e
V60	ABS	White gray	Φ63	74	74	31.8	50.5	50.5	70	Φ3.8
V80	ABS	White gray	Φ88	100	100	37	71.5	71.5	94.8	Φ3.3
V60S	Polycarbonate	Light gray	Φ63	74	74	31.8	50.5	50.5	70	Φ3.8
V80S	Polycarbonate	Light gray	Φ88	100	100	37	71.5	71.5	94.8	Φ3.3

■ O-ring material : EPDM / Black

VF series

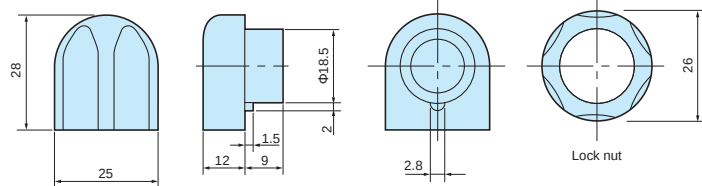
VENTILATION PARTS

VF dimensions

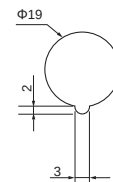
■ DXF/DWG/PDF drawings available on our website.



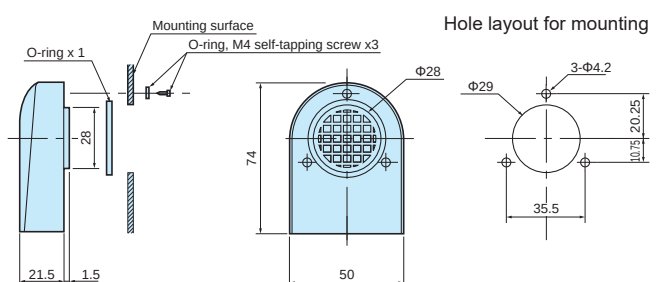
VF-1



Hole layout for mounting



VF-2



Hole layout for mounting

Technical Data

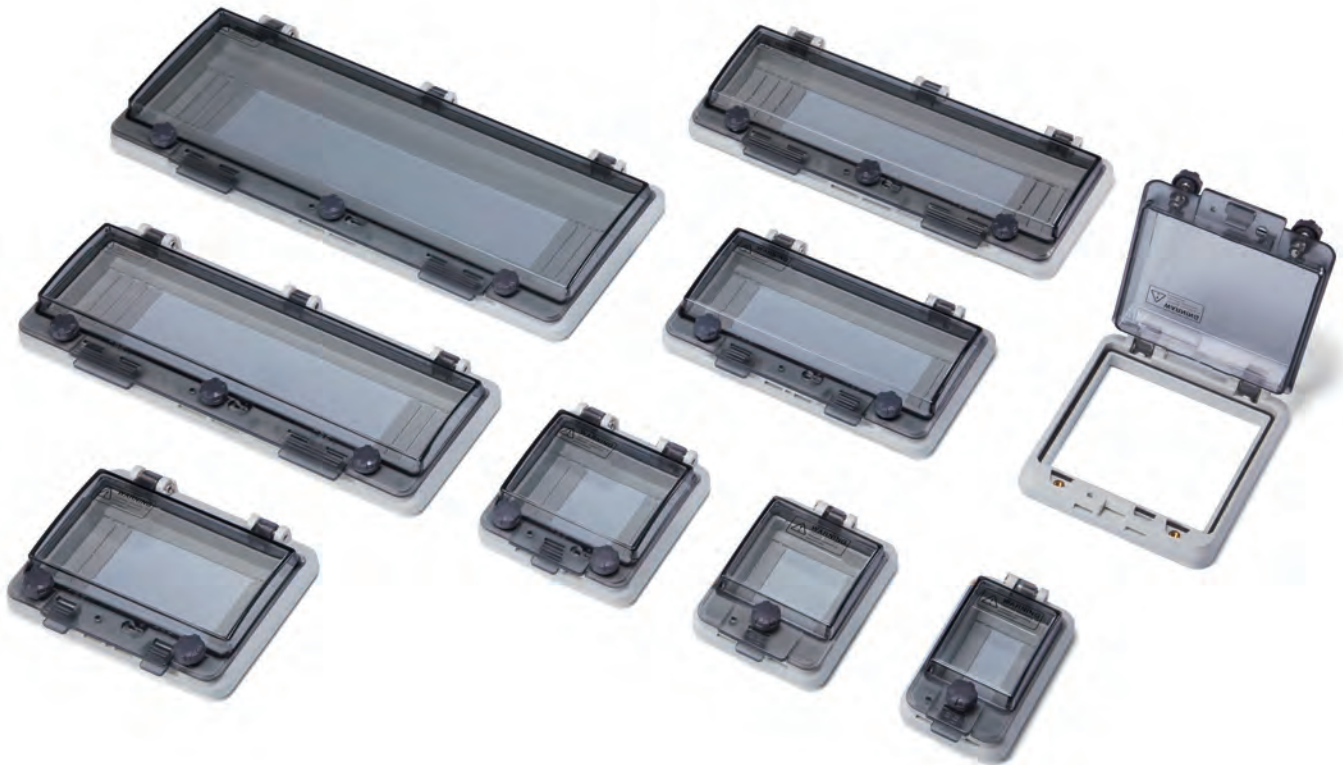
Protection class : VF-1 IP33
VF-2 IP24

Product no. / Details

Product no.	Material / Color
VF-1	Polyamide / White gray
VF-2	Polyamide / White gray

IW series

HINGED INSPECTION WINDOW



IP64 IP54

Technical Data

Protection class : IP64
 IW0412B }
 IW0413B } IP54 Category 2*
 IW0416B } (*Prevents dust ingress with no negative pressure inside)
 IW0416A }
 Operating temperature : -20°C ~ +75°C
 Recommended torque to install : 1.1N • m ~ 1.5N • m
 Required panel thickness to install : 2.0 ~ 6.0mm

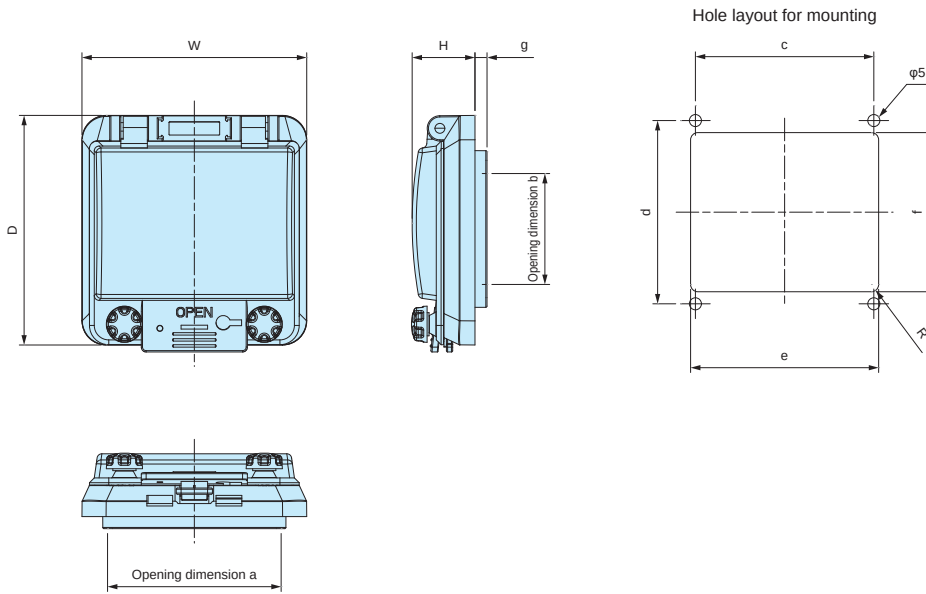
- IP64 water resistant see-through hinged inspection window.
- Smartly designed window for protection of switches and displays, etc.
Use in situations where component status, access and maintenance is necessary.
- Knurled thumb screws for easy securing.
- Be careful not to get fingers caught on the spring loaded self-closing cover.
- See TECHNICAL INFORMATION on our website for more information on the protection class IP rating.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Polycarbonate UL94V-2	Smoke gray
2	Base	1	PC + ABS UL94V-0	Light gray
3	Gasket	2	Polyurethane	Black
4	Knurled thumb screw	1 / 2 / 3	PC + ABS • Stainless steel	Black • Unfinished
—	Screw	4 / 6 / 8	Steel	Zinc plated

IW dimensions

■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

Product no.	W	D	H	a	b	c	d	e	f	g	Weight (g)
IW0402B	57.2	95.2	(26)	36	46	38	76	42	62	5	69
IW0403B	75.2	95.2	(26)	54	46	56	76	60	62	5	82
IW0404B	93.2	95.2	(26)	72	46	74	76	78	66	5	98
IW0405B	107.2	121.7	(31)	86.8	87.2	88	102	92	92	—	114
IW0406B	129.2	95.2	(26)	108	46	105	76	114	66	5	122.5
IW0408B	165.2	95.2	(26)	144	46	140	76	149	66	5	145
IW0412B	237.2	95.2	(26)	216	46	213	76	221	66	5	202
IW0413B	255.2	95.2	(26)	234	46	230	76	239	66	5	215
IW0416B	309.2	95.2	(26)	288	46	282	76	293	66	5	254
IW0416A	309.2	125.2	(26)	288	46	282	106	293	96	5	314

APPLICATION EXAMPLE

Circuit Breaker Cover



Connector Cover



Command Panel Cover

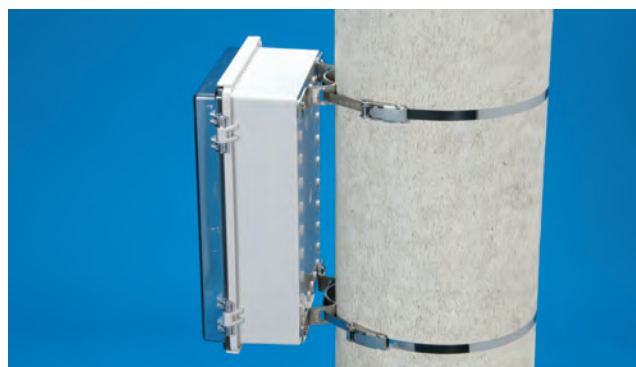


Switch Cover



SSK series

POLE MOUNTING BRACKET for BCAP • BCAR • BCPC • BCPK • BCPR



- Stainless steel pole mounting bracket for BCAP • BCAR • BCPC • BCPK • BCPR series.
- No hole milling is required for maintaining the IP rating of the boxes.
- SSK-P models come with plastic brackets.

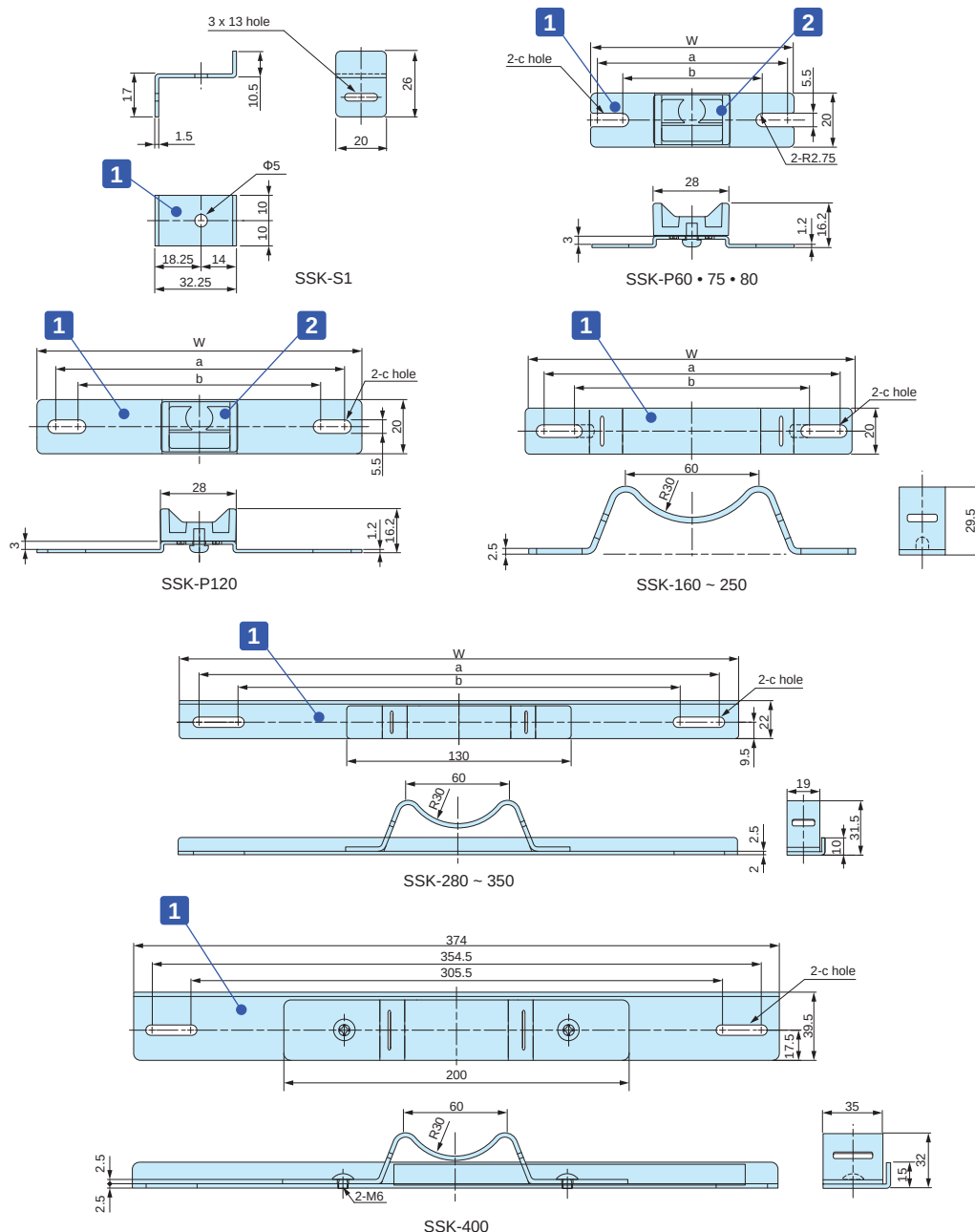
APPLICATION EXAMPLE

Weather Station Data Logger



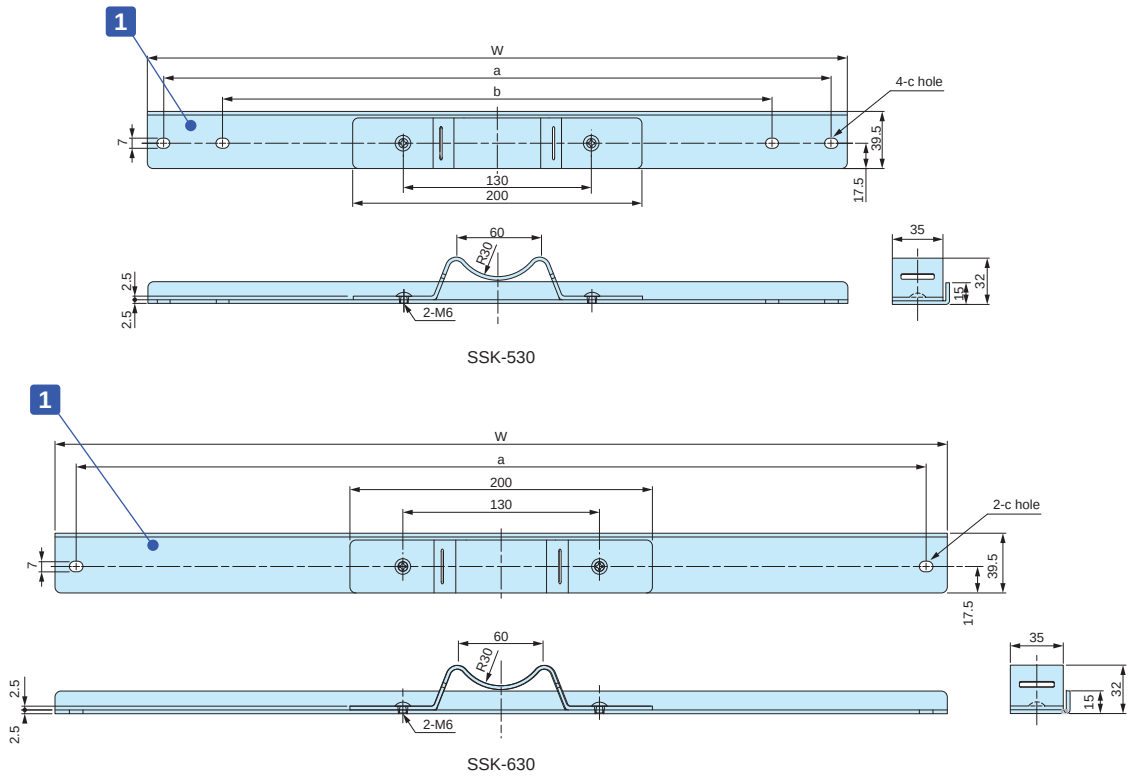
SSK dimensions

■ DXF/DWG/PDF drawings available on our website.



Water Level Detector





■ DXF/DWG/PDF drawings available on our website.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting bracket	2 / 4	Stainless steel SUS304	Barrel finish
2	Plastic bracket (SSK-P only)	2	ASA UL94HB	White gray
-	Screw	4	Stainless steel	Unfinished

Product no. / Details

Product no.	W	a	b	c	Suitable models BCAP • BCAR • BCPC • BCPK • BCPR	Belt to use with	Pack of
SSK-S1	—	—	—	—	0912, 1015, 1121, 1126, 1315, 1318, 1621, 1626, 1722, 1727, 2121	PKB10PM, 10P, PKB10S, SNB series	4
SSK-P60	60	54.5	47.5	5.5 x 9	0912	PKB10PM, 10P, PKB10S	2
SSK-P75	75	69.5	55.5	5.5 x 12.5	1015	PKB10PM, 10P, PKB10S	2
SSK-P80	80	74.5	64.5	5.5 x 10.5	1121, 1126	PKB10PM, 10P, PKB10S	2
SSK-P120	120	106.5	88.5	5.5 x 14.5	1315, 1318	PKB10PM, 10P, PKB10S	2
SSK-160	142	129.5	106.5	—	1515, 1621, 1626	PKB10PM, 10P, PKB10S, SNB series	2
SSK-170	152	142.3	101	—	1722, 1727	PKB10PM, 10P, PKB10S, SNB series	2
SSK-200	174	161.5	112.5	5.5 x 30	1928, 2030	PKB10PM, 10P, PKB10S, SNB series	2
SSK-210	192	180.5	131.5	5.5 x 30	2121	PKB10PM, 10P, PKB10S, SNB series	2
SSK-250	230	215.5	166.5	5.5 x 30	2535	PKB10PM, 10P, PKB10S, SNB series	2
SSK-280	260	244.5	195.5	5.5 x 30	2828, 2838	PKB10PM, 10P, PKB10S, SNB series	2
SSK-300	280	264.5	215.5	5.5 x 30	3030, 3040	PKB10PM, 10P, PKB10S, SNB series	2
SSK-350	324	302.5	253.5	5.5 x 30	3535, 3545	PKB10PM, 10P, PKB10S, SNB series	2
SSK-400	374	354.5	305.5	5.5 x 30	4050, 4060	PKB20S, SNB series	2
SSK-530	484	462	380	7 x 9	5060, 5070	PKB20S, SNB series	2
SSK-630	590	562	—	7 x 9	6080	PKB20S, SNB series	2



SNB series



PKB-10PM, 10P



PKB-10S, 20S

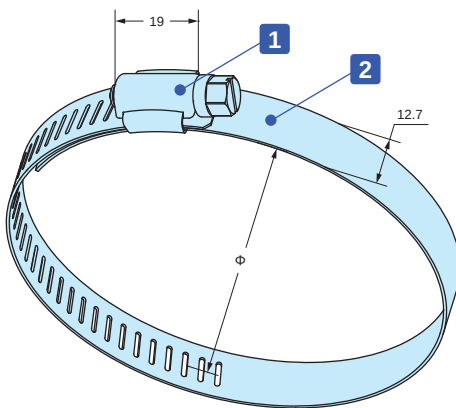
■ Pole mounting strap and belt, SNB and PKB series are sold separately. See page 207 ~ 208 for further details.

SNB series

STAINLESS STEEL POLE MOUNTING STRAP



SNB dimensions



- Corrosion resistant stainless steel (SUS304) belt clamp.
- It can be installed securely by tightening the screw.
- 8 mm nut driver (box driver) is recommended for tightening.
Flat-bladed screwdrivers can also be used.

Components

No.	Part name	Pcs	Material	Finish
1	Bracket	1	Stainless steel SUS304	Polished
2	Strap	1	Stainless steel SUS304	Polished

Product no. / Details

Product no.	Applicable diameter (Φ)	Strap width	Strap thickness	Recommended torque N · m	Weight (g)	Pack of
SNB 52- 76	52 ~ 76	12.7	0.6	0.7 ~ 1.0	27.5	1
SNB 72- 95	72 ~ 95	12.7	0.6	0.7 ~ 1.0	30	1
SNB 91-114	91 ~ 114	12.7	0.6	0.7 ~ 1.0	34.5	1
SNB105-127	105 ~ 127	12.7	0.6	0.7 ~ 1.0	37.5	1
SNB117-140	117 ~ 140	12.7	0.6	0.7 ~ 1.0	39.5	1
SNB130-153	130 ~ 153	12.7	0.6	0.7 ~ 1.0	41.5	1
SNB142-165	142 ~ 165	12.7	0.6	0.7 ~ 1.0	43.5	1
SNB155-178	155 ~ 178	12.7	0.6	0.7 ~ 1.0	46.5	1
SNB168-191	168 ~ 191	12.7	0.6	0.7 ~ 1.0	49	1
SNB181-204	181 ~ 204	12.7	0.6	0.7 ~ 1.0	51	1
SNB194-217	194 ~ 217	12.7	0.6	0.7 ~ 1.0	52.5	1
SNB207-230	207 ~ 230	12.7	0.6	0.7 ~ 1.0	57	1
SNB220-243	220 ~ 243	12.7	0.6	0.7 ~ 1.0	59.5	1
SNB233-256	233 ~ 256	12.7	0.6	0.7 ~ 1.0	62.5	1
SNB246-269	246 ~ 269	12.7	0.6	0.7 ~ 1.0	64	1
SNB259-282	259 ~ 282	12.7	0.6	0.7 ~ 1.0	67.5	1
SNB272-295	272 ~ 295	12.7	0.6	0.7 ~ 1.0	70	1
SNB285-308	285 ~ 308	12.7	0.6	0.7 ~ 1.0	71	1

■ Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

SNB Strap required

Suitable series	Suitable models						Required
SSK series	SSK-S1	SSK-160	SSK-170	SSK-200	SSK-210	SSK-250	2
	SSK-280	SSK-300	SSK-350	SSK-400	SSK-530		
WGMB series	WGMB-1W						1

PKB series

POLE MOUNTING BELT



PKB-10PM, 10P



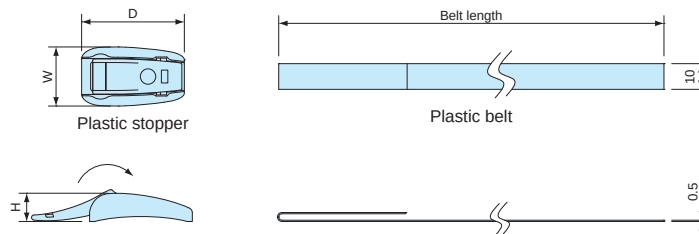
PKB-10S, 20S

- Pole mounting belt for attachment of enclosures with suitable pole mount brackets or construction onto poles.
- Designed for one time use only (not reusable).
- Strong stainless steel clamping type and easy installation plastic type are available.

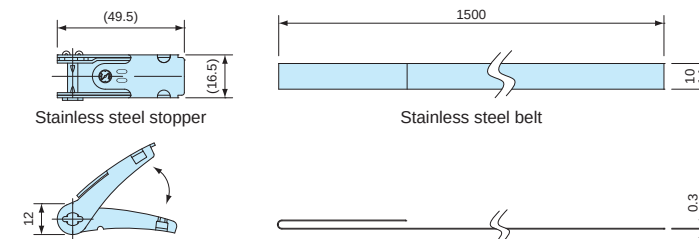
PKB dimensions

■ DXF/DWG/PDF drawings available on our website.

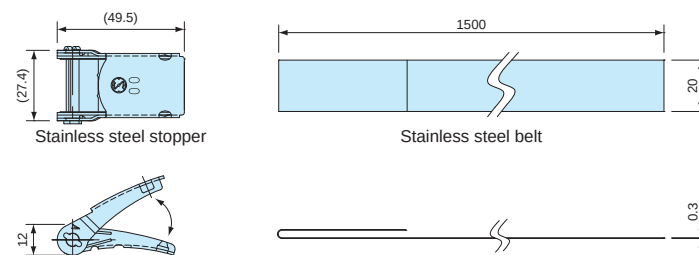
PKB-10PM, 10P



PKB-10S



PKB-20S



Components

Part name	Material	Color / Finish
Stopper	Stainless steel SUS304 • POM	Barrel finish • Black
Belt	Stainless steel SUS430 • PET	Bright annealed finish • Gray

Product no. / Details

Product no.	W	D	H	Belt length	Belt material	Tensile strength (horizontal)	Weight (g)	Pack of
PKB-10PM	23	24	11	500 mm	PET	0.8kN	14	2
PKB-10P	23	40	11	1,500 mm	PET	1.3kN	31.8	2
PKB-10S	—	—	—	1,500 mm	Stainless steel SUS304	1.4kN	101.6	2
PKB-20S	—	—	—	1,500 mm	Stainless steel SUS430	2.9kN	182.2	2

MXF • MXB • MXA • MX series

ALUMINIUM MOBILE ENCLOSURE

MXF • MXB • MXA • MX mobile enclosures are designed with a beautiful and elegant finish in mind. Having a rounded design, it fits comfortably in your hand, while giving off a simple yet stylish look. Suitable for use in a wide variety of industries, such as a small audio device, or as an amplifier unit, among others.

Selectable from 4 different types: an economical plastic end panel MX series, luxurious aluminium end panel MXA series, flanged end panel MXF series, and protective silicone band MXB series.

APPLICATION EXAMPLE

Fiber Optic LAN Converter



Desktop Audio Preamplifier with USB



Wireless Microphone System



reddot award
product design



Catchbox
Microphone



Catchbox
Receiver



Sound system
of your choice



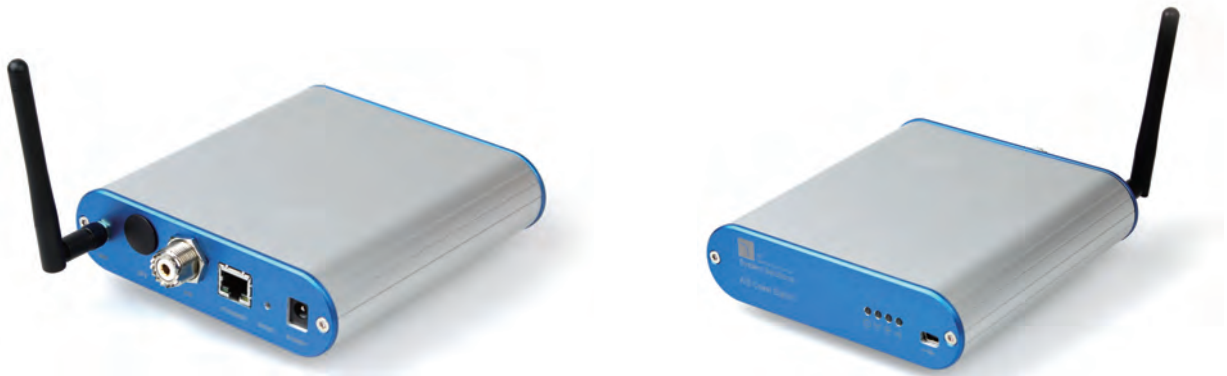
Ethernet Cellular Router



WiFi Access Point



AIS (Automatic Identification System) Signal Receiver



Data Transmitter for Automatic Number Plate Recognition (ANPR) System



IO-Link DEVICE



CAN & LIN Vehicle Communication Simulator / Monitor



Signal Checker / Tester



Audio Power Supply



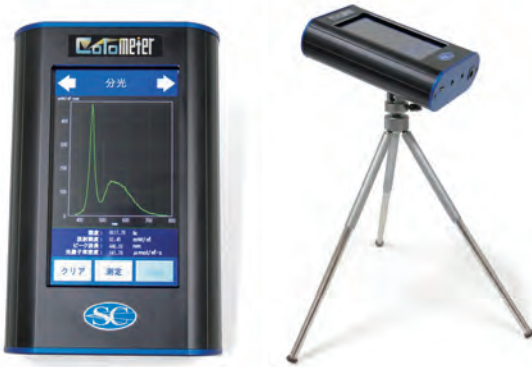
Model Railroad Controller



Portable Frequency Standard Device



Spectral Luminometer



RTD Sensor Tester



Mobile Moisture Meter



Full Color LED Tabletop Lighting Device

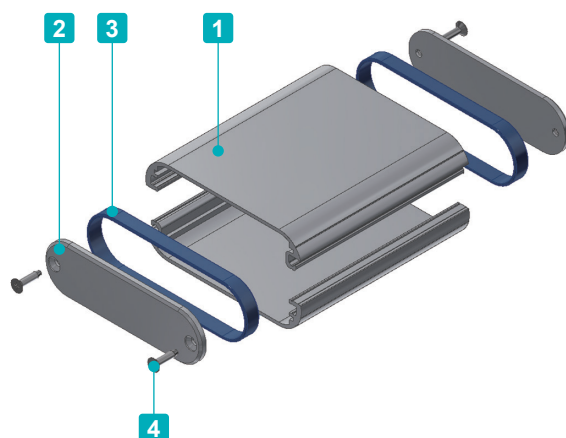


Active EMF Protection Device



Illumination Inverter



MXB series**ALUMINIUM MOBILE ENCLOSURE with SILICONE BAND**

- All aluminium mobile enclosure with anti-slip, impact resistant silicone band.
- 16 different color combinations and 24 different sizes available to choose from.
- Suitable to be used as digital audio amplifiers, communication devices, measurement tools, etc.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
2	Panel	2	Aluminium A1050P	Silver • Black / Anodized
3	Silicone band	2	Silicone	Black • Light gray • Navy • Cyan • Green • Yellow • Orange • Red
4	Self-tapping screw	4	Steel	Nickel plated • Black trivalent chromate

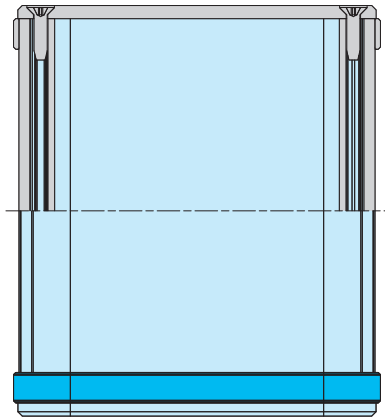
Color Type

B B Black / Black	B L Black / Light gray	B N Black / Navy	B C Black / Cyan	B G Black / Green	B Y Black / Yellow	B O Black / Orange	B R Black / Red
S B Silver / Black	S L Silver / Light gray	S N Silver / Navy	S C Silver / Cyan	S G Silver / Green	S Y Silver / Yellow	S O Silver / Orange	S R Silver / Red

■ Mix and match the MXA series with the SIB series silicone band for a wider variety of color combinations.

MXB dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



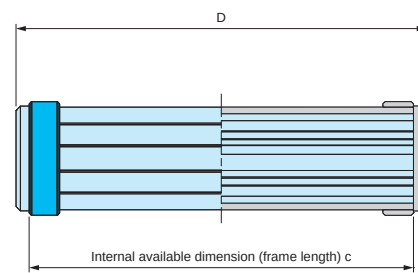
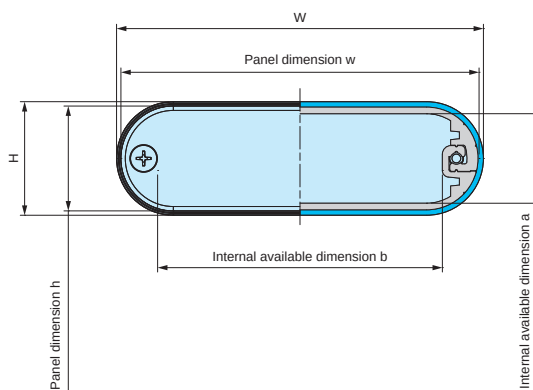
Screw Type

P	H
	
Plus head	Hexalobular head

P type: Includes 4x Nickel plated and 4x Black trivalent chromate screws.
 H type: Includes 4x screws that match the case color.

Please request / order by indicating
 the combination part number as below.

MXB 2 - 6 - 7 □ □ □
 Color code Screw P or H

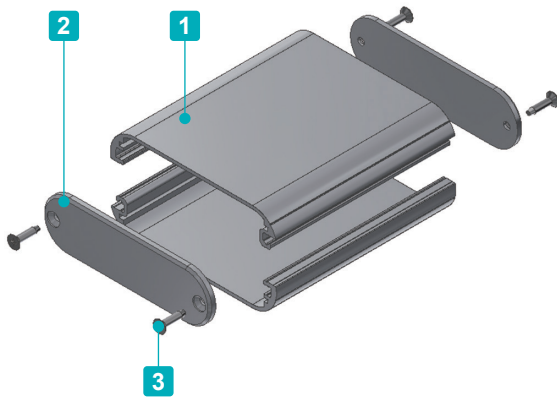


Product no. / Details

■ Please suffix color and screw code at the end of the product number.

Product no.	H	W	D	h	w	a	b	c	Weight (g)
MXB2- 4- 4 □ □	18	43.6	44	15	41	12.2	26.6	38	26
MXB2- 4- 7 □ □	18	43.6	74	15	41	12.2	26.6	68	41
MXB2- 4-10 □ □	18	43.6	104	15	41	12.2	26.6	98	51
MXB2- 6- 5 □ □	20.3	59.6	46	18	57	15.1	42.5	40	36
MXB2- 6- 7 □ □	20.3	59.6	71	18	57	15.1	42.5	65	51
MXB2- 6-10 □ □	20.3	59.6	96	18	57	15.1	42.5	90	66
MXB2- 7- 5 □ □	23.5	72.5	54	20	70	16.5	53.2	48	57
MXB2- 7- 8 □ □	23.5	72.5	84	20	70	16.5	53.2	78	82
MXB2- 7-11 □ □	23.5	72.5	114	20	70	16.5	53.2	108	112
MXB2- 8- 6 □ □	26.5	84.8	64	24	82	20.5	65.2	58	77
MXB2- 8- 9 □ □	26.5	84.8	94	24	82	20.5	65.2	88	107
MXB2- 8-12 □ □	26.5	84.8	124	24	82	20.5	65.2	118	137
MXB3-11- 7 □ □	33.5	113.9	72	30	110	26.5	93.2	66	120
MXB3-11-11 □ □	33.5	113.9	112	30	110	26.5	93.2	106	170
MXB3-11-16 □ □	33.5	113.9	162	30	110	26.5	93.2	156	240
MXB4- 7- 5 □ □	38.2	72	52	35	70	31.4	53.2	46	72
MXB4- 7- 8 □ □	38.2	72	82	35	70	31.4	53.2	76	102
MXB4- 7-11 □ □	38.2	72	112	35	70	31.4	53.2	106	137
MXB4-10- 7 □ □	44.7	97.9	70	40	95	36.4	78.2	64	125
MXB4-10-11 □ □	44.7	97.9	110	40	95	36.4	78.2	104	180
MXB4-10-14 □ □	44.7	97.9	140	40	95	36.4	78.2	134	225
MXB4-13- 9 □ □	38.5	134	90	35	130	31	113.2	84	187
MXB4-13-14 □ □	38.5	134	140	35	130	31	113.2	134	272
MXB4-13-20 □ □	38.5	134	200	35	130	31	113.2	194	377

■ H and W may experience slight variance from listed dimensions due to silicone band construct.



- All aluminium mobile enclosure with easy to hold rounded design.
- 14 different color combinations and 24 different sizes available to choose from.
- Suitable to be used as digital audio amplifiers, communication devices, measurement tools, etc.
- Grooves are built into the internal enclosure, allowing for easy sliding/insertion of PCB boards.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
2	Panel	2	Aluminium A1050P	Black • Silver • Cobalt • Green • Purple • Orange • Red / Anodized
3	Self-tapping screw	4	Steel	Nickel plated • Black trivalent chromate

Custom length available in 0.1mm intervals.



Color Type Please choose from the color combinations listed below

B B Black / Black	B S Black / Silver	B C Black / Cobalt	B G Black / Green	B P Black / Purple	B O Black / Orange	B R Black / Red
S B Silver / Black	S S Silver / Silver	S C Silver / Cobalt	S G Silver / Green	S P Silver / Purple	S O Silver / Orange	S R Silver / Red

MXA dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

Screw Type

P	H
	
Plus head	Hexalobular head

P type: Includes 4x Nickel plated and 4x Black trivalent chromate screws.
H type: Includes 4x screws that match the case color.

Please request / order by indicating the combination part number as below.

MXA 2 - 6 - 7 □ □ □
Color code Screw P or H

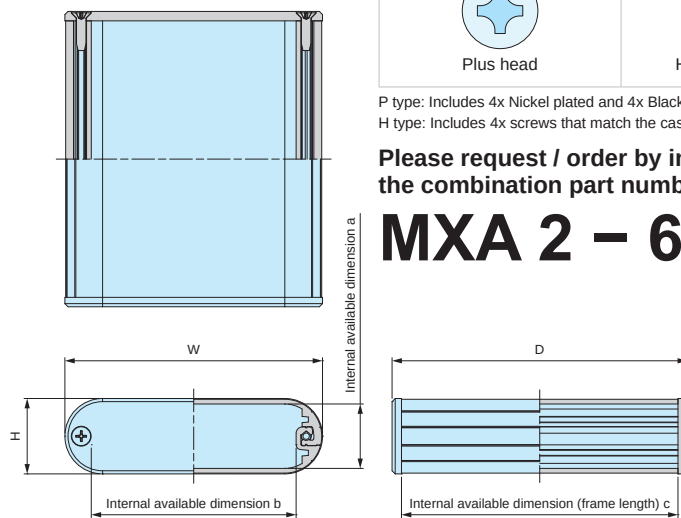
Accessories (Optional parts)



Silicone band SIB series
See page 90



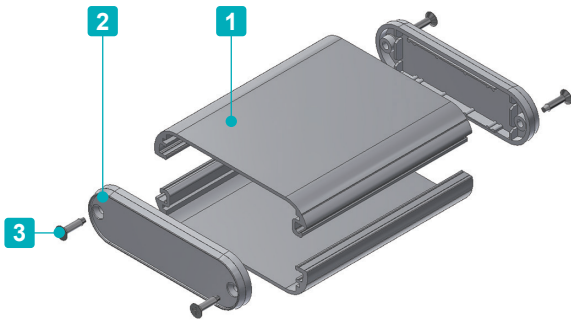
Embedded battery box BC series
See page 381 ~ 383



Product no. / Details

■ Please suffix color and screw code at the end of the product number.

Product no.	H	W	D	a	b	c	Weight (g)
MXA2- 4- 4 □ □	15	41	44	12.2	26.6	38	25
MXA2- 4- 7 □ □	15	41	74	12.2	26.6	68	40
MXA2- 4-10 □ □	15	41	104	12.2	26.6	98	50
MXA2- 6- 5 □ □	18	57	46	15.1	42.5	40	35
MXA2- 6- 7 □ □	18	57	71	15.1	42.5	65	50
MXA2- 6-10 □ □	18	57	96	15.1	42.5	90	65
MXA2- 7- 5 □ □	20	70	54	16.5	53.2	48	55
MXA2- 7- 8 □ □	20	70	84	16.5	53.2	78	80
MXA2- 7-11 □ □	20	70	114	16.5	53.2	108	110
MXA2- 8- 6 □ □	24	82	64	20.5	65.2	58	75
MXA2- 8- 9 □ □	24	82	94	20.5	65.2	88	105
MXA2- 8-12 □ □	24	82	124	20.5	65.2	118	135
MXA3-11- 7 □ □	30	110	72	26.5	93.2	66	115
MXA3-11-11 □ □	30	110	112	26.5	93.2	106	165
MXA3-11-16 □ □	30	110	162	26.5	93.2	156	235
MXA4- 7- 5 □ □	35	70	52	31.4	53.2	46	70
MXA4- 7- 8 □ □	35	70	82	31.4	53.2	76	100
MXA4- 7-11 □ □	35	70	112	31.4	53.2	106	135
MXA4-10- 7 □ □	40	95	70	36.4	78.2	64	120
MXA4-10-11 □ □	40	95	110	36.4	78.2	104	175
MXA4-10-14 □ □	40	95	140	36.4	78.2	134	220
MXA4-13- 9 □ □	35	130	90	31	113.2	84	180
MXA4-13-14 □ □	35	130	140	31	113.2	134	265
MXA4-13-20 □ □	35	130	200	31	113.2	194	370

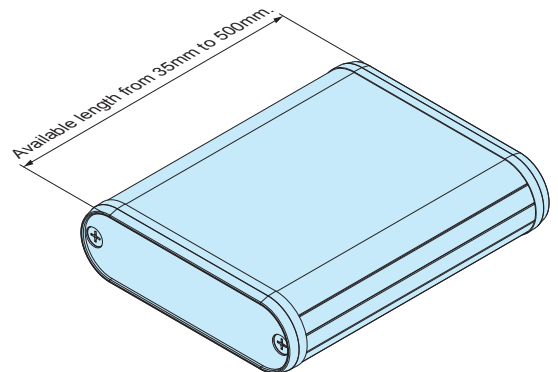


- Mobile enclosure with easy to hold rounded design.
- 12 different color combinations and 24 different sizes available to choose from.
- Frame is made from extruded aluminium material, while the panel is ABS plastic.
- Grooves are built into the internal enclosure, allowing for easy sliding/insertion of PCB boards.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
2	Panel	2	ABS UL94HB	Gray • Black / Unpainted Navy • Lime • Orange • Red / Painted
3	Self-tapping screw	4	Steel	Nickel plated • Black trivalent chromate

Custom length available in 0.1mm intervals.



Color Type Please choose from the color combinations listed below

※Black • Gray panels / Unpainted Other panels / Painted

[B][B] Black / Black	[B][G] Black / Gray	[B][N] Black / Navy	[B][L] Black / Lime	[B][O] Black / Orange	[B][R] Black / Red
[S][B] Silver / Black	[S][G] Silver / Gray	[S][N] Silver / Navy	[S][L] Silver / Lime	[S][O] Silver / Orange	[S][R] Silver / Red

MX dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

Screw Type

P	H
Plus head	Hexalobular head

P type: Includes 4x Nickel plated and 4x Black trivalent chromate screws.
H type: Includes 4x screws that match the case color.

Please request / order by indicating the combination part number as below.

MX 2 - 6 - 8 □ □ □
Color code Screw P or H

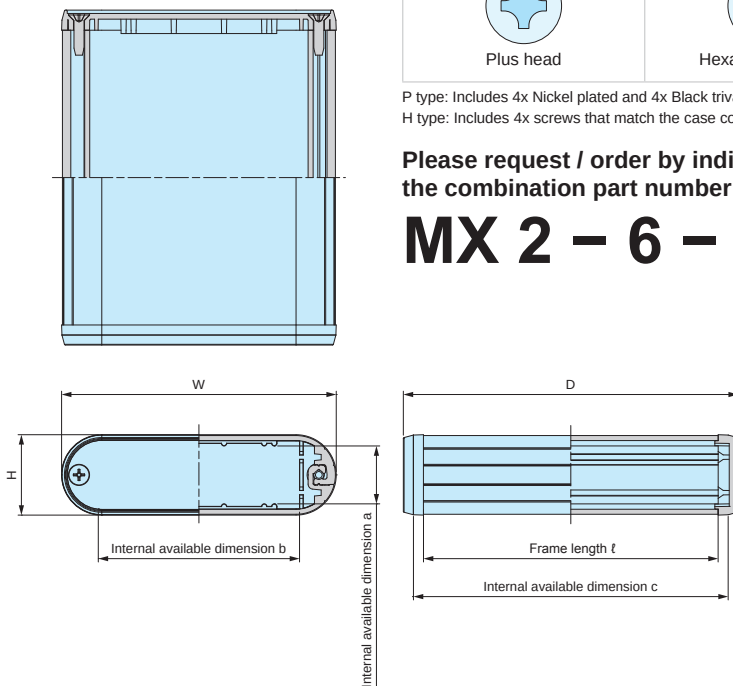
Accessories (Optional parts)



Silicone band SIB series
See page 90



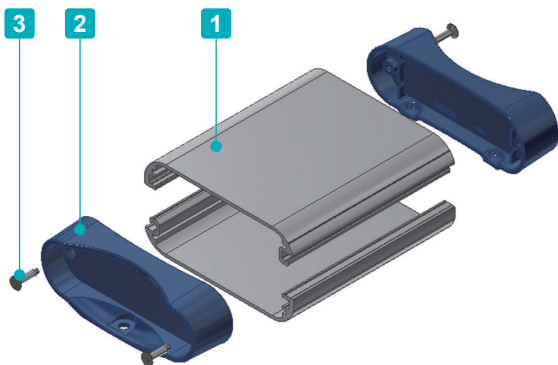
Embedded battery box BC series
See page 381 ~ 383



Product no. / Details

■ Please suffix color and screw code at the end of the product number.

Product no.	H	W	D	a	b	c	ℓ	Weight (g)
MX2- 4- 5 □ □	15	41	50	8.9	26.6	44.6	38	20
MX2- 4- 8 □ □	15	41	80	8.9	26.6	74.6	68	35
MX2- 4-11 □ □	15	41	110	8.9	26.6	104.6	98	50
MX2- 6- 5 □ □	18	57	50	12.3	42.5	45	40	35
MX2- 6- 8 □ □	18	57	75	12.3	42.5	70	65	50
MX2- 6-10 □ □	18	57	100	12.3	42.5	95	90	70
MX2- 7- 6 □ □	20	70	60	13.2	53.2	54.6	48	50
MX2- 7- 9 □ □	20	70	90	13.2	53.2	84.6	78	80
MX2- 7-12 □ □	20	70	120	13.2	53.2	114.6	108	105
MX2- 8- 7 □ □	24	82	70	17.2	65.2	64.6	58	75
MX2- 8-10 □ □	24	82	100	17.2	65.2	94.6	88	105
MX2- 8-13 □ □	24	82	130	17.2	65.2	124.6	118	140
MX3-11- 8 □ □	30	110	80	23.3	93.2	74.6	66	110
MX3-11-12 □ □	30	110	120	23.3	93.2	114.6	106	165
MX3-11-17 □ □	30	110	170	23.3	93.2	164.6	156	235
MX4- 7- 6 □ □	35	70	60	28.2	53.2	53	46	65
MX4- 7- 9 □ □	35	70	90	28.2	53.2	83	76	100
MX4- 7-12 □ □	35	70	120	28.2	53.2	113	106	130
MX4-10- 8 □ □	40	95	80	33.1	78.2	73	64	115
MX4-10-12 □ □	40	95	120	33.1	78.2	113	104	175
MX4-10-15 □ □	40	95	150	33.1	78.2	143	134	215
MX4-13-10 □ □	35	130	100	27.7	113.2	94.4	84	175
MX4-13-15 □ □	35	130	150	27.7	113.2	144.4	134	265
MX4-13-21 □ □	35	130	210	27.7	113.2	204.4	194	375

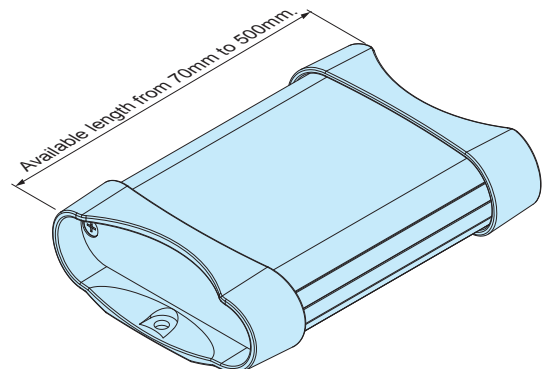


- Flanged network enclosure with easy to hold rounded design.
- 8 different color combinations and 12 different sizes available to choose from.
- Suitable to be used as transmitters, measurement tools, controllers, etc.
- Grooves are built into the internal enclosure, allowing for easy sliding/insertion of PCB boards.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
2	Flanged panel	2	ABS UL94HB	Black • Gray / Unpainted Navy • Lime / Painted
3	Self-tapping screw	4	Steel	Nickel plated • Black trivalent chromate

Custom length available in 0.1mm intervals.



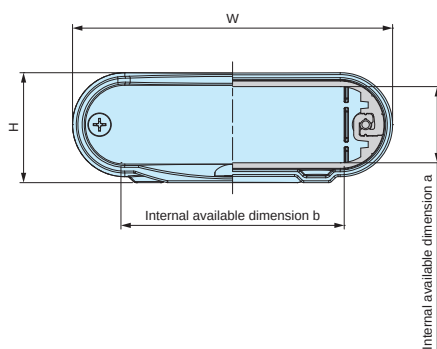
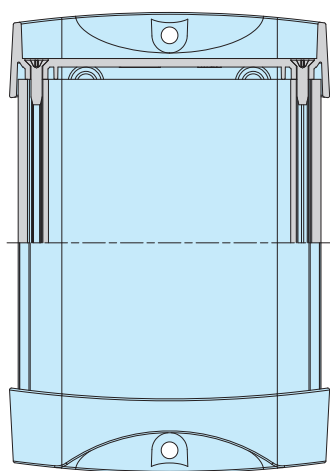
Color Type Please choose from the color combinations listed below

※Black and Gray panels are ABS color. Navy and Lime panels are painted.

[B][B] Black / Black	[B][G] Black / Gray	[B][N] Black / Navy	[B][L] Black / Lime
			
[S][B] Silver / Black	[S][G] Silver / Gray	[S][N] Silver / Navy	[S][L] Silver / Lime
			

MXF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



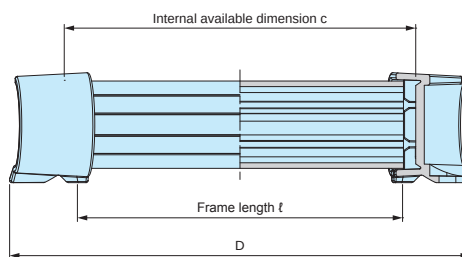
Screw Type

P	H
	
Plus head	Hexalobular head

P type: Includes 4x Nickel plated and 4x Black trivalent chromate screws.
H type: Includes 4x screws that match the case color.

Please request / order by indicating the combination part number as below.

MXF 2 - 6 - 7 □ □ □
Color code Screw P or H



Product no. / Details

■ Please suffix color and screw code at the end of the product number.

Product no.	H	W	D	a	b	c	ℓ	Weight (g)
MXF2- 6- 7 □ □	23.4	60.9	65	15.1	41.1	45	40	44
MXF2- 6- 9 □ □	23.4	60.9	90	15.1	41.1	70	65	59
MXF2- 6-12 □ □	23.4	60.9	115	15.1	41.1	95	90	75
MXF2- 8- 9 □ □	29.6	86.1	94	20.5	60.1	64.6	58	90
MXF2- 8-12 □ □	29.6	86.1	124	20.5	60.1	94.6	88	121
MXF2- 8-15 □ □	29.6	86.1	154	20.5	60.1	124.6	118	153
MXF3-11-10 □ □	35.6	114.2	104	26.5	87.3	74.6	66	130
MXF3-11-14 □ □	35.6	114.2	144	26.5	87.3	114.6	106	184
MXF3-11-19 □ □	35.6	114.2	194	26.5	87.3	164.6	156	251
MXF4-13-12 □ □	40.6	134.2	124	31	104.1	94.4	84	197
MXF4-13-17 □ □	40.6	134.2	174	31	104.1	144.4	134	284
MXF4-13-23 □ □	40.6	134.2	234	31	104.1	204.4	194	388

MULTI-FUNCTION EXTRUDED ALUMINIUM CASE

EXPT • EXP • EXPE • EXW • EXPF • EXEF • EXWF series

The following series, by utilizing similar extrusion frames, are available in 7 different types, such as IP65-rated, EMC-shielded versions, and more. 73 different sizes are available.

CORNER GUARD

EXP series Page 225 ~ 226



FLANGED

EXPF series Page 233 ~ 234



IP65 CORNER GUARD

EXW series Page 169 ~ 170



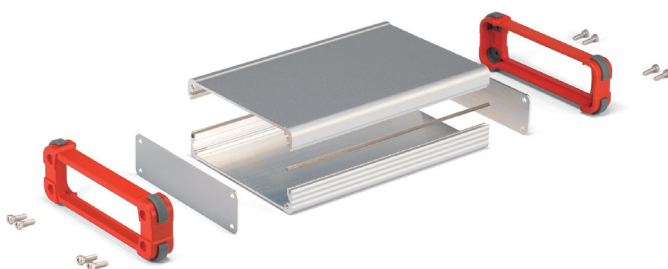
IP65 FLANGED

EXWF series Page 167 ~ 168



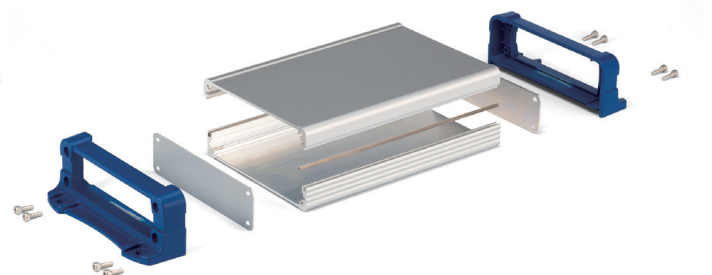
EMC CORNER GUARD

EXPE series Page 227 ~ 228



EMC FLANGED

EXEF series Page 235 ~ 236



WITH TILT LEG

EXPT series Page 229 ~ 230



Custom length available in 0.1mm intervals



16 COLOR COMBINATIONS

EXP series is available in 2 different body frame and 8 different exterior frame colors for a total of 16 different color types.



APPLICATION EXAMPLE

Measuring Instrument



Accessories (Optional parts)
Tilt leg TLW series
See page 239

Network / Communication Box



Controller



Ultrasonic Thickness Gauge



Radio Communication Tester



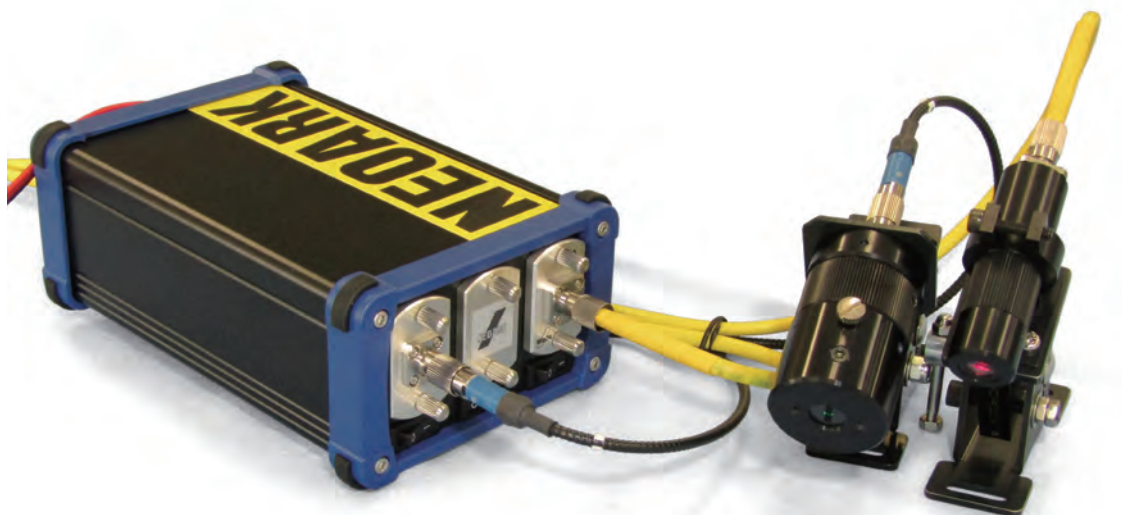
Tank Gauging System Interface Unit



Battery Monitoring System



Fiber Laser Projector



Desktop Load Cell Amplifier



ORAC Controller



Peristaltic DC Pump



Multi-Show Controller





- Corner guards are designed to be both aesthetically pleasing and impact resistant.
- Available in 73 different sizes and 16 different color combinations.
- Custom length is available.

Components

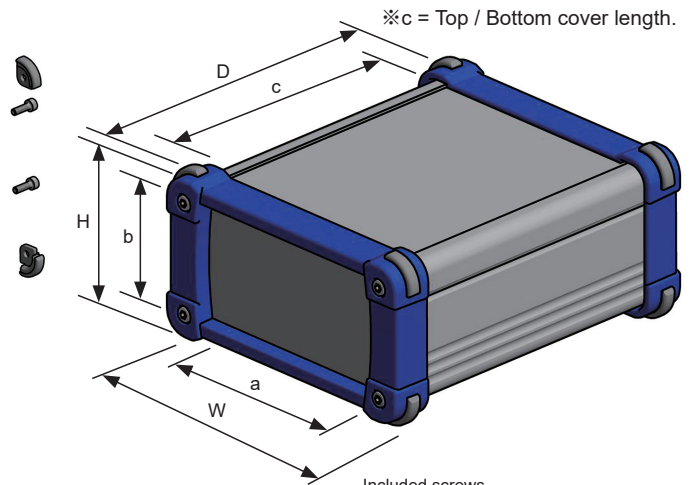
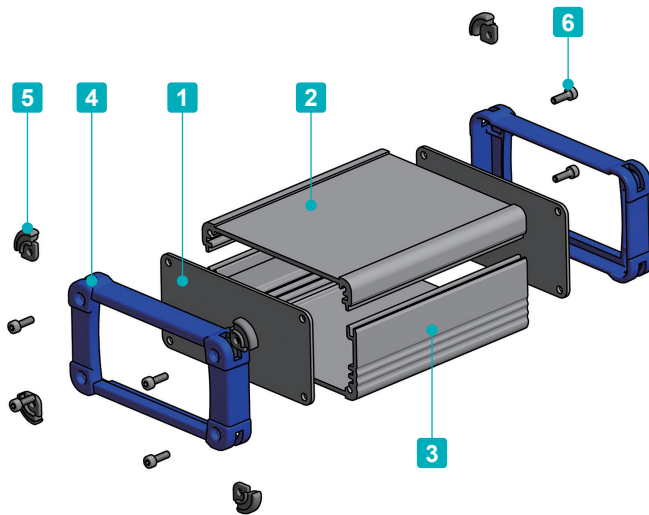
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver / Anodized • Black / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Exterior frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Indigo • Navy • Lime • Yellow • Orange • Red / Painted
5	Corner guard	8	Silicone	Dark gray • Black
6	Screw (Hexagonal)	8	Stainless steel	Unfinished

Color Type

Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][I] Silver / Indigo	[S][N] Silver / Navy
Color				
Code	[S][L] Silver / Lime	[S][Y] Silver / Yellow	[S][O] Silver / Orange	[S][R] Silver / Red
Color				
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][I] Black / Indigo	[B][N] Black / Navy
Color				
Code	[B][L] Black / Lime	[B][Y] Black / Yellow	[B][O] Black / Orange	[B][R] Black / Red
Color				

EXP dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws
 EXP7-□, 9-□ models : M2.5-8 x 8 pcs
 EXP12-□, 15-□ models : M3-10 x 8 pcs
 EXP20-□ models : M4-12 x 8 pcs
 EXP24-□, 30-□ models : M5-12 x 8 pcs
 ※Hexagonal wrench included

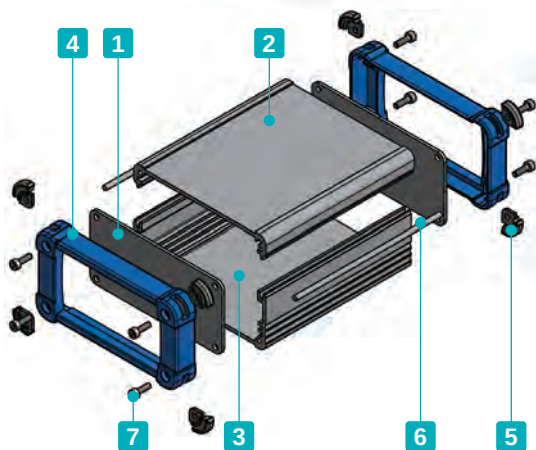
Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EXP 7- 3- 6□□	69	34	60	46	19.6	46
EXP 7- 3- 9□□	69	34	87	46	19.6	73
EXP 7- 3-11□□	69	34	110	46	19.6	96
EXP 7- 4- 6□□	69	44	60	46	29.6	46
EXP 7- 4- 9□□	69	44	87	46	29.6	73
EXP 7- 4-11□□	69	44	110	46	29.6	96
EXP 7- 6- 6□□	69	59	60	46	44.6	46
EXP 7- 6- 9□□	69	59	87	46	44.6	73
EXP 7- 6-11□□	69	59	110	46	44.6	96
EXP 9- 4- 7□□	89	39	70	66	24.6	56
EXP 9- 4-10□□	89	39	100	66	24.6	86
EXP 9- 4-13□□	89	39	130	66	24.6	116
EXP 9- 5- 7□□	89	49	70	66	34.6	56
EXP 9- 5-10□□	89	49	100	66	34.6	86
EXP 9- 5-13□□	89	49	130	66	34.6	116
EXP 9- 6- 7□□	89	64	70	66	49.6	56
EXP 9- 6-10□□	89	64	100	66	49.6	86
EXP 9- 6-13□□	89	64	130	66	49.6	116
EXP12- 4- 9□□	116	41	90	88	24	74
EXP12- 4-13□□	116	41	130	88	24	114
EXP12- 4-18□□	116	41	176	88	24	160
EXP12- 6- 9□□	116	56	90	88	39	74
EXP12- 6-13□□	116	56	130	88	39	114
EXP12- 6-18□□	116	56	176	88	39	160
EXP12- 7- 9□□	116	71	90	88	54	74
EXP12- 7-13□□	116	71	130	88	54	114
EXP12- 7-18□□	116	71	176	88	54	160
EXP15- 5-11□□	151	46	110	106.8	29	93
EXP15- 5-15□□	151	46	150	106.8	29	133
EXP15- 5-20□□	151	46	200	106.8	29	183
EXP15- 6-11□□	151	61	110	106.8	44	93
EXP15- 6-15□□	151	61	150	106.8	44	133
EXP15- 6-20□□	151	61	200	106.8	44	183
EXP15- 8-11□□	151	81	110	106.8	64	93
EXP15- 8-15□□	151	81	150	106.8	64	133
EXP15- 8-20□□	151	81	200	106.8	64	183
EXP15-10-11□□	151	101	110	106.8	84	93
EXP15-10-15□□	151	101	150	106.8	84	133
EXP15-10-20□□	151	101	200	106.8	84	183

■ Custom length is available

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EXP20- 6-14□□	199	56	140	131	35	120
EXP20- 6-19□□	199	56	192	131	35	172
EXP20- 6-25□□	199	56	245	131	35	225
EXP20- 6-30□□	199	56	300	131	35	280
EXP20- 7-14□□	199	74	140	131	53	120
EXP20- 7-19□□	199	74	192	131	53	172
EXP20- 7-25□□	199	74	245	131	53	225
EXP20- 7-30□□	199	74	300	131	53	280
EXP20- 9-14□□	199	94	140	131	73	120
EXP20- 9-19□□	199	94	192	131	73	172
EXP20- 9-25□□	199	94	245	131	73	225
EXP20- 9-30□□	199	94	300	131	73	280
EXP20-12-14□□	199	119	140	131	98	120
EXP20-12-19□□	199	119	192	131	98	172
EXP20-12-25□□	199	119	245	131	98	225
EXP20-12-30□□	199	119	300	131	98	280
EXP24- 6-17□□	244	64	170	176	43	147
EXP24- 6-23□□	244	64	230	176	43	207
EXP24- 6-29□□	244	64	290	176	43	267
EXP24- 6-35□□	244	64	350	176	43	327
EXP24- 9-17□□	244	89	170	176	68	147
EXP24- 9-23□□	244	89	230	176	68	207
EXP24- 9-29□□	244	89	290	176	68	267
EXP24- 9-35□□	244	89	350	176	68	327
EXP24-11-17□□	244	114	170	176	93	147
EXP24-11-23□□	244	114	230	176	93	207
EXP24-11-29□□	244	114	290	176	93	267
EXP24-11-35□□	244	114	350	176	93	327
EXP30- 9-25□□	300	90	250	230	68	228
EXP30- 9-32□□	300	90	320	230	68	298
EXP30- 9-40□□	300	90	400	230	68	378
EXP30-14-25□□	300	140	250	230	118	228
EXP30-14-32□□	300	140	320	230	118	298
EXP30-14-40□□	300	140	400	230	118	378

EMC
Shielding

- Corner guards are designed to be both aesthetically pleasing and impact resistant.
- Available in 73 different sizes and 8 different color combinations.
- EMC shielding is achieved by having the unfinished inner sides of the top/bottom covers and panels, as well as the fabric-over-foam gasket in contact with one another.

Included screws

EXPE7-□, 9-□ models : M2.5-8 x 8 pcs

EXPE12-□, 15-□ models : M3-10 x 8 pcs

EXPE20-□ models : M4-12 x 8 pcs

EXPE24-□, 30-□ models : M5-12 x 8 pcs

※ Hexagonal wrench included

Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Metallic silver / Painted (Conductive inside)
2	Top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Exterior frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Indigo • Navy • Lime • Yellow • Orange • Red / Painted
5	Corner guard	8	Silicone	Dark gray • Black
6	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
7	Screw (Hexagonal)	8	Stainless steel	Unfinished

Color Type

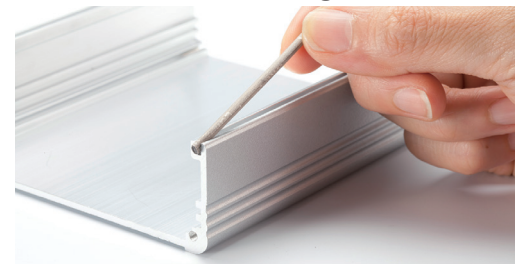
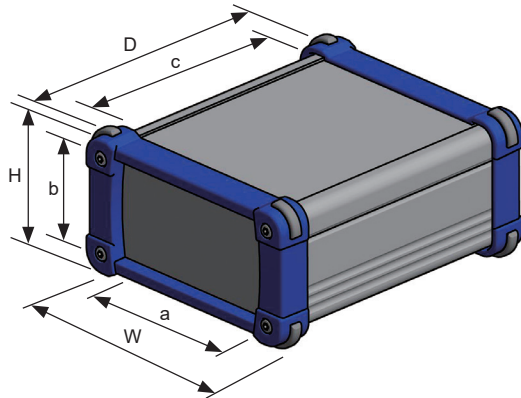
Code	[S] [B] Silver / Black	[S] [G] Silver / Gray	[S] [I] Silver / Indigo	[S] [N] Silver / Navy
Color				
Code	[S] [L] Silver / Lime	[S] [Y] Silver / Yellow	[S] [O] Silver / Orange	[S] [R] Silver / Red
Color				

EXPE dimensions

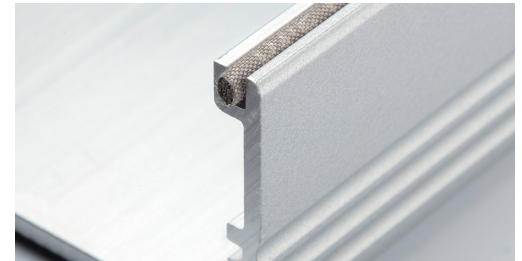
■ DXF/DWG/PDF/STP drawings available on our website.

How to install shield gaskets

※c = Top / Bottom cover length.



■ Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.



■ Ensure that a small portion of the fabric-over-foam gasket protrudes out in order to maintain connections with the end panels.

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EXPE 7- 3- 6□□	69	34	60	46	19.6	46
EXPE 7- 3- 9□□	69	34	87	46	19.6	73
EXPE 7- 3-11□□	69	34	110	46	19.6	96
EXPE 7- 4- 6□□	69	44	60	46	29.6	46
EXPE 7- 4- 9□□	69	44	87	46	29.6	73
EXPE 7- 4-11□□	69	44	110	46	29.6	96
EXPE 7- 6- 6□□	69	59	60	46	44.6	46
EXPE 7- 6- 9□□	69	59	87	46	44.6	73
EXPE 7- 6-11□□	69	59	110	46	44.6	96
EXPE 9- 4- 7□□	89	39	70	66	24.6	56
EXPE 9- 4-10□□	89	39	100	66	24.6	86
EXPE 9- 4-13□□	89	39	130	66	24.6	116
EXPE 9- 5- 7□□	89	49	70	66	34.6	56
EXPE 9- 5-10□□	89	49	100	66	34.6	86
EXPE 9- 5-13□□	89	49	130	66	34.6	116
EXPE 9- 6- 7□□	89	64	70	66	49.6	56
EXPE 9- 6-10□□	89	64	100	66	49.6	86
EXPE 9- 6-13□□	89	64	130	66	49.6	116
EXPE12- 4- 9□□	116	41	90	88	24	74
EXPE12- 4-13□□	116	41	130	88	24	114
EXPE12- 4-18□□	116	41	176	88	24	160
EXPE12- 6- 9□□	116	56	90	88	39	74
EXPE12- 6-13□□	116	56	130	88	39	114
EXPE12- 6-18□□	116	56	176	88	39	160
EXPE12- 7- 9□□	116	71	90	88	54	74
EXPE12- 7-13□□	116	71	130	88	54	114
EXPE12- 7-18□□	116	71	176	88	54	160
EXPE15- 5-11□□	151	46	110	106.8	29	93
EXPE15- 5-15□□	151	46	150	106.8	29	133
EXPE15- 5-20□□	151	46	200	106.8	29	183
EXPE15- 6-11□□	151	61	110	106.8	44	93
EXPE15- 6-15□□	151	61	150	106.8	44	133
EXPE15- 6-20□□	151	61	200	106.8	44	183
EXPE15- 8-11□□	151	81	110	106.8	64	93
EXPE15- 8-15□□	151	81	150	106.8	64	133
EXPE15- 8-20□□	151	81	200	106.8	64	183
EXPE15-10-11□□	151	101	110	106.8	84	93
EXPE15-10-15□□	151	101	150	106.8	84	133
EXPE15-10-20□□	151	101	200	106.8	84	183

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EXPE20- 6-14□□	199	56	140	131	35	120
EXPE20- 6-19□□	199	56	192	131	35	172
EXPE20- 6-25□□	199	56	245	131	35	225
EXPE20- 6-30□□	199	56	300	131	35	280
EXPE20- 7-14□□	199	74	140	131	53	120
EXPE20- 7-19□□	199	74	192	131	53	172
EXPE20- 7-25□□	199	74	245	131	53	225
EXPE20- 7-30□□	199	74	300	131	53	280
EXPE20- 9-14□□	199	94	140	131	73	120
EXPE20- 9-19□□	199	94	192	131	73	172
EXPE20- 9-25□□	199	94	245	131	73	225
EXPE20- 9-30□□	199	94	300	131	73	280
EXPE20-12-14□□	199	119	140	131	98	120
EXPE20-12-19□□	199	119	192	131	98	172
EXPE20-12-25□□	199	119	245	131	98	225
EXPE20-12-30□□	199	119	300	131	98	280
EXPE24- 6-17□□	244	64	170	176	43	147
EXPE24- 6-23□□	244	64	230	176	43	207
EXPE24- 6-29□□	244	64	290	176	43	267
EXPE24- 6-35□□	244	64	350	176	43	327
EXPE24- 9-17□□	244	89	170	176	68	147
EXPE24- 9-23□□	244	89	230	176	68	207
EXPE24- 9-29□□	244	89	290	176	68	267
EXPE24- 9-35□□	244	89	350	176	68	327
EXPE24-11-17□□	244	114	170	176	93	147
EXPE24-11-23□□	244	114	230	176	93	207
EXPE24-11-29□□	244	114	290	176	93	267
EXPE24-11-35□□	244	114	350	176	93	327
EXPE30- 9-25□□	300	90	250	230	68	228
EXPE30- 9-32□□	300	90	320	230	68	298
EXPE30- 9-40□□	300	90	400	230	68	378
EXPE30-14-25□□	300	140	250	230	118	228
EXPE30-14-32□□	300	140	320	230	118	298
EXPE30-14-40□□	300	140	400	230	118	378



Following models are suitable for Mini-ITX board size.

EXPE20-7-19□□

EXPE20-9-19□□

EXPE20-12-19□□



■ Aluminium enclosure with tilt leg for measuring instrument use. Available in 30 different sizes and 16 different color combinations.

Components

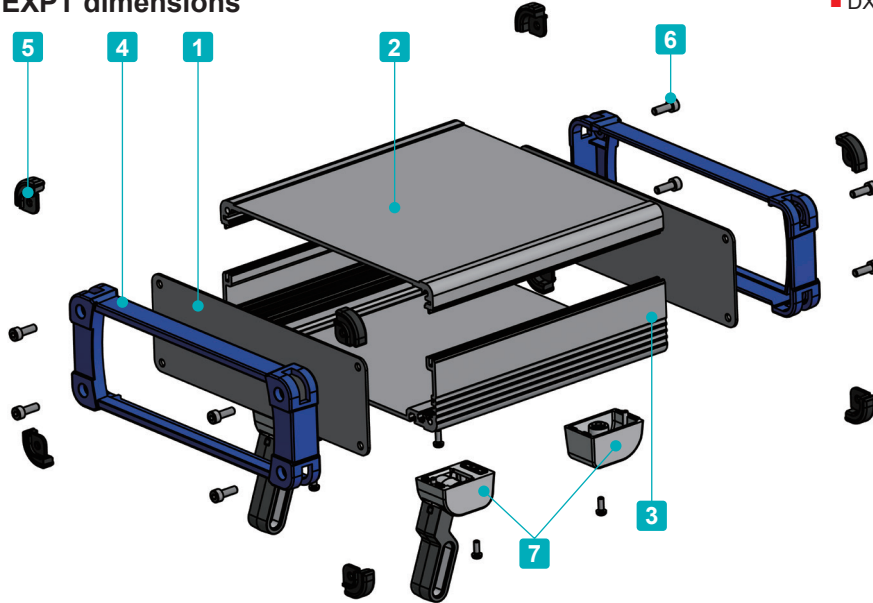
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver / Anodized • Black / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Exterior frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Indigo • Navy • Lime • Yellow • Orange • Red / Painted
5	Corner guard	8	Silicone	Dark gray • Black
6	Screw (Hexagonal)	8	Stainless steel	Unfinished
7	Tilt leg	1 set	PC+ABS UL94V-0, TPE	Black & Black • Navy & Gray • Light gray & Gray

Color Type

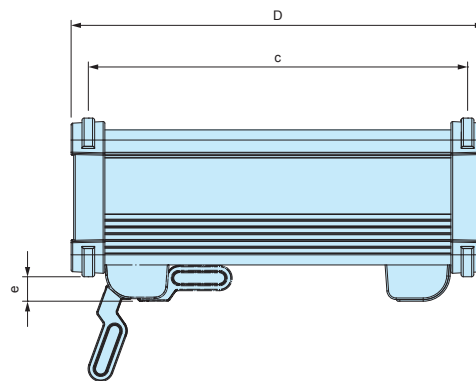
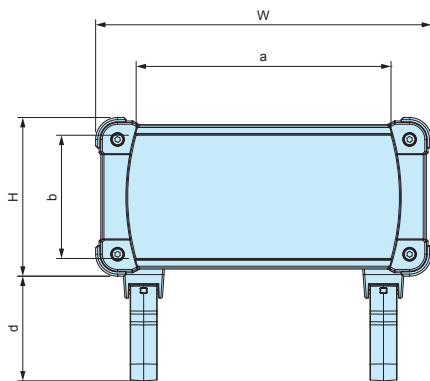
Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][I] Silver / Indigo	[S][N] Silver / Navy
Color				
Code	[S][L] Silver / Lime	[S][Y] Silver / Yellow	[S][O] Silver / Orange	[S][R] Silver / Red
Color				
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][I] Black / Indigo	[B][N] Black / Navy
Color				
Code	[B][L] Black / Lime	[B][Y] Black / Yellow	[B][O] Black / Orange	[B][R] Black / Red
Color				

EXPT dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws
 EXPT20-□ models : M4-12 x 8 pcs
 EXPT24-□, 30-□ models : M5-12 x 8 pcs
 ※Hexagonal wrench included



※c = Top / Bottom cover length.

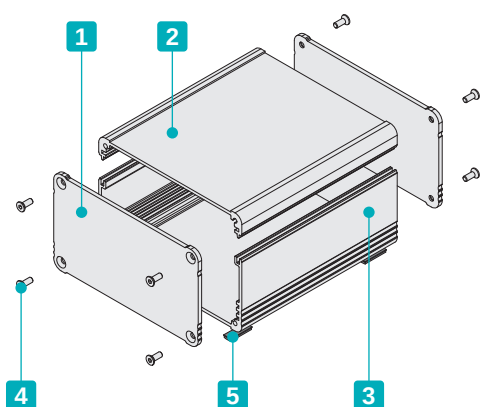
Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions				
	W	H	D	a	b	c	d	e
EXPT20- 6-19□□	199	56	192	131	35	172	62	14.5
EXPT20- 6-25□□	199	56	245	131	35	225	62	14.5
EXPT20- 6-30□□	199	56	300	131	35	280	62	14.5
EXPT20- 7-19□□	199	74	192	131	53	172	62	14.5
EXPT20- 7-25□□	199	74	245	131	53	225	62	14.5
EXPT20- 7-30□□	199	74	300	131	53	280	62	14.5
EXPT20- 9-19□□	199	94	192	131	73	172	62	14.5
EXPT20- 9-25□□	199	94	245	131	73	225	62	14.5
EXPT20- 9-30□□	199	94	300	131	73	280	62	14.5
EXPT20-12-19□□	199	119	192	131	98	172	62	14.5
EXPT20-12-25□□	199	119	245	131	98	225	62	14.5
EXPT20-12-30□□	199	119	300	131	98	280	62	14.5
EXPT24- 6-17□□	244	64	170	176	43	147	62	14.5
EXPT24- 6-23□□	244	64	230	176	43	207	62	14.5
EXPT24- 6-29□□	244	64	290	176	43	267	62	14.5
EXPT24- 6-35□□	244	64	350	176	43	327	62	14.5
EXPT24- 9-17□□	244	89	170	176	68	147	62	14.5
EXPT24- 9-23□□	244	89	230	176	68	207	62	14.5
EXPT24- 9-29□□	244	89	290	176	68	267	62	14.5
EXPT24- 9-35□□	244	89	350	176	68	327	62	14.5
EXPT24-11-17□□	244	114	170	176	93	147	62	14.5
EXPT24-11-23□□	244	114	230	176	93	207	62	14.5
EXPT24-11-29□□	244	114	290	176	93	267	62	14.5
EXPT24-11-35□□	244	114	350	176	93	327	62	14.5
EXPT30- 9-25□□	300	90	250	230	68	228	61.5	14
EXPT30- 9-32□□	300	90	320	230	68	298	61.5	14
EXPT30- 9-40□□	300	90	400	230	68	378	61.5	14
EXPT30-14-25□□	300	140	250	230	118	228	61.5	14
EXPT30-14-32□□	300	140	320	230	118	298	61.5	14
EXPT30-14-40□□	300	140	400	230	118	378	61.5	14



- Simple yet beautifully designed aluminium extrusion enclosure.
- Selectable in 4 different color combinations and 73 different sizes.
- High-end finish is achieved by precision CNC of the end panels.
- Custom length is available.



Components

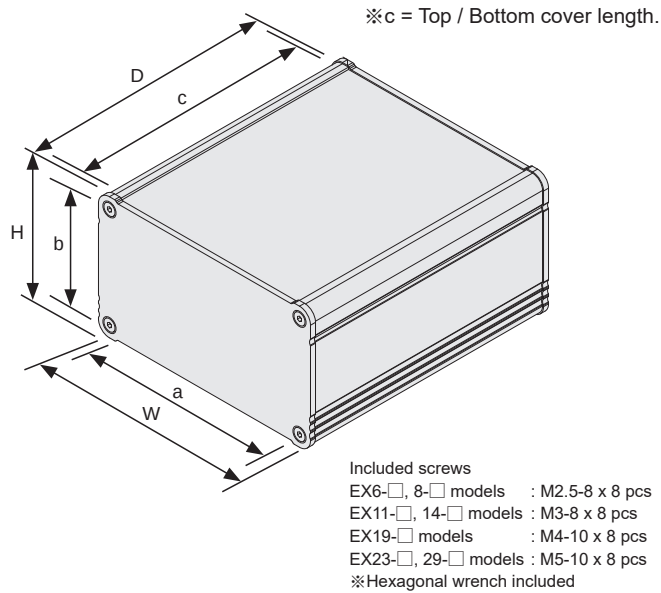
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1050P	Silver • Black / Anodized
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Screw (Hexagonal)	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ Rubber feet material : Polyurethane : EX6-□ ~ 19-□ models • Synthetic rubber : EX23-□ ~ 29-□ models.

Color Type

Code	[S][S] Silver / Silver	[S][B] Silver / Black	[B][S] Black / Silver	[B][B] Black / Black
Color				

EX dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

Accessories (Optional parts)



Wall mounting bracket EF series
 See page 240

■ Please suffix color code at the end of the product number.

Product no. / Details

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EX 6- 3- 5□□	60.6	25.6	50	46	19.6	46
EX 6- 3- 8□□	60.6	25.6	77	46	19.6	73
EX 6- 3-10□□	60.6	25.6	100	46	19.6	96
EX 6- 4- 5□□	60.6	35.6	50	46	29.6	46
EX 6- 4- 8□□	60.6	35.6	77	46	29.6	73
EX 6- 4-10□□	60.6	35.6	100	46	29.6	96
EX 6- 5- 5□□	60.6	50.6	50	46	44.6	46
EX 6- 5- 8□□	60.6	50.6	77	46	44.6	73
EX 6- 5-10□□	60.6	50.6	100	46	44.6	96
EX 8- 3- 6□□	80.6	30.6	60	66	24.6	56
EX 8- 3- 9□□	80.6	30.6	90	66	24.6	86
EX 8- 3-12□□	80.6	30.6	120	66	24.6	116
EX 8- 4- 6□□	80.6	40.6	60	66	34.6	56
EX 8- 4- 9□□	80.6	40.6	90	66	34.6	86
EX 8- 4-12□□	80.6	40.6	120	66	34.6	116
EX 8- 6- 6□□	80.6	55.6	60	66	49.6	56
EX 8- 6- 9□□	80.6	55.6	90	66	49.6	86
EX 8- 6-12□□	80.6	55.6	120	66	49.6	116
EX11- 3- 8□□	106	31	79	88	24	74
EX11- 3-12□□	106	31	119	88	24	114
EX11- 3-16□□	106	31	165	88	24	160
EX11- 5- 8□□	106	46	79	88	39	74
EX11- 5-12□□	106	46	119	88	39	114
EX11- 5-16□□	106	46	165	88	39	160
EX11- 6- 8□□	106	61	79	88	54	74
EX11- 6-12□□	106	61	119	88	54	114
EX11- 6-16□□	106	61	165	88	54	160
EX14- 4-10□□	141	36	98	106.8	29	93
EX14- 4-14□□	141	36	138	106.8	29	133
EX14- 4-19□□	141	36	188	106.8	29	183
EX14- 5-10□□	141	51	98	106.8	44	93
EX14- 5-14□□	141	51	138	106.8	44	133
EX14- 5-19□□	141	51	188	106.8	44	183
EX14- 7-10□□	141	71	98	106.8	64	93
EX14- 7-14□□	141	71	138	106.8	64	133
EX14- 7-19□□	141	71	188	106.8	64	183
EX14- 9-10□□	141	91	98	106.8	84	93
EX14- 9-14□□	141	91	138	106.8	84	133
EX14- 9-19□□	141	91	188	106.8	84	183

■ Custom length is available

Product no.	External dimensions			Internal dimensions		
	W	H	D	a	b	c
EX19- 4-13□□	186.5	43.5	125	131	35	120
EX19- 4-18□□	186.5	43.5	177	131	35	172
EX19- 4-23□□	186.5	43.5	230	131	35	225
EX19- 4-29□□	186.5	43.5	285	131	35	280
EX19- 6-13□□	186.5	61.5	125	131	53	120
EX19- 6-18□□	186.5	61.5	177	131	53	172
EX19- 6-23□□	186.5	61.5	230	131	53	225
EX19- 6-29□□	186.5	61.5	285	131	53	280
EX19- 8-13□□	186.5	81.5	125	131	73	120
EX19- 8-18□□	186.5	81.5	177	131	73	172
EX19- 8-23□□	186.5	81.5	230	131	73	225
EX19- 8-29□□	186.5	81.5	285	131	73	280
EX19-11-13□□	186.5	106.5	125	131	98	120
EX19-11-18□□	186.5	106.5	177	131	98	172
EX19-11-23□□	186.5	106.5	230	131	98	225
EX19-11-29□□	186.5	106.5	285	131	98	280
EX23- 5-15□□	232	52	153	176	43	147
EX23- 5-21□□	232	52	213	176	43	207
EX23- 5-27□□	232	52	273	176	43	267
EX23- 5-33□□	232	52	333	176	43	327
EX23- 8-15□□	232	77	153	176	68	147
EX23- 8-21□□	232	77	213	176	68	207
EX23- 8-27□□	232	77	273	176	68	267
EX23- 8-33□□	232	77	333	176	68	327
EX23-10-15□□	232	102	153	176	93	147
EX23-10-21□□	232	102	213	176	93	207
EX23-10-27□□	232	102	273	176	93	267
EX23-10-33□□	232	102	333	176	93	327
EX29- 8-23□□	287.5	77.5	234	230	68	228
EX29- 8-30□□	287.5	77.5	304	230	68	298
EX29- 8-38□□	287.5	77.5	384	230	68	378
EX29-13-23□□	287.5	127.5	234	230	118	228
EX29-13-30□□	287.5	127.5	304	230	118	298
EX29-13-38□□	287.5	127.5	384	230	118	378



- Equipped with flanged frame for easy wall mounting.
- Available in 67 different sizes and 6 different color combinations by 2 body frame and 3 end panel colors.
- Custom length is available.

Included screws
 EXPF 7-□, 9-□ models : M2.5-8 x 8 pcs
 EXPF11-□, 15-□ models : M3-10 x 8 pcs
 EXPF20-□ models : M4-12 x 8 pcs
 EXPF24-□ models : M5-12 x 8 pcs
 ※Hexagonal wrench included

Components

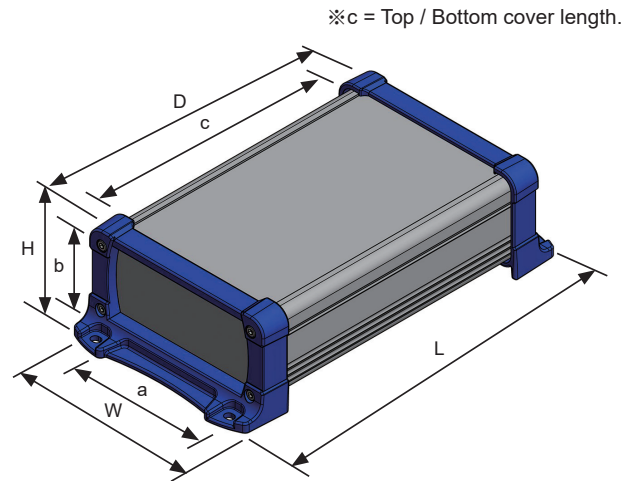
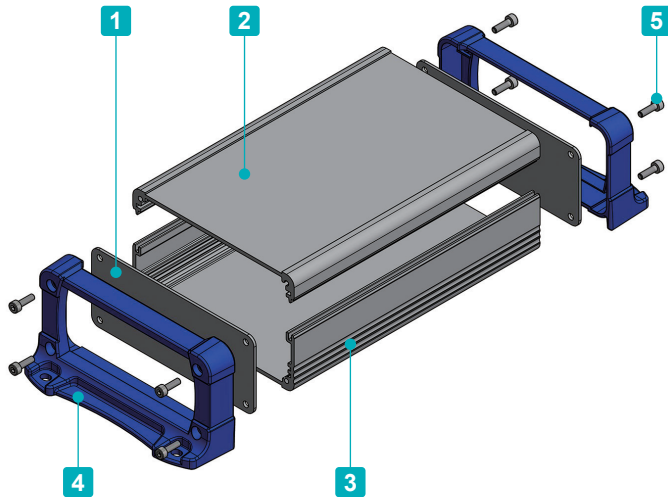
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver / Anodized • Black / Painted
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Flanged frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Navy / Painted
5	Screw (Hexagonal)	8	Stainless steel	Unfinished

Color Type

Code	[S][B] Silver / Black	[S][G] Silver / Gray	[S][N] Silver / Navy
Color			
Code	[B][B] Black / Black	[B][G] Black / Gray	[B][N] Black / Navy
Color			

EXPF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions				Internal dimensions		
	W	H	D	L	a	b	c
EXPF 7- 3- 6□□	66	34	60	84	46	19.6	46
EXPF 7- 3- 9□□	66	34	87	111	46	19.6	73
EXPF 7- 3-11□□	66	34	110	134	46	19.6	96
EXPF 7- 4- 6□□	66	44	60	84	46	29.6	46
EXPF 7- 4- 9□□	66	44	87	111	46	29.6	73
EXPF 7- 4-11□□	66	44	110	134	46	29.6	96
EXPF 7- 6- 6□□	66	59	60	84	46	44.6	46
EXPF 7- 6- 9□□	66	59	87	111	46	44.6	73
EXPF 7- 6-11□□	66	59	110	134	46	44.6	96
EXPF 9- 4- 7□□	86	39	70	95.8	66	24.6	56
EXPF 9- 4-10□□	86	39	100	125.8	66	24.6	86
EXPF 9- 4-13□□	86	39	130	155.8	66	24.6	116
EXPF 9- 5- 7□□	86	49	70	95.8	66	34.6	56
EXPF 9- 5-10□□	86	49	100	125.8	66	34.6	86
EXPF 9- 5-13□□	86	49	130	155.8	66	34.6	116
EXPF 9- 6- 7□□	86	64	70	95.8	66	49.6	56
EXPF 9- 6-10□□	86	64	100	125.8	66	49.6	86
EXPF 9- 6-13□□	86	64	130	155.8	66	49.6	116
EXPF11- 4- 9□□	113	41.5	90	121.8	88	24	74
EXPF11- 4-13□□	113	41.5	130	161.8	88	24	114
EXPF11- 4-18□□	113	41.5	176	207.8	88	24	160
EXPF11- 6- 9□□	113	56.5	90	121.8	88	39	74
EXPF11- 6-13□□	113	56.5	130	161.8	88	39	114
EXPF11- 6-18□□	113	56.5	176	207.8	88	39	160
EXPF11- 7- 9□□	113	71.5	90	121.8	88	54	74
EXPF11- 7-13□□	113	71.5	130	161.8	88	54	114
EXPF11- 7-18□□	113	71.5	176	207.8	88	54	160
EXPF15- 5-11□□	148	47	110	149.2	106.8	29	93
EXPF15- 5-15□□	148	47	150	189.2	106.8	29	133
EXPF15- 5-20□□	148	47	200	239.2	106.8	29	183
EXPF15- 6-11□□	148	62	110	149.2	106.8	44	93
EXPF15- 6-15□□	148	62	150	189.2	106.8	44	133
EXPF15- 6-20□□	148	62	200	239.2	106.8	44	183
EXPF15- 8-11□□	148	82	110	149.2	106.8	64	93
EXPF15- 8-15□□	148	82	150	189.2	106.8	64	133
EXPF15- 8-20□□	148	82	200	239.2	106.8	64	183
EXPF15-10-11□□	148	102	110	149.2	106.8	84	93
EXPF15-10-15□□	148	102	150	189.2	106.8	84	133
EXPF15-10-20□□	148	102	200	239.2	106.8	84	183

Product no.	External dimensions				Internal dimensions		
	W	H	D	L	a	b	c
EXPF20- 6-14□□	195	57	140	188.6	131	35	120
EXPF20- 6-19□□	195	57	192	240.6	131	35	172
EXPF20- 6-25□□	195	57	245	293.6	131	35	225
EXPF20- 6-30□□	195	57	300	348.6	131	35	280
EXPF20- 8-14□□	195	75	140	188.6	131	53	120
EXPF20- 8-19□□	195	75	192	240.6	131	53	172
EXPF20- 8-25□□	195	75	245	293.6	131	53	225
EXPF20- 8-30□□	195	75	300	348.6	131	53	280
EXPF20-10-14□□	195	95	140	188.6	131	73	120
EXPF20-10-19□□	195	95	192	240.6	131	73	172
EXPF20-10-25□□	195	95	245	293.6	131	73	225
EXPF20-10-30□□	195	95	300	348.6	131	73	280
EXPF20-12-14□□	195	120	140	188.6	131	98	120
EXPF20-12-19□□	195	120	192	240.6	131	98	172
EXPF20-12-25□□	195	120	245	293.6	131	98	225
EXPF20-12-30□□	195	120	300	348.6	131	98	280
EXPF24- 7-17□□	240	65	170	218.6	176	43	147
EXPF24- 7-23□□	240	65	230	278.6	176	43	207
EXPF24- 7-29□□	240	65	290	338.6	176	43	267
EXPF24- 7-35□□	240	65	350	398.6	176	43	327
EXPF24- 9-17□□	240	90	170	218.6	176	68	147
EXPF24- 9-23□□	240	90	230	278.6	176	68	207
EXPF24- 9-29□□	240	90	290	338.6	176	68	267
EXPF24- 9-35□□	240	90	350	398.6	176	68	327
EXPF24-12-17□□	240	115	170	218.6	176	93	147
EXPF24-12-23□□	240	115	230	278.6	176	93	207
EXPF24-12-29□□	240	115	290	338.6	176	93	267
EXPF24-12-35□□	240	115	350	398.6	176	93	327

■ Custom length is available.

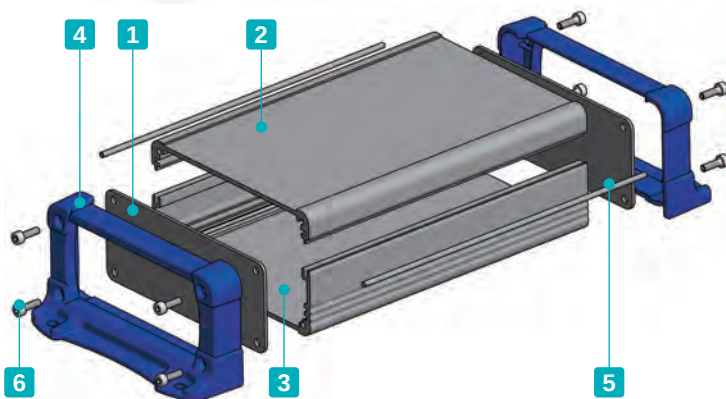


Following models are suitable for Mini-ITX board size.

EXPF20-8-19□□

EXPF20-10-19□□

EXPF20-12-19□□

EMC
Shielding

- EMC shielding is achieved by having the unfinished inner sides of the top/bottom covers and panels, as well as the fabric-over-foam gasket in contact with one another.
- Equipped with flanged frame for easy wall mounting.
- Available in 67 different sizes and 3 different color combinations.

Included screws

EXEF7-□, 9-□ models : M2.5-8 x 8 pcs

EXEF11-□, 15-□ models : M3-10 x 8 pcs

EXEF20-□ models : M4-12 x 8 pcs

EXEF24-□ models : M5-12 x 8 pcs

※ Hexagonal wrench included

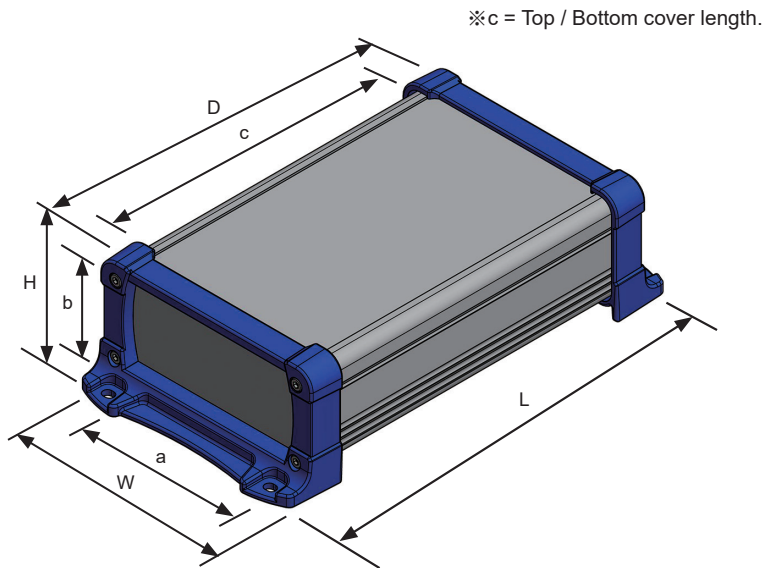
Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Metallic silver / Painted (Conductive inside)
2	Top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Flanged frame	2	PC+ABS Flame-resistant	Black • Gray / Unpainted Navy / Painted
5	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
6	Screw (Hexagonal)	8	Stainless steel	Unfinished

Color Type

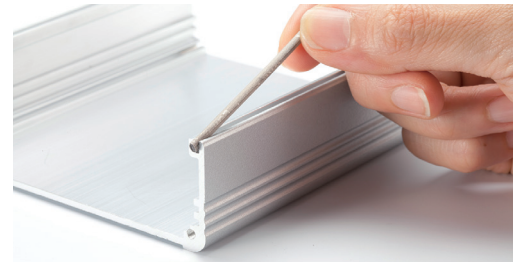
Code	S B Silver / Black	S G Silver / Gray	S N Silver / Navy
Color			

EXEF dimensions

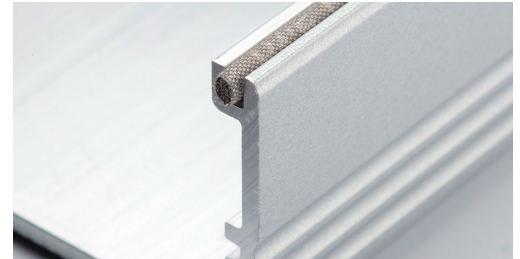


■ DXF/DWG/PDF/STP drawings available on our website.

How to install shield gaskets



■ Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.



■ Ensure that a small portion of the fabric-over-foam gaskets protrude out in order to maintain connections with the end panels.

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	External dimensions				Internal dimensions		
	W	H	D	L	a	b	c
EXEF 7- 3- 6□□	66	34	60	84	46	19.6	46
EXEF 7- 3- 9□□	66	34	87	111	46	19.6	73
EXEF 7- 3-11□□	66	34	110	134	46	19.6	96
EXEF 7- 4- 6□□	66	44	60	84	46	29.6	46
EXEF 7- 4- 9□□	66	44	87	111	46	29.6	73
EXEF 7- 4-11□□	66	44	110	134	46	29.6	96
EXEF 7- 6- 6□□	66	59	60	84	46	44.6	46
EXEF 7- 6- 9□□	66	59	87	111	46	44.6	73
EXEF 7- 6-11□□	66	59	110	134	46	44.6	96
EXEF 9- 4- 7□□	86	39	70	95.8	66	24.6	56
EXEF 9- 4-10□□	86	39	100	125.8	66	24.6	86
EXEF 9- 4-13□□	86	39	130	155.8	66	24.6	116
EXEF 9- 5- 7□□	86	49	70	95.8	66	34.6	56
EXEF 9- 5-10□□	86	49	100	125.8	66	34.6	86
EXEF 9- 5-13□□	86	49	130	155.8	66	34.6	116
EXEF 9- 6- 7□□	86	64	70	95.8	66	49.6	56
EXEF 9- 6-10□□	86	64	100	125.8	66	49.6	86
EXEF 9- 6-13□□	86	64	130	155.8	66	49.6	116
EXEF11- 4- 9□□	113	41.5	90	121.8	88	24	74
EXEF11- 4-13□□	113	41.5	130	161.8	88	24	114
EXEF11- 4-18□□	113	41.5	176	207.8	88	24	160
EXEF11- 6- 9□□	113	56.5	90	121.8	88	39	74
EXEF11- 6-13□□	113	56.5	130	161.8	88	39	114
EXEF11- 6-18□□	113	56.5	176	207.8	88	39	160
EXEF11- 7- 9□□	113	71.5	90	121.8	88	54	74
EXEF11- 7-13□□	113	71.5	130	161.8	88	54	114
EXEF11- 7-18□□	113	71.5	176	207.8	88	54	160
EXEF15- 5-11□□	148	47	110	149.2	106.8	29	93
EXEF15- 5-15□□	148	47	150	189.2	106.8	29	133
EXEF15- 5-20□□	148	47	200	239.2	106.8	29	183
EXEF15- 6-11□□	148	62	110	149.2	106.8	44	93
EXEF15- 6-15□□	148	62	150	189.2	106.8	44	133
EXEF15- 6-20□□	148	62	200	239.2	106.8	44	183
EXEF15- 8-11□□	148	82	110	149.2	106.8	64	93
EXEF15- 8-15□□	148	82	150	189.2	106.8	64	133
EXEF15- 8-20□□	148	82	200	239.2	106.8	64	183
EXEF15-10-11□□	148	102	110	149.2	106.8	84	93
EXEF15-10-15□□	148	102	150	189.2	106.8	84	133
EXEF15-10-20□□	148	102	200	239.2	106.8	84	183

Product no.	External dimensions				Internal dimensions		
	W	H	D	L	a	b	c
EXEF20- 6-14□□	195	57	140	188.6	131	35	120
EXEF20- 6-19□□	195	57	192	240.6	131	35	172
EXEF20- 6-25□□	195	57	245	293.6	131	35	225
EXEF20- 6-30□□	195	57	300	348.6	131	35	280
EXEF20- 8-14□□	195	75	140	188.6	131	53	120
EXEF20- 8-19□□	195	75	192	240.6	131	53	172
EXEF20- 8-25□□	195	75	245	293.6	131	53	225
EXEF20- 8-30□□	195	75	300	348.6	131	53	280
EXEF20-10-14□□	195	95	140	188.6	131	73	120
EXEF20-10-19□□	195	95	192	240.6	131	73	172
EXEF20-10-25□□	195	95	245	293.6	131	73	225
EXEF20-10-30□□	195	95	300	348.6	131	73	280
EXEF20-12-14□□	195	120	140	188.6	131	98	120
EXEF20-12-19□□	195	120	192	240.6	131	98	172
EXEF20-12-25□□	195	120	245	293.6	131	98	225
EXEF20-12-30□□	195	120	300	348.6	131	98	280
EXEF24- 7-17□□	240	65	170	218.6	176	43	147
EXEF24- 7-23□□	240	65	230	278.6	176	43	207
EXEF24- 7-29□□	240	65	290	338.6	176	43	267
EXEF24- 7-35□□	240	65	350	398.6	176	43	327
EXEF24- 9-17□□	240	90	170	218.6	176	68	147
EXEF24- 9-23□□	240	90	230	278.6	176	68	207
EXEF24- 9-29□□	240	90	290	338.6	176	68	267
EXEF24- 9-35□□	240	90	350	398.6	176	68	327
EXEF24-12-17□□	240	115	170	218.6	176	93	147
EXEF24-12-23□□	240	115	230	278.6	176	93	207
EXEF24-12-29□□	240	115	290	338.6	176	93	267
EXEF24-12-35□□	240	115	350	398.6	176	93	327



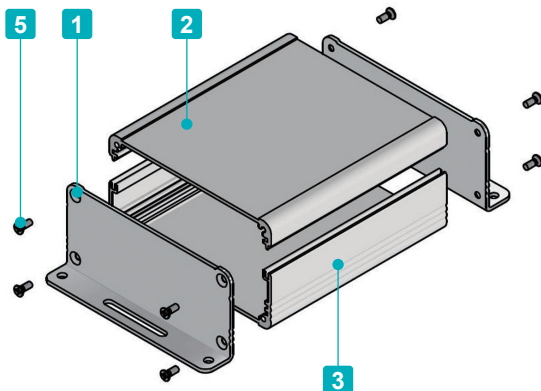
Following models are suitable for Mini-ITX board size.

EXEF20-8-19□□
EXEF20-10-19□□
EXEF20-12-19□□

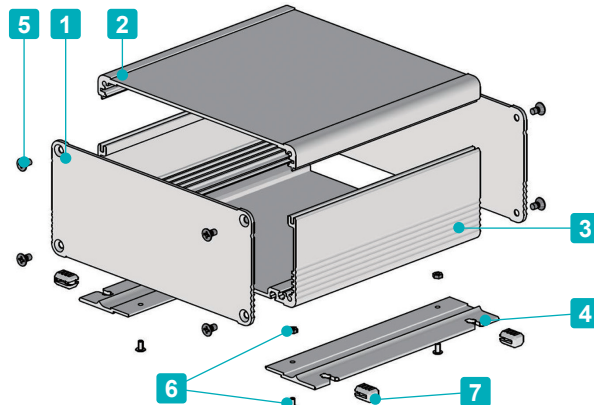


- Flanged panel type or flanged bracket type extruded aluminium enclosure.
- Equipped with flanged panel or bracket for easy wall mounting.
- Anodized finish with clear coating (except for flanged bracket) and selectable from 4 different color combinations.
- Rubber feet are included only on EXF19-□, 23-□ and 29-□ models.
- Custom length is available.

Flanged panel type EXF6-□, 8-□, 11-□ and 14-□



Flanged bracket type EXF19-□, 23-□ and 29-□



Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged panel (EXF6-□, 8-□, 11-□, 14-□) Panel (EXF19-□, 23-□, 29-□)	2	Aluminium A1050P	Silver • Black / Anodized
2	Top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Flange bracket (only for EXF19-□, 23-□, and 29-□)	2	Extruded aluminium A6063S-T5	Metallic silver / Painted • Black / Anodized
5	Panel screw (Phillips head)	8	Stainless steel	Unfinished
6	Flange screw / nut (only for EXF19-□, 23-□, and 29-□)	4 each	Steel	Black trivalent chromate
7	Rubber feet (only for EXF19-□, 23-□, and 29-□)	4	Silicone	Black

Color Type *For flange bracket models, color will be the same as top • bottom cover.

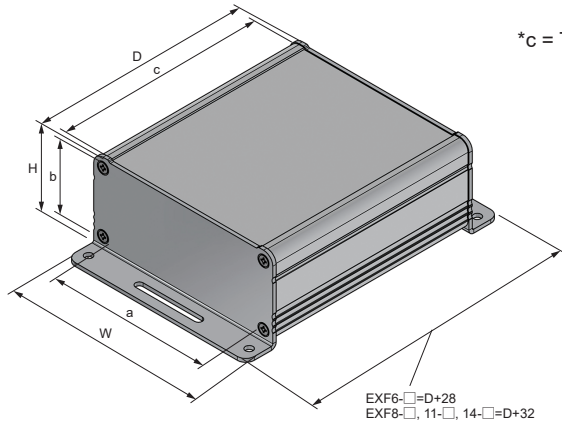
Code	S S Silver / Silver	S B Silver / Black	B S Black/Silver	B B Black/Black
Color				

EXF dimensions

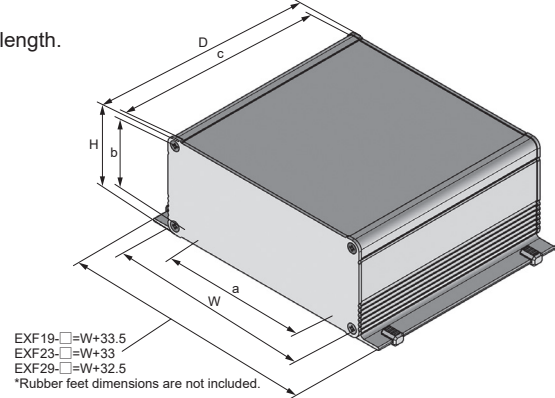
■ DXF/DWG/PDF/STP drawings available on our website.

Flanged panel type EXF6-□, 8-□, 11-□ and 14-□

Flanged bracket type EXF19-□, 23-□ and 29-□



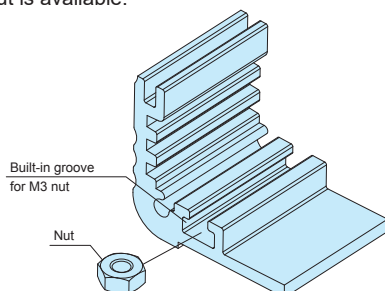
*c = Top/Bottom covers length.



Product no. / Details

Product no.	External dimensions			Internal dimensions			Weight (g)
	W	H	D	a	b	c	
EXF 6-3- 5□□	60.6	27.6	50	46	19.6	46	63
EXF 6-3- 8□□	60.6	27.6	77	46	19.6	73	85
EXF 6-3-10□□	60.6	27.6	100	46	19.6	96	105
EXF 6-4- 5□□	60.6	37.6	50	46	29.6	46	75
EXF 6-4- 8□□	60.6	37.6	77	46	29.6	73	101
EXF 6-4-10□□	60.6	37.6	100	46	29.6	96	124
EXF 6-5- 5□□	60.6	52.6	50	46	44.6	46	92
EXF 6-5- 8□□	60.6	52.6	77	46	44.6	73	122
EXF 6-5-10□□	60.6	52.6	100	46	44.6	96	148
EXF 8-3- 6□□	80.6	32.6	60	66	24.6	56	106
EXF 8-3- 9□□	80.6	32.6	90	66	24.6	86	143
EXF 8-3-12□□	80.6	32.6	120	66	24.6	116	180
EXF 8-4- 6□□	80.6	42.6	60	66	34.6	56	122
EXF 8-4- 9□□	80.6	42.6	90	66	34.6	86	162
EXF 8-4-12□□	80.6	42.6	120	66	34.6	116	203
EXF 8-6- 6□□	80.6	57.6	60	66	49.6	56	145
EXF 8-6- 9□□	80.6	57.6	90	66	49.6	86	189
EXF 8-6-12□□	80.6	57.6	120	66	49.6	116	234
EXF11-3- 8□□	106	33	78	88	24	74	177
EXF11-3-12□□	106	33	118	88	24	114	244
EXF11-3-16□□	106	33	164	88	24	160	322
EXF11-5- 8□□	106	48	78	88	39	74	206
EXF11-5-12□□	106	48	118	88	39	114	279
EXF11-5-16□□	106	48	164	88	39	160	364
EXF11-6- 8□□	106	63	78	88	54	74	238
EXF11-6-12□□	106	63	118	88	54	114	319
EXF11-6-16□□	106	63	164	88	54	160	412
EXF14-4-10□□	141	38	97	106.8	29	93	287
EXF14-4-14□□	141	38	137	106.8	29	133	377
EXF14-4-19□□	141	38	187	106.8	29	183	491
EXF14-5-10□□	141	53	97	106.8	44	93	325
EXF14-5-14□□	141	53	137	106.8	44	133	422
EXF14-5-19□□	141	53	187	106.8	44	183	544
EXF14-7-10□□	141	73	97	106.8	64	93	371
EXF14-7-14□□	141	73	137	106.8	64	133	475
EXF14-7-19□□	141	73	187	106.8	64	183	606
EXF14-9-10□□	141	93	97	106.8	84	93	422
EXF14-9-14□□	141	93	137	106.8	84	133	536
EXF14-9-19□□	141	93	187	106.8	84	183	679

- Grooves for M3 sliding nut are built into the top and bottom covers (140mm or wider). Optional nut is available.

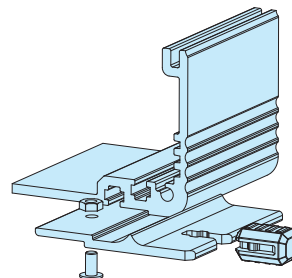


- Included screws
EXF 6-□ and 8-□ models : M2.5-8 x 8 pcs EXF11-□, 14-□ models : M3-8 x 8 pcs
EXF19-□ models : M4-10 x 8 pcs EXF23-□, 29-□ models : M5-10 x 8 pcs
- Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions			Weight (g)
	W	H	D	a	b	c	
EXF19- 4-13□□	186.5	45.25	125	131	35	120	652
EXF19- 4-18□□	186.5	45.25	177	131	35	172	875
EXF19- 4-23□□	186.5	45.25	230	131	35	225	1,101
EXF19- 4-29□□	186.5	45.25	285	131	35	280	1,333
EXF19- 6-13□□	186.5	63.25	125	131	53	120	722
EXF19- 6-18□□	186.5	63.25	177	131	53	172	959
EXF19- 6-23□□	186.5	63.25	230	131	53	225	1,195
EXF19- 6-29□□	186.5	63.25	285	131	53	280	1,444
EXF19- 8-13□□	186.5	83.25	125	131	73	120	802
EXF19- 8-18□□	186.5	83.25	177	131	73	172	1,059
EXF19- 8-23□□	186.5	83.25	230	131	73	225	1,311
EXF19- 8-29□□	186.5	83.25	285	131	73	280	1,576
EXF19-11-13□□	186.5	108.25	125	131	98	120	926
EXF19-11-18□□	186.5	108.25	177	131	98	172	1,184
EXF19-11-23□□	186.5	108.25	230	131	98	225	1,463
EXF19-11-29□□	186.5	108.25	285	131	98	280	1,739
EXF23- 5-15□□	232	53.5	153	176	43	147	1,024
EXF23- 5-21□□	232	53.5	213	176	43	207	1,350
EXF23- 5-27□□	232	53.5	273	176	43	267	1,682
EXF23- 5-33□□	232	53.5	333	176	43	327	2,012
EXF23- 8-15□□	232	78.5	153	176	68	147	1,164
EXF23- 8-21□□	232	78.5	213	176	68	207	1,509
EXF23- 8-27□□	232	78.5	273	176	68	267	1,854
EXF23- 8-33□□	232	78.5	333	176	68	327	2,225
EXF23-10-15□□	232	103.5	153	176	93	147	1,303
EXF23-10-21□□	232	103.5	213	176	93	207	1,682
EXF23-10-27□□	232	103.5	273	176	93	267	2,060
EXF23-10-33□□	232	103.5	333	176	93	327	2,455
EXF29- 8-23□□	287.5	78.75	234	230	68	228	1,893
EXF29- 8-30□□	287.5	78.75	304	230	68	298	2,361
EXF29- 8-38□□	287.5	78.75	384	230	68	378	2,896
EXF29-13-23□□	287.5	128.75	234	230	118	228	2,305
EXF29-13-30□□	287.5	128.75	304	230	118	298	2,832
EXF29-13-38□□	287.5	128.75	384	230	118	378	3,433

- Custom length is available.

- Flange bracket is installed as per the diagram below.



TLW series

TILT LEG



APPLICATION EXAMPLE

- Double shot injection molded feet with soft and well-designed rounded shape.
- Non-slip design with Elastomer (TPE) pad.
- Available in 3 different color patterns (2 color patterns for TLW-70 models).
- TLW-70E models are exclusively for use with width 185mm or larger bottom covers of EXP • EXPE • EXW • EX • EXH • EXHE aluminium enclosures.

Technical Data

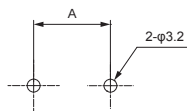
Max load : 7kg

Components

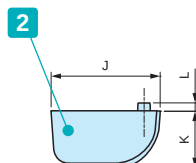
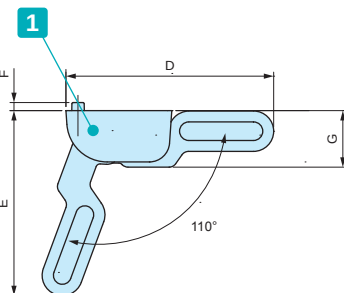
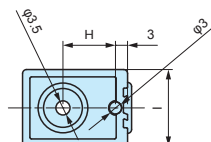
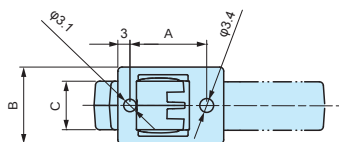
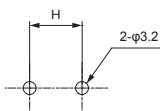
No.	Part name	Pcs	Material	Color / Finish
1	Front foot	2	PC + ABS UL94V-0 • TPE	Black & Black • Navy & Gray • Light gray & Gray
2	Rear foot	2	PC + ABS UL94V-0 • TPE	Black & Black • Navy & Gray • Light gray & Gray
-	Screw	4	Steel M3-8 pan head	Black trivalent chromate
-	Nut	4	Steel M3	Black trivalent chromate

TLW dimensions

Mounting hole (Front)



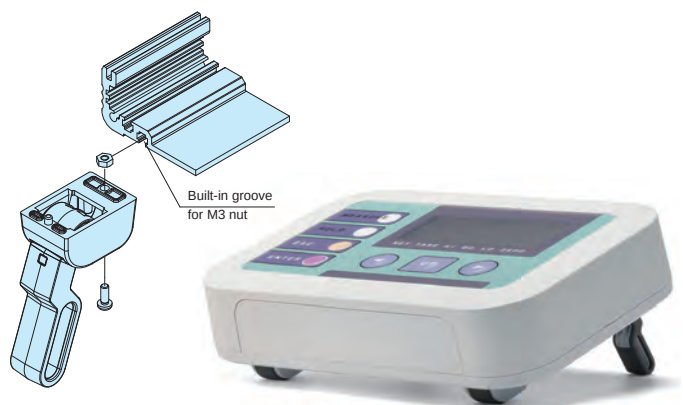
Mounting hole (Rear)



- DXF/DWG/PDF/STP drawings available on our website.

- TLW-70E□□ models are for installation (with M3 nut) into the built-in grooves on bottom-covers of EXP • EXPE 20-6, EXH • EXHE • EX 19-4 or larger models.

- Hole milling is required to install TLW-46□□ and TLW-70□□ models.
- Max installation panel thickness : t = 3.5mm



Product no. / Details

Product no.	A	B	C	D	E	F	G	H	I	J	K	L	Color (plastic)	Color (TPE)	Weight (g)
TLW-46BB	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Black	Black	23
TLW-46NG	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Navy	Gray	23
TLW-46LG	19	19	12	51.2	45.9	2	14	13	19	27	14	2	Light gray	Gray	23
TLW-70EBB	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Black	Black	59
TLW-70ENG	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Navy	Gray	59
TLW-70ELG	-	25	16	75.4	69	3	21.5	-	25	39	21.5	3	Light gray	Gray	59
TLW-70BB	30	25	16	75.4	69	2	21.5	20	25	39	21.5	2	Black	Black	59
TLW-70LG	30	25	16	75.4	69	2	21.5	20	25	39	21.5	2	Light gray	Gray	59

EF series

WALL MOUNTING BRACKET for EX • EXH • EXHE

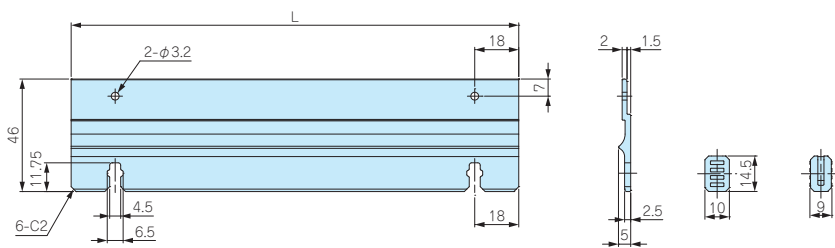
Installation Example



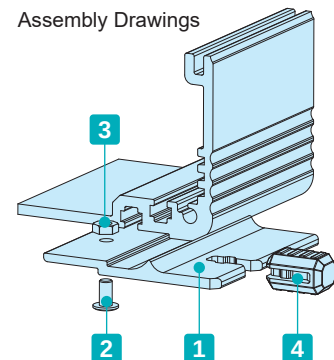
- Wall mounting bracket for EX, EXH, and EXHE series. Applicable only for width 185, 230, and 285mm bottom covers.
- Easy installation by inserting the nuts into built-in grooves on EX, EXH, and EXHE bottom cover.
- Rubber feet are included to hide the mounting cutouts when not used for wall mounting, and act as feet stabilizers for desktop use.

EF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Assembly Drawings



Components

No.	Part name	Pcs	Material	Color / Finish
1	Bracket	2	Extruded aluminium A6063S-T5	Metallic silver / Painted • Black / Anodized
2	Screw	4	Steel	Black trivalent chromate
3	Nut	4	Steel	Black trivalent chromate
4	Rubber feet	4	Silicone	Black

Product no. / Details

Product no.		L	Suitable models
● Metallic silver	● Black		
EF19-13S	EF19-13B	119.5	EX • EXH • EXHE19-□-13
EF19-18S	EF19-18B	171.5	EX • EXH • EXHE19-□-18
EF19-23S	EF19-23B	224.5	EX • EXH • EXHE19-□-23
EF19-29S	EF19-29B	279.5	EX • EXH • EXHE19-□-29
EF23-15S	EF23-15B	146.5	EX • EXH • EXHE23-□-15
EF23-21S	EF23-21B	206.5	EX • EXH • EXHE23-□-21
EF23-27S	EF23-27B	266.5	EX • EXH • EXHE23-□-27
EF23-33S	EF23-33B	326.5	EX • EXH • EXHE23-□-33
EF29-23S	EF29-23B	227.5	EX • EXH • EXHE29-□-23
EF29-30S	EF29-30B	297.5	EX • EXH • EXHE29-□-30
EF29-38S	EF29-38B	377.5	EX • EXH • EXHE29-□-38

AU series

NEXT GENERATION Aluminium Case

The perfect unity of flexibility, versatility, and appearance!



8 Distinct Models for Different Applications

Standard Model AU series

Standard model with front/rear sheet aluminium panels.



See page 243 ~ 248

Detachable Panel Model AUP series

Easy maintenance with detachable front/rear panels.
An EMC shielded AUPE series is also available.



See page 249 ~ 254

Control Box Model AUX series

Structure of extruded aluminium frames on 4 sides.

Suitable for control box use.

EMC shielded AUXE series is also available.



See page 261 ~ 266

Corner Guard Model AUG series

TPE Corner guard model.

An EMC shielded AUG series and a carrying handle equipped portable AUGH series are also available.



See page 275 ~ 280

Providing versatile and flexible enclosing solutions

The aluminium case AU series has an assembly-type structure which allows it to be easily customizable. Both versatile and flexible, it is designed to be used as various devices from the classic audio amplifiers to next-gen IoT devices.

Select from a huge line-up of 430 different sizes based on your application type and ideas.

Measuring Equipment



Command Panel



Fiber Optic Transmitter



Industrial Embedded PC



Audio Amplifier



Power Supply

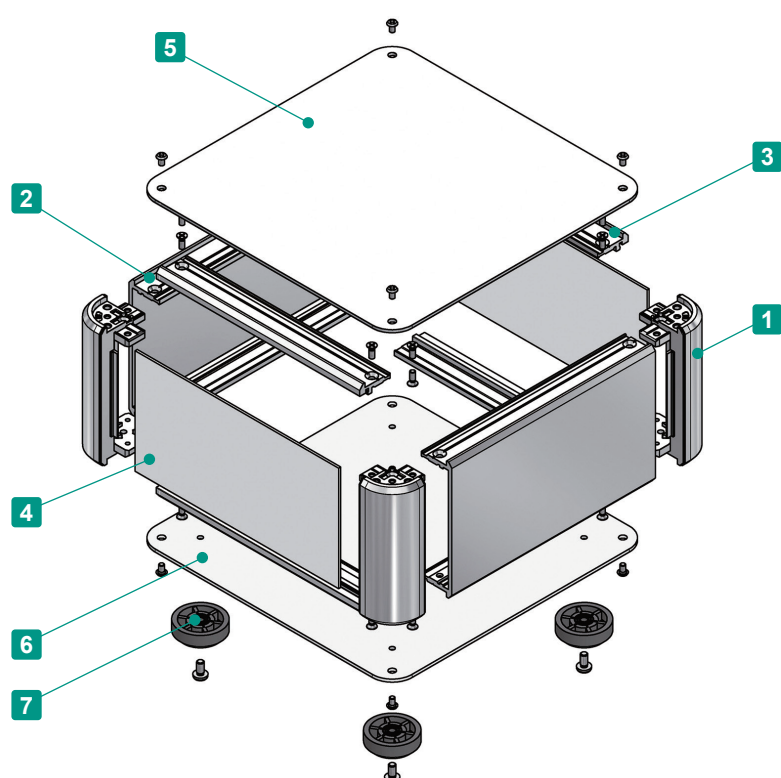


Tube amplifier





- Elegantly designed aluminium enclosure with front/rear panels.
- A large selection of 430 different sizes to choose from.
- Top/bottom covers and front/rear panels are made from easily customizable sheet aluminium material.
- Versatile aluminium enclosure suitable for use as measuring instrument, controller, industrial embedded computer, power supply, audio amplifier, and more.
- Feet is selectable from adhesive rubber and aluminium types.

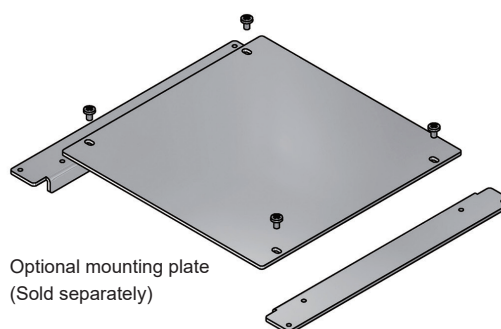


Included screws

- Top / Bottom cover
M3-5 original trapezoid head (plus / hex) &
Nickel plated / Black trivalent chromate x 8~16 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Rubber feet / Aluminium feet
M4-8 blind head & Black trivalent chromate x 4 pcs

Recommended torque : $0.3 \sim 0.6 \text{ N} \cdot \text{m}$

* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.



Optional mounting plate
(Sold separately)

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel	2	Aluminium A1100P	Silver • Black / Anodized
5	Top cover	1	Aluminium A1100P	Silver • Black / Anodized
6	Bottom cover	1	Aluminium A1100P	Silver • Black / Anodized
7	Rubber feet : Aluminium feet	4	TPE (Elastomer) : Aluminium	Black : Silver • Black / Anodized

To select Feet, Screw, and Color, follow steps **1** ~ **3** to determine product number.

1 Feet

*Color of "Aluminium Feet" will be the same as bottom cover color.

2 Screw

*Color of screw will be the same as top • bottom cover color.

R Rubber (Black)



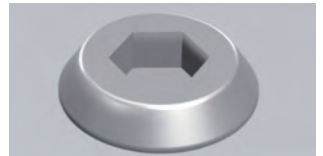
A Aluminium (Silver / Anodized) (Black / Anodized)



P Plus (Silver / Nickel plated) (Black / Black trivalent chromate)



H Hex (Silver / Nickel plated) (Black / Black trivalent chromate)



Hex wrench included.

3 Color

Please choose from the color combinations listed below.

S S



S B



B S



B B



Product Number

To determine a product number, fill H-W-D dimensions and select Feet, Screw, and Color code in the following blank boxes.

AU

- -

H-W-D dimensions

-

1 Feet **2 Screw**

3 Color

See page 245~248 for dimensions and product no.

R or A

P or H

SS • SB • BS • BB

Numbering example :

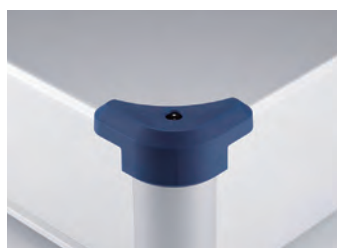
If looking at "H88 x W300 x D200mm, Feet type A, Screw type H, Color type BS"

➔ **AU 88-30-20 AH-BS**

Accessories (Optional parts)



Mounting plate AUC series
See page 293 ~ 294



Corner guard AUCG series
See page 294

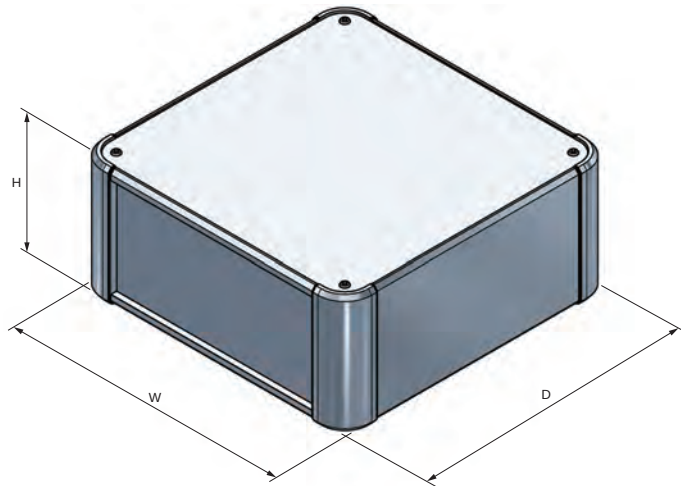


Elastomer carrying handle FM200
See website



Tilt leg TLW series
See page 239

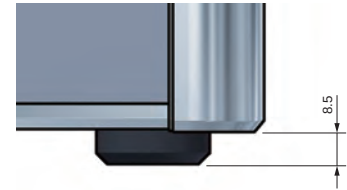
AU dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

■ Feet is selectable from rubber and aluminium types.
※Rubber and aluminium feet height are different.

Rubber Feet



Aluminium Feet



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AU 44-16-16□□-□□	44	160	160	0.7
AU 44-16-20□□-□□	44	160	200	0.8
AU 44-16-25□□-□□	44	160	250	1.0
AU 44-16-30□□-□□	44	160	300	1.1
AU 44-16-36□□-□□	44	160	360	1.3
AU 44-16-43□□-□□	44	160	430	1.5
AU 44-20-16□□-□□	44	200	160	0.8
AU 44-20-20□□-□□	44	200	200	0.9
AU 44-20-25□□-□□	44	200	250	1.1
AU 44-20-30□□-□□	44	200	300	1.3
AU 44-20-36□□-□□	44	200	360	1.5
AU 44-20-43□□-□□	44	200	430	1.7
AU 44-25-16□□-□□	44	250	160	1.0
AU 44-25-20□□-□□	44	250	200	1.1
AU 44-25-25□□-□□	44	250	250	1.3
AU 44-25-30□□-□□	44	250	300	1.5
AU 44-25-36□□-□□	44	250	360	1.7
AU 44-25-43□□-□□	44	250	430	2.0
AU 44-30-16□□-□□	44	300	160	1.1
AU 44-30-20□□-□□	44	300	200	1.3
AU 44-30-25□□-□□	44	300	250	1.5
AU 44-30-30□□-□□	44	300	300	1.7
AU 44-30-36□□-□□	44	300	360	2.0
AU 44-30-43□□-□□	44	300	430	2.3
AU 44-30-50□□-□□	44	300	500	2.6
AU 44-36-16□□-□□	44	360	160	1.3
AU 44-36-20□□-□□	44	360	200	1.5
AU 44-36-25□□-□□	44	360	250	1.7
AU 44-36-30□□-□□	44	360	300	2.0
AU 44-36-36□□-□□	44	360	360	2.2
AU 44-36-43□□-□□	44	360	430	2.6
AU 44-36-50□□-□□	44	360	500	3.0
AU 44-43-16□□-□□	44	430	160	1.5
AU 44-43-20□□-□□	44	430	200	1.7
AU 44-43-25□□-□□	44	430	250	2.0
AU 44-43-30□□-□□	44	430	300	2.3
AU 44-43-36□□-□□	44	430	360	2.6
AU 44-43-43□□-□□	44	430	430	3.0
AU 44-43-50□□-□□	44	430	500	3.4
AU 44-50-30□□-□□	44	500	300	2.6
AU 44-50-36□□-□□	44	500	360	3.0
AU 44-50-43□□-□□	44	500	430	3.4
AU 44-50-50□□-□□	44	500	500	3.9

Product no.	H	W	D	Weight (kg)
AU 66-16-16□□-□□	66	160	160	0.9
AU 66-16-20□□-□□	66	160	200	1.0
AU 66-16-25□□-□□	66	160	250	1.2
AU 66-16-30□□-□□	66	160	300	1.3
AU 66-16-36□□-□□	66	160	360	1.5
AU 66-16-43□□-□□	66	160	430	1.7
AU 66-20-16□□-□□	66	200	160	1.0
AU 66-20-20□□-□□	66	200	200	1.1
AU 66-20-25□□-□□	66	200	250	1.3
AU 66-20-30□□-□□	66	200	300	1.5
AU 66-20-36□□-□□	66	200	360	1.7
AU 66-20-43□□-□□	66	200	430	2.0
AU 66-25-16□□-□□	66	250	160	1.1
AU 66-25-20□□-□□	66	250	200	1.3
AU 66-25-25□□-□□	66	250	250	1.5
AU 66-25-30□□-□□	66	250	300	1.7
AU 66-25-36□□-□□	66	250	360	2.0
AU 66-25-43□□-□□	66	250	430	2.3
AU 66-30-16□□-□□	66	300	160	1.3
AU 66-30-20□□-□□	66	300	200	1.5
AU 66-30-25□□-□□	66	300	250	1.7
AU 66-30-30□□-□□	66	300	300	1.9
AU 66-30-36□□-□□	66	300	360	2.2
AU 66-30-43□□-□□	66	300	430	2.6
AU 66-30-50□□-□□	66	300	500	2.9
AU 66-36-16□□-□□	66	360	160	1.5
AU 66-36-20□□-□□	66	360	200	1.7
AU 66-36-25□□-□□	66	360	250	1.9
AU 66-36-30□□-□□	66	360	300	2.2
AU 66-36-36□□-□□	66	360	360	2.5
AU 66-36-43□□-□□	66	360	430	2.9
AU 66-36-50□□-□□	66	360	500	3.3
AU 66-43-16□□-□□	66	430	160	1.7
AU 66-43-20□□-□□	66	430	200	1.9
AU 66-43-25□□-□□	66	430	250	2.2
AU 66-43-30□□-□□	66	430	300	2.5
AU 66-43-36□□-□□	66	430	360	2.9
AU 66-43-43□□-□□	66	430	430	3.3
AU 66-43-50□□-□□	66	430	500	3.7
AU 66-50-30□□-□□	66	500	300	2.8
AU 66-50-36□□-□□	66	500	360	3.3
AU 66-50-43□□-□□	66	500	430	3.7
AU 66-50-50□□-□□	66	500	500	4.2

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AU 88-16-16□□-□□	88	160	160	0.9
AU 88-16-20□□-□□	88	160	200	1.1
AU 88-16-25□□-□□	88	160	250	1.3
AU 88-16-30□□-□□	88	160	300	1.4
AU 88-16-36□□-□□	88	160	360	1.7
AU 88-16-43□□-□□	88	160	430	1.9
AU 88-20-16□□-□□	88	200	160	1.1
AU 88-20-20□□-□□	88	200	200	1.2
AU 88-20-25□□-□□	88	200	250	1.4
AU 88-20-30□□-□□	88	200	300	1.6
AU 88-20-36□□-□□	88	200	360	1.8
AU 88-20-43□□-□□	88	200	430	2.1
AU 88-25-16□□-□□	88	250	160	1.2
AU 88-25-20□□-□□	88	250	200	1.4
AU 88-25-25□□-□□	88	250	250	1.6
AU 88-25-30□□-□□	88	250	300	1.8
AU 88-25-36□□-□□	88	250	360	2.1
AU 88-25-43□□-□□	88	250	430	2.4
AU 88-30-16□□-□□	88	300	160	1.4
AU 88-30-20□□-□□	88	300	200	1.6
AU 88-30-25□□-□□	88	300	250	1.8
AU 88-30-30□□-□□	88	300	300	2.1
AU 88-30-36□□-□□	88	300	360	2.4
AU 88-30-43□□-□□	88	300	430	2.7
AU 88-30-50□□-□□	88	300	500	3.1
AU 88-36-16□□-□□	88	360	160	1.6
AU 88-36-20□□-□□	88	360	200	1.8
AU 88-36-25□□-□□	88	360	250	2.1
AU 88-36-30□□-□□	88	360	300	2.3
AU 88-36-36□□-□□	88	360	360	2.7
AU 88-36-43□□-□□	88	360	430	3.1
AU 88-36-50□□-□□	88	360	500	3.5
AU 88-43-16□□-□□	88	430	160	1.8
AU 88-43-20□□-□□	88	430	200	2.1
AU 88-43-25□□-□□	88	430	250	2.4
AU 88-43-30□□-□□	88	430	300	2.7
AU 88-43-36□□-□□	88	430	360	3.1
AU 88-43-43□□-□□	88	430	430	3.5
AU 88-43-50□□-□□	88	430	500	4.0
AU 88-50-30□□-□□	88	500	300	3.0
AU 88-50-36□□-□□	88	500	360	3.4
AU 88-50-43□□-□□	88	500	430	3.9
AU 88-50-50□□-□□	88	500	500	4.4
NEW AU 99-16-16□□-□□	99	160	160	1.0
NEW AU 99-16-20□□-□□	99	160	200	1.1
NEW AU 99-16-25□□-□□	99	160	250	1.3
NEW AU 99-16-30□□-□□	99	160	300	1.4
NEW AU 99-16-36□□-□□	99	160	360	1.7
NEW AU 99-16-43□□-□□	99	160	430	1.9
NEW AU 99-20-16□□-□□	99	200	160	1.1
NEW AU 99-20-20□□-□□	99	200	200	1.2
NEW AU 99-20-25□□-□□	99	200	250	1.4
NEW AU 99-20-30□□-□□	99	200	300	1.6
NEW AU 99-20-36□□-□□	99	200	360	1.9
NEW AU 99-20-43□□-□□	99	200	430	2.2
NEW AU 99-25-16□□-□□	99	250	160	1.2
NEW AU 99-25-20□□-□□	99	250	200	1.4
NEW AU 99-25-25□□-□□	99	250	250	1.6
NEW AU 99-25-30□□-□□	99	250	300	1.9
NEW AU 99-25-36□□-□□	99	250	360	2.1
NEW AU 99-25-43□□-□□	99	250	430	2.5
NEW AU 99-30-16□□-□□	99	300	160	1.4
NEW AU 99-30-20□□-□□	99	300	200	1.6
NEW AU 99-30-25□□-□□	99	300	250	1.9
NEW AU 99-30-30□□-□□	99	300	300	2.1

Product no.	H	W	D	Weight (kg)
NEW AU 99-30-36□□-□□	99	300	360	2.4
NEW AU 99-30-43□□-□□	99	300	430	2.8
NEW AU 99-30-50□□-□□	99	300	500	3.1
NEW AU 99-36-16□□-□□	99	360	160	1.6
NEW AU 99-36-20□□-□□	99	360	200	1.8
NEW AU 99-36-25□□-□□	99	360	250	2.1
NEW AU 99-36-30□□-□□	99	360	300	2.4
NEW AU 99-36-36□□-□□	99	360	360	2.7
NEW AU 99-36-43□□-□□	99	360	430	3.2
NEW AU 99-36-50□□-□□	99	360	500	3.6
NEW AU 99-43-16□□-□□	99	430	160	1.8
NEW AU 99-43-20□□-□□	99	430	200	2.1
NEW AU 99-43-25□□-□□	99	430	250	2.4
NEW AU 99-43-30□□-□□	99	430	300	2.7
NEW AU 99-43-36□□-□□	99	430	360	3.1
NEW AU 99-43-43□□-□□	99	430	430	3.6
NEW AU 99-43-50□□-□□	99	430	500	4.0
NEW AU 99-50-30□□-□□	99	500	300	3.1
NEW AU 99-50-36□□-□□	99	500	360	3.5
NEW AU 99-50-43□□-□□	99	500	430	4.0
NEW AU 99-50-50□□-□□	99	500	500	4.5
NEW AU115-16-16□□-□□	115	160	160	1.0
NEW AU115-16-20□□-□□	115	160	200	1.2
NEW AU115-16-25□□-□□	115	160	250	1.4
NEW AU115-16-30□□-□□	115	160	300	1.5
NEW AU115-16-36□□-□□	115	160	360	1.8
NEW AU115-16-43□□-□□	115	160	430	2.1
NEW AU115-20-16□□-□□	115	200	160	1.2
NEW AU115-20-20□□-□□	115	200	200	1.3
NEW AU115-20-25□□-□□	115	200	250	1.5
NEW AU115-20-30□□-□□	115	200	300	1.7
NEW AU115-20-36□□-□□	115	200	360	2.0
NEW AU115-20-43□□-□□	115	200	430	2.3
NEW AU115-25-16□□-□□	115	250	160	1.3
NEW AU115-25-20□□-□□	115	250	200	1.5
NEW AU115-25-25□□-□□	115	250	250	1.7
NEW AU115-25-30□□-□□	115	250	300	2.0
NEW AU115-25-36□□-□□	115	250	360	2.3
NEW AU115-25-43□□-□□	115	250	430	2.6
NEW AU115-30-16□□-□□	115	300	160	1.5
NEW AU115-30-20□□-□□	115	300	200	1.7
NEW AU115-30-25□□-□□	115	300	250	2.0
NEW AU115-30-30□□-□□	115	300	300	2.2
NEW AU115-30-36□□-□□	115	300	360	2.5
NEW AU115-30-43□□-□□	115	300	430	2.9
NEW AU115-30-50□□-□□	115	300	500	3.3
NEW AU115-36-16□□-□□	115	360	160	1.7
NEW AU115-36-20□□-□□	115	360	200	1.9
NEW AU115-36-25□□-□□	115	360	250	2.2
NEW AU115-36-30□□-□□	115	360	300	2.5
NEW AU115-36-36□□-□□	115	360	360	2.9
NEW AU115-36-43□□-□□	115	360	430	3.3
NEW AU115-36-50□□-□□	115	360	500	3.7
NEW AU115-43-16□□-□□	115	430	160	2.0
NEW AU115-43-20□□-□□	115	430	200	2.2
NEW AU115-43-25□□-□□	115	430	250	2.6
NEW AU115-43-30□□-□□	115	430	300	2.9
NEW AU115-43-36□□-□□	115	430	360	3.3
NEW AU115-43-43□□-□□	115	430	430	3.8
NEW AU115-43-50□□-□□	115	430	500	4.2
NEW AU115-50-30□□-□□	115	500	300	3.2
NEW AU115-50-36□□-□□	115	500	360	3.7
NEW AU115-50-43□□-□□	115	500	430	4.2
NEW AU115-50-50□□-□□	115	500	500	4.7

Product no. / Details

Product no.	H	W	D	Weight (kg)
AU133-16-16□□-□□	132.5	160	160	1.2
AU133-16-20□□-□□	132.5	160	200	1.4
AU133-16-25□□-□□	132.5	160	250	1.6
AU133-16-30□□-□□	132.5	160	300	1.8
AU133-16-36□□-□□	132.5	160	360	2.1
AU133-16-43□□-□□	132.5	160	430	2.4
AU133-20-16□□-□□	132.5	200	160	1.3
AU133-20-20□□-□□	132.5	200	200	1.5
AU133-20-25□□-□□	132.5	200	250	1.7
AU133-20-30□□-□□	132.5	200	300	2.0
AU133-20-36□□-□□	132.5	200	360	2.3
AU133-20-43□□-□□	132.5	200	430	2.6
AU133-25-16□□-□□	132.5	250	160	1.5
AU133-25-20□□-□□	132.5	250	200	1.7
AU133-25-25□□-□□	132.5	250	250	2.0
AU133-25-30□□-□□	132.5	250	300	2.2
AU133-25-36□□-□□	132.5	250	360	2.6
AU133-25-43□□-□□	132.5	250	430	3.0
AU133-30-16□□-□□	132.5	300	160	1.7
AU133-30-20□□-□□	132.5	300	200	1.9
AU133-30-25□□-□□	132.5	300	250	2.2
AU133-30-30□□-□□	132.5	300	300	2.5
AU133-30-36□□-□□	132.5	300	360	2.8
AU133-30-43□□-□□	132.5	300	430	3.3
AU133-30-50□□-□□	132.5	300	500	3.7
AU133-36-16□□-□□	132.5	360	160	1.9
AU133-36-20□□-□□	132.5	360	200	2.1
AU133-36-25□□-□□	132.5	360	250	2.5
AU133-36-30□□-□□	132.5	360	300	2.8
AU133-36-36□□-□□	132.5	360	360	3.2
AU133-36-43□□-□□	132.5	360	430	3.7
AU133-36-50□□-□□	132.5	360	500	4.1
AU133-43-16□□-□□	132.5	430	160	2.2
AU133-43-20□□-□□	132.5	430	200	2.4
AU133-43-25□□-□□	132.5	430	250	2.8
AU133-43-30□□-□□	132.5	430	300	3.2
AU133-43-36□□-□□	132.5	430	360	3.6
AU133-43-43□□-□□	132.5	430	430	4.1
AU133-43-50□□-□□	132.5	430	500	4.6
AU133-50-30□□-□□	132.5	500	300	3.5
AU133-50-36□□-□□	132.5	500	360	4.0
AU133-50-43□□-□□	132.5	500	430	4.6
AU133-50-50□□-□□	132.5	500	500	5.1
NEW AU149-16-16□□-□□	149	160	160	1.2
NEW AU149-16-20□□-□□	149	160	200	1.4
NEW AU149-16-25□□-□□	149	160	250	1.6
NEW AU149-16-30□□-□□	149	160	300	1.9
NEW AU149-16-36□□-□□	149	160	360	2.1
NEW AU149-16-43□□-□□	149	160	430	2.5
NEW AU149-20-16□□-□□	149	200	160	1.4
NEW AU149-20-20□□-□□	149	200	200	1.6
NEW AU149-20-25□□-□□	149	200	250	1.8
NEW AU149-20-30□□-□□	149	200	300	2.1
NEW AU149-20-36□□-□□	149	200	360	2.4
NEW AU149-20-43□□-□□	149	200	430	2.7
NEW AU149-25-16□□-□□	149	250	160	1.5
NEW AU149-25-20□□-□□	149	250	200	1.8
NEW AU149-25-25□□-□□	149	250	250	2.0
NEW AU149-25-30□□-□□	149	250	300	2.3
NEW AU149-25-36□□-□□	149	250	360	2.7
NEW AU149-25-43□□-□□	149	250	430	3.1
NEW AU149-30-16□□-□□	149	300	160	1.7
NEW AU149-30-20□□-□□	149	300	200	2.0
NEW AU149-30-25□□-□□	149	300	250	2.3
NEW AU149-30-30□□-□□	149	300	300	2.6

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AU149-30-36□□-□□	149	300	360	2.9
NEW AU149-30-43□□-□□	149	300	430	3.4
NEW AU149-30-50□□-□□	149	300	500	3.8
NEW AU149-36-16□□-□□	149	360	160	1.9
NEW AU149-36-20□□-□□	149	360	200	2.2
NEW AU149-36-25□□-□□	149	360	250	2.5
NEW AU149-36-30□□-□□	149	360	300	2.9
NEW AU149-36-36□□-□□	149	360	360	3.3
NEW AU149-36-43□□-□□	149	360	430	3.8
NEW AU149-36-50□□-□□	149	360	500	4.3
NEW AU149-43-16□□-□□	149	430	160	2.2
NEW AU149-43-20□□-□□	149	430	200	2.5
NEW AU149-43-25□□-□□	149	430	250	2.9
NEW AU149-43-30□□-□□	149	430	300	3.3
NEW AU149-43-36□□-□□	149	430	360	3.7
NEW AU149-43-43□□-□□	149	430	430	4.2
NEW AU149-43-50□□-□□	149	430	500	4.8
NEW AU149-50-30□□-□□	149	500	300	3.6
NEW AU149-50-36□□-□□	149	500	360	4.1
NEW AU149-50-43□□-□□	149	500	430	4.7
NEW AU149-50-50□□-□□	149	500	500	5.3
AU177-16-16□□-□□	177	160	160	1.4
AU177-16-20□□-□□	177	160	200	1.6
AU177-16-25□□-□□	177	160	250	1.8
AU177-16-30□□-□□	177	160	300	2.1
AU177-16-36□□-□□	177	160	360	2.4
AU177-16-43□□-□□	177	160	430	2.7
AU177-20-16□□-□□	177	200	160	1.5
AU177-20-20□□-□□	177	200	200	1.7
AU177-20-25□□-□□	177	200	250	2.0
AU177-20-30□□-□□	177	200	300	2.3
AU177-20-36□□-□□	177	200	360	2.6
AU177-20-43□□-□□	177	200	430	3.0
AU177-25-16□□-□□	177	250	160	1.7
AU177-25-20□□-□□	177	250	200	1.9
AU177-25-25□□-□□	177	250	250	2.2
AU177-25-30□□-□□	177	250	300	2.5
AU177-25-36□□-□□	177	250	360	2.9
AU177-25-43□□-□□	177	250	430	3.3
AU177-30-16□□-□□	177	300	160	1.9
AU177-30-20□□-□□	177	300	200	2.2
AU177-30-25□□-□□	177	300	250	2.5
AU177-30-30□□-□□	177	300	300	2.8
AU177-30-36□□-□□	177	300	360	3.2
AU177-30-43□□-□□	177	300	430	3.7
AU177-30-50□□-□□	177	300	500	4.1
AU177-36-16□□-□□	177	360	160	2.1
AU177-36-20□□-□□	177	360	200	2.4
AU177-36-25□□-□□	177	360	250	2.8
AU177-36-30□□-□□	177	360	300	3.1
AU177-36-36□□-□□	177	360	360	3.6
AU177-36-43□□-□□	177	360	430	4.1
AU177-36-50□□-□□	177	360	500	4.6
AU177-43-16□□-□□	177	430	160	2.4
AU177-43-20□□-□□	177	430	200	2.7
AU177-43-25□□-□□	177	430	250	3.1
AU177-43-30□□-□□	177	430	300	3.5
AU177-43-36□□-□□	177	430	360	4.0
AU177-43-43□□-□□	177	430	430	4.6
AU177-43-50□□-□□	177	430	500	5.1
AU177-50-30□□-□□	177	500	300	3.9
AU177-50-36□□-□□	177	500	360	4.4
AU177-50-43□□-□□	177	500	430	5.0
AU177-50-50□□-□□	177	500	500	5.6

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AU222-16-16□□-□□	221.5	161	161	1.6
NEW AU222-16-20□□-□□	221.5	161	201	1.8
NEW AU222-16-25□□-□□	221.5	161	251	2.1
NEW AU222-16-30□□-□□	221.5	161	301	2.4
NEW AU222-16-36□□-□□	221.5	161	361	2.7
NEW AU222-16-43□□-□□	221.5	161	431	3.2
NEW AU222-20-16□□-□□	221.5	201	161	1.8
NEW AU222-20-20□□-□□	221.5	201	201	2.0
NEW AU222-20-25□□-□□	221.5	201	251	2.3
NEW AU222-20-30□□-□□	221.5	201	301	2.6
NEW AU222-20-36□□-□□	221.5	201	361	3.0
NEW AU222-20-43□□-□□	221.5	201	431	3.4
NEW AU222-25-16□□-□□	221.5	251	161	2.0
NEW AU222-25-20□□-□□	221.5	251	201	2.2
NEW AU222-25-25□□-□□	221.5	251	251	2.6
NEW AU222-25-30□□-□□	221.5	251	301	2.9
NEW AU222-25-36□□-□□	221.5	251	361	3.3
NEW AU222-25-43□□-□□	221.5	251	431	3.8
NEW AU222-30-16□□-□□	221.5	301	161	2.2
NEW AU222-30-20□□-□□	221.5	301	201	2.5
NEW AU222-30-25□□-□□	221.5	301	251	2.8
NEW AU222-30-30□□-□□	221.5	301	301	3.2
NEW AU222-30-36□□-□□	221.5	301	361	3.6
NEW AU222-30-43□□-□□	221.5	301	431	4.2
NEW AU222-30-50□□-□□	221.5	301	501	4.7
NEW AU222-36-16□□-□□	221.5	361	161	2.4
NEW AU222-36-20□□-□□	221.5	361	201	2.7
NEW AU222-36-25□□-□□	221.5	361	251	3.1
NEW AU222-36-30□□-□□	221.5	361	301	3.5
NEW AU222-36-36□□-□□	221.5	361	361	4.0
NEW AU222-36-43□□-□□	221.5	361	431	4.6
NEW AU222-36-50□□-□□	221.5	361	501	5.1
NEW AU222-43-16□□-□□	221.5	431	161	2.7
NEW AU222-43-20□□-□□	221.5	431	201	3.1
NEW AU222-43-25□□-□□	221.5	431	251	3.5
NEW AU222-43-30□□-□□	221.5	431	301	4.0
NEW AU222-43-36□□-□□	221.5	431	361	4.5
NEW AU222-43-43□□-□□	221.5	431	431	5.1
NEW AU222-43-50□□-□□	221.5	431	501	5.7
NEW AU222-50-30□□-□□	221.5	501	301	4.4
NEW AU222-50-36□□-□□	221.5	501	361	4.9
NEW AU222-50-43□□-□□	221.5	501	431	5.6
NEW AU222-50-50□□-□□	221.5	501	501	6.2

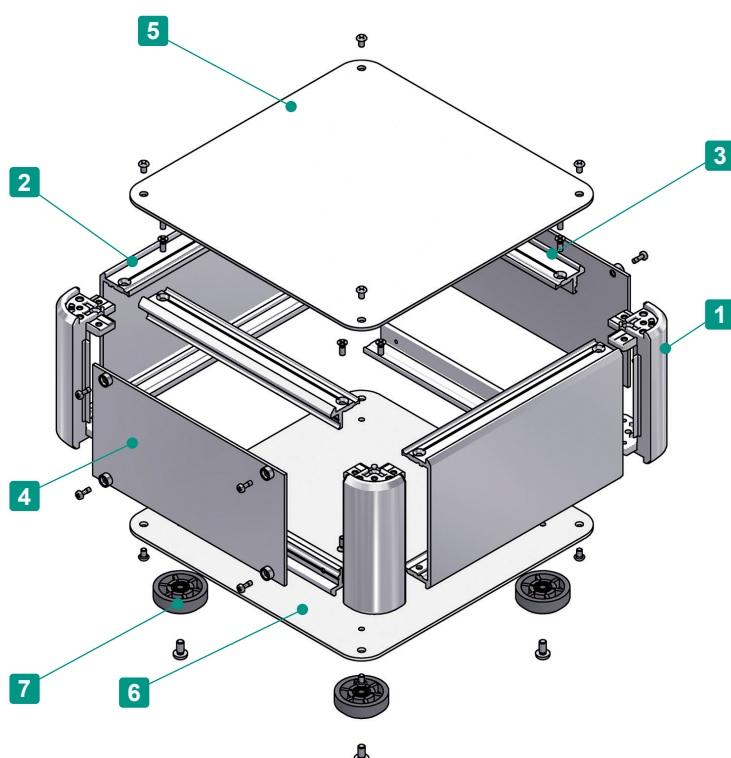
Product no.	H	W	D	Weight (kg)
NEW AU266-16-16□□-□□	265.9	161	161	1.9
NEW AU266-16-20□□-□□	265.9	161	201	2.2
NEW AU266-16-25□□-□□	265.9	161	251	2.5
NEW AU266-16-30□□-□□	265.9	161	301	2.9
NEW AU266-16-36□□-□□	265.9	161	361	3.3
NEW AU266-16-43□□-□□	265.9	161	431	3.8
NEW AU266-20-16□□-□□	265.9	201	161	2.1
NEW AU266-20-20□□-□□	265.9	201	201	2.4
NEW AU266-20-25□□-□□	265.9	201	251	2.7
NEW AU266-20-30□□-□□	265.9	201	301	3.1
NEW AU266-20-36□□-□□	265.9	201	361	3.6
NEW AU266-20-43□□-□□	265.9	201	431	4.1
NEW AU266-25-16□□-□□	265.9	251	161	2.3
NEW AU266-25-20□□-□□	265.9	251	201	2.6
NEW AU266-25-25□□-□□	265.9	251	251	3.0
NEW AU266-25-30□□-□□	265.9	251	301	3.4
NEW AU266-25-36□□-□□	265.9	251	361	3.9
NEW AU266-25-43□□-□□	265.9	251	431	4.5
NEW AU266-30-16□□-□□	265.9	301	161	2.5
NEW AU266-30-20□□-□□	265.9	301	201	2.9
NEW AU266-30-25□□-□□	265.9	301	251	3.3
NEW AU266-30-30□□-□□	265.9	301	301	3.7
NEW AU266-30-36□□-□□	265.9	301	361	4.2
NEW AU266-30-43□□-□□	265.9	301	431	4.9
NEW AU266-30-50□□-□□	265.9	301	501	5.5
NEW AU266-36-16□□-□□	265.9	361	161	2.8
NEW AU266-36-20□□-□□	265.9	361	201	3.2
NEW AU266-36-25□□-□□	265.9	361	251	3.6
NEW AU266-36-30□□-□□	265.9	361	301	4.1
NEW AU266-36-36□□-□□	265.9	361	361	4.6
NEW AU266-36-43□□-□□	265.9	361	431	5.3
NEW AU266-36-50□□-□□	265.9	361	501	6.0
NEW AU266-43-16□□-□□	265.9	431	161	3.1
NEW AU266-43-20□□-□□	265.9	431	201	3.5
NEW AU266-43-25□□-□□	265.9	431	251	4.0
NEW AU266-43-30□□-□□	265.9	431	301	4.5
NEW AU266-43-36□□-□□	265.9	431	361	5.1
NEW AU266-43-43□□-□□	265.9	431	431	5.8
NEW AU266-43-50□□-□□	265.9	431	501	6.6
NEW AU266-50-30□□-□□	265.9	501	301	5.0
NEW AU266-50-36□□-□□	265.9	501	361	5.6
NEW AU266-50-43□□-□□	265.9	501	431	6.4
NEW AU266-50-50□□-□□	265.9	501	501	7.1



Conductive



- Elegantly designed aluminium enclosure with easily detachable front/rear panels.
Captive screws allow for ease of maintenance as there is little risk of the screws dropping out and getting lost.
- The inner surface is unfinished, allowing the enclosure to be conductive.
- A large selection of 387 different sizes and 2 colors to choose from.
- Suitable for use as measuring instrument, controller, industrial embedded computer, power supply, audio amplifier, and more.
- Feet is selectable from adhesive rubber and aluminium types.

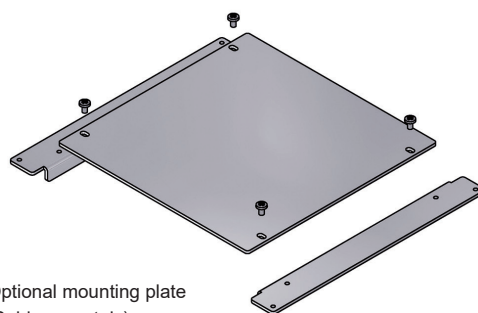


Included screws

- Top / Bottom cover
M3-5 original trapezoid head (plus / hex) & Nickel plated x 8~16 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Rubber feet / Aluminium feet
M4-8 bind head & Black trivalent chromate x 4 pcs
- Panel
Captive M2.5-7 pan head & Nickel plated x 8~12 pcs

Recommended torque : $\begin{cases} \text{M2.5 : } 0.15 \sim 0.2 \text{ N} \cdot \text{m} \\ \text{M3 / M4 : } 0.3 \sim 0.6 \text{ N} \cdot \text{m} \end{cases}$

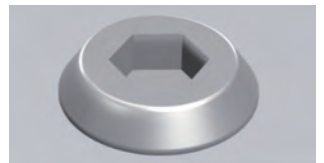
* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Panel	2	Aluminium A1100P	Silver / Painted (Conductive inside)
5	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
7	Rubber feet : Aluminium feet	4	TPE (Elastomer) : Aluminium	Black : Silver / Anodized

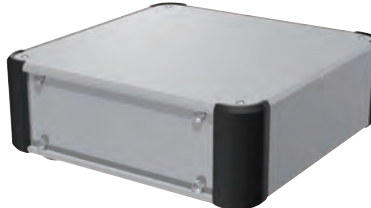
To select Feet, Screw, and Color, follow steps **1** ~ **3** to determine product number.

1 Feet**R Rubber** (Black)**A Aluminium** (Silver / Anodized)**2 Screw****P Plus** (Silver / Nickel plated)**H Hex** (Silver / Nickel plated)

Hex wrench included.

3 Color

Please choose from the color combinations listed below.

S S**S B****Product Number**

To determine a product number, fill H-W-D dimensions and select Feet, Screw, and Color code in the following blank boxes.

AUP

--

H-W-D dimensions

See page 251~254 for dimensions and product no.

1 Feet

R or A

2 Screw

P or H

3 Color

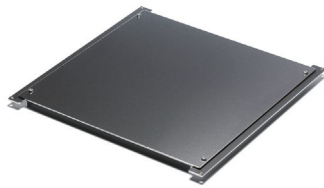
SS or SB

Numbering example :

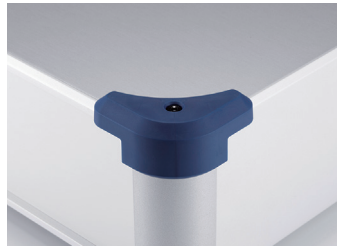
If looking at "H88 x W300 x D200mm, Feet type A, Screw type H, Color type SB"

➔ **AUP 88-30-20 AH-SB**

Accessories (Optional parts)



Mounting plate AUC series
See page 293 ~ 294



Corner guard AUCG series
See page 294

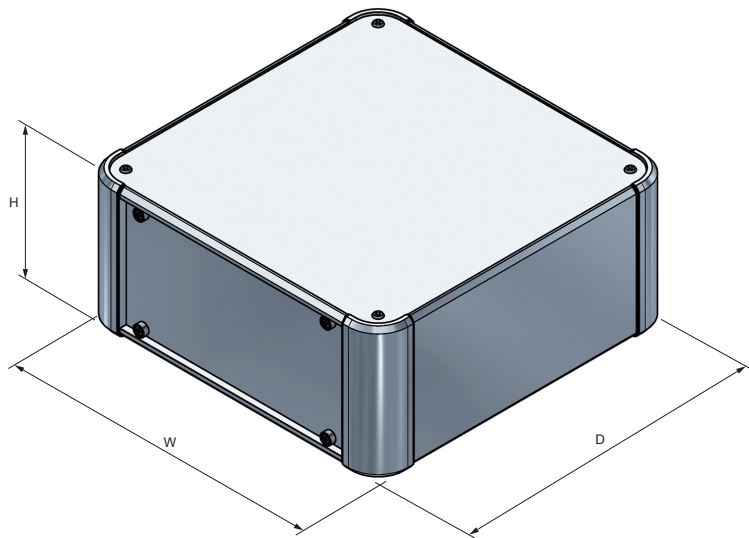


Elastomer carrying handle FM200
See website



Tilt leg TLW series
See page 239

AUP dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

■ Feet is selectable from rubber and aluminium types.
※Rubber and aluminium feet height are different.

Rubber Feet



Aluminium Feet



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUP 66-16-16□□-□□	66	160	160	0.9
AUP 66-16-20□□-□□	66	160	200	1.0
AUP 66-16-25□□-□□	66	160	250	1.2
AUP 66-16-30□□-□□	66	160	300	1.3
AUP 66-16-36□□-□□	66	160	360	1.5
AUP 66-16-43□□-□□	66	160	430	1.7
AUP 66-20-16□□-□□	66	200	160	1.0
AUP 66-20-20□□-□□	66	200	200	1.2
AUP 66-20-25□□-□□	66	200	250	1.4
AUP 66-20-30□□-□□	66	200	300	1.5
AUP 66-20-36□□-□□	66	200	360	1.7
AUP 66-20-43□□-□□	66	200	430	2.0
AUP 66-25-16□□-□□	66	250	160	1.2
AUP 66-25-20□□-□□	66	250	200	1.4
AUP 66-25-25□□-□□	66	250	250	1.6
AUP 66-25-30□□-□□	66	250	300	1.8
AUP 66-25-36□□-□□	66	250	360	2.0
AUP 66-25-43□□-□□	66	250	430	2.3
AUP 66-30-16□□-□□	66	300	160	1.4
AUP 66-30-20□□-□□	66	300	200	1.5
AUP 66-30-25□□-□□	66	300	250	1.8
AUP 66-30-30□□-□□	66	300	300	2.0

Product no.	H	W	D	Weight (kg)
AUP 66-30-36□□-□□	66	300	360	2.3
AUP 66-30-43□□-□□	66	300	430	2.6
AUP 66-30-50□□-□□	66	300	500	3.0
AUP 66-36-16□□-□□	66	360	160	1.6
AUP 66-36-20□□-□□	66	360	200	1.8
AUP 66-36-25□□-□□	66	360	250	2.0
AUP 66-36-30□□-□□	66	360	300	2.3
AUP 66-36-36□□-□□	66	360	360	2.6
AUP 66-36-43□□-□□	66	360	430	3.0
AUP 66-36-50□□-□□	66	360	500	3.4
AUP 66-43-16□□-□□	66	430	160	1.8
AUP 66-43-20□□-□□	66	430	200	2.1
AUP 66-43-25□□-□□	66	430	250	2.4
AUP 66-43-30□□-□□	66	430	300	2.7
AUP 66-43-36□□-□□	66	430	360	3.0
AUP 66-43-43□□-□□	66	430	430	3.4
AUP 66-43-50□□-□□	66	430	500	3.9
AUP 66-50-30□□-□□	66	500	300	3.0
AUP 66-50-36□□-□□	66	500	360	3.4
AUP 66-50-43□□-□□	66	500	430	3.9
AUP 66-50-50□□-□□	66	500	500	4.3

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUP 88-16-16□□-□□	88	160	160	1.0
AUP 88-16-20□□-□□	88	160	200	1.2
AUP 88-16-25□□-□□	88	160	250	1.3
AUP 88-16-30□□-□□	88	160	300	1.5
AUP 88-16-36□□-□□	88	160	360	1.7
AUP 88-16-43□□-□□	88	160	430	2.0
AUP 88-20-16□□-□□	88	200	160	1.2
AUP 88-20-20□□-□□	88	200	200	1.3
AUP 88-20-25□□-□□	88	200	250	1.5
AUP 88-20-30□□-□□	88	200	300	1.7
AUP 88-20-36□□-□□	88	200	360	1.9
AUP 88-20-43□□-□□	88	200	430	2.2
AUP 88-25-16□□-□□	88	250	160	1.3
AUP 88-25-20□□-□□	88	250	200	1.5
AUP 88-25-25□□-□□	88	250	250	1.7
AUP 88-25-30□□-□□	88	250	300	1.9
AUP 88-25-36□□-□□	88	250	360	2.2
AUP 88-25-43□□-□□	88	250	430	2.5
AUP 88-30-16□□-□□	88	300	160	1.5
AUP 88-30-20□□-□□	88	300	200	1.7
AUP 88-30-25□□-□□	88	300	250	1.9
AUP 88-30-30□□-□□	88	300	300	2.2
AUP 88-30-36□□-□□	88	300	360	2.5
AUP 88-30-43□□-□□	88	300	430	2.9
AUP 88-30-50□□-□□	88	300	500	3.2
AUP 88-36-16□□-□□	88	360	160	1.7
AUP 88-36-20□□-□□	88	360	200	1.9
AUP 88-36-25□□-□□	88	360	250	2.2
AUP 88-36-30□□-□□	88	360	300	2.5
AUP 88-36-36□□-□□	88	360	360	2.8
AUP 88-36-43□□-□□	88	360	430	3.2
AUP 88-36-50□□-□□	88	360	500	3.6
AUP 88-43-16□□-□□	88	430	160	2.0
AUP 88-43-20□□-□□	88	430	200	2.2
AUP 88-43-25□□-□□	88	430	250	2.5
AUP 88-43-30□□-□□	88	430	300	2.9
AUP 88-43-36□□-□□	88	430	360	3.2
AUP 88-43-43□□-□□	88	430	430	3.7
AUP 88-43-50□□-□□	88	430	500	4.1
AUP 88-50-30□□-□□	88	500	300	3.2
AUP 88-50-36□□-□□	88	500	360	3.6
AUP 88-50-43□□-□□	88	500	430	4.1
AUP 88-50-50□□-□□	88	500	500	4.6
NEW AUP 99-16-16□□-□□	99	160	160	1.0
NEW AUP 99-16-20□□-□□	99	160	200	1.1
NEW AUP 99-16-25□□-□□	99	160	250	1.3
NEW AUP 99-16-30□□-□□	99	160	300	1.5
NEW AUP 99-16-36□□-□□	99	160	360	1.7
NEW AUP 99-16-43□□-□□	99	160	430	2.0
NEW AUP 99-20-16□□-□□	99	200	160	1.1
NEW AUP 99-20-20□□-□□	99	200	200	1.3
NEW AUP 99-20-25□□-□□	99	200	250	1.5
NEW AUP 99-20-30□□-□□	99	200	300	1.7
NEW AUP 99-20-36□□-□□	99	200	360	1.9
NEW AUP 99-20-43□□-□□	99	200	430	2.2
NEW AUP 99-25-16□□-□□	99	250	160	1.3
NEW AUP 99-25-20□□-□□	99	250	200	1.5
NEW AUP 99-25-25□□-□□	99	250	250	1.7
NEW AUP 99-25-30□□-□□	99	250	300	2.0
NEW AUP 99-25-36□□-□□	99	250	360	2.2
NEW AUP 99-25-43□□-□□	99	250	430	2.6
NEW AUP 99-30-16□□-□□	99	300	160	1.5
NEW AUP 99-30-20□□-□□	99	300	200	1.7
NEW AUP 99-30-25□□-□□	99	300	250	2.0
NEW AUP 99-30-30□□-□□	99	300	300	2.2

Product no.	H	W	D	Weight (kg)
NEW AUP 99-30-36□□-□□	99	300	360	2.5
NEW AUP 99-30-43□□-□□	99	300	430	2.9
NEW AUP 99-30-50□□-□□	99	300	500	3.2
NEW AUP 99-36-16□□-□□	99	360	160	1.7
NEW AUP 99-36-20□□-□□	99	360	200	1.9
NEW AUP 99-36-25□□-□□	99	360	250	2.2
NEW AUP 99-36-30□□-□□	99	360	300	2.5
NEW AUP 99-36-36□□-□□	99	360	360	2.9
NEW AUP 99-36-43□□-□□	99	360	430	3.3
NEW AUP 99-36-50□□-□□	99	360	500	3.7
NEW AUP 99-43-16□□-□□	99	430	160	2.0
NEW AUP 99-43-20□□-□□	99	430	200	2.3
NEW AUP 99-43-25□□-□□	99	430	250	2.6
NEW AUP 99-43-30□□-□□	99	430	300	2.9
NEW AUP 99-43-36□□-□□	99	430	360	3.3
NEW AUP 99-43-43□□-□□	99	430	430	3.7
NEW AUP 99-43-50□□-□□	99	430	500	4.2
NEW AUP 99-50-30□□-□□	99	500	300	3.3
NEW AUP 99-50-36□□-□□	99	500	360	3.7
NEW AUP 99-50-43□□-□□	99	500	430	4.2
NEW AUP 99-50-50□□-□□	99	500	500	4.7
NEW AUP115-16-16□□-□□	115	160	160	1.1
NEW AUP115-16-20□□-□□	115	160	200	1.2
NEW AUP115-16-25□□-□□	115	160	250	1.4
NEW AUP115-16-30□□-□□	115	160	300	1.6
NEW AUP115-16-36□□-□□	115	160	360	1.8
NEW AUP115-16-43□□-□□	115	160	430	2.1
NEW AUP115-20-16□□-□□	115	200	160	1.2
NEW AUP115-20-20□□-□□	115	200	200	1.4
NEW AUP115-20-25□□-□□	115	200	250	1.6
NEW AUP115-20-30□□-□□	115	200	300	1.8
NEW AUP115-20-36□□-□□	115	200	360	2.1
NEW AUP115-20-43□□-□□	115	200	430	2.4
NEW AUP115-25-16□□-□□	115	250	160	1.4
NEW AUP115-25-20□□-□□	115	250	200	1.6
NEW AUP115-25-25□□-□□	115	250	250	1.8
NEW AUP115-25-30□□-□□	115	250	300	2.1
NEW AUP115-25-36□□-□□	115	250	360	2.4
NEW AUP115-25-43□□-□□	115	250	430	2.7
NEW AUP115-30-16□□-□□	115	300	160	1.6
NEW AUP115-30-20□□-□□	115	300	200	1.8
NEW AUP115-30-25□□-□□	115	300	250	2.1
NEW AUP115-30-30□□-□□	115	300	300	2.3
NEW AUP115-30-36□□-□□	115	300	360	2.7
NEW AUP115-30-43□□-□□	115	300	430	3.1
NEW AUP115-30-50□□-□□	115	300	500	3.4
NEW AUP115-36-16□□-□□	115	360	160	1.8
NEW AUP115-36-20□□-□□	115	360	200	2.1
NEW AUP115-36-25□□-□□	115	360	250	2.4
NEW AUP115-36-30□□-□□	115	360	300	2.7
NEW AUP115-36-36□□-□□	115	360	360	3.0
NEW AUP115-36-43□□-□□	115	360	430	3.5
NEW AUP115-36-50□□-□□	115	360	500	3.9
NEW AUP115-43-16□□-□□	115	430	160	2.1
NEW AUP115-43-20□□-□□	115	430	200	2.4
NEW AUP115-43-25□□-□□	115	430	250	2.7
NEW AUP115-43-30□□-□□	115	430	300	3.1
NEW AUP115-43-36□□-□□	115	430	360	3.5
NEW AUP115-43-43□□-□□	115	430	430	3.9
NEW AUP115-43-50□□-□□	115	430	500	4.4
NEW AUP115-50-30□□-□□	115	500	300	3.4
NEW AUP115-50-36□□-□□	115	500	360	3.9
NEW AUP115-50-43□□-□□	115	500	430	4.4
NEW AUP115-50-50□□-□□	115	500	500	4.9

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUP133-16-16□□-□□	132.5	160	160	1.3
AUP133-16-20□□-□□	132.5	160	200	1.4
AUP133-16-25□□-□□	132.5	160	250	1.7
AUP133-16-30□□-□□	132.5	160	300	1.9
AUP133-16-36□□-□□	132.5	160	360	2.2
AUP133-16-43□□-□□	132.5	160	430	2.5
AUP133-20-16□□-□□	132.5	200	160	1.4
AUP133-20-20□□-□□	132.5	200	200	1.6
AUP133-20-25□□-□□	132.5	200	250	1.8
AUP133-20-30□□-□□	132.5	200	300	2.1
AUP133-20-36□□-□□	132.5	200	360	2.4
AUP133-20-43□□-□□	132.5	200	430	2.7
AUP133-25-16□□-□□	132.5	250	160	1.6
AUP133-25-20□□-□□	132.5	250	200	1.8
AUP133-25-25□□-□□	132.5	250	250	2.1
AUP133-25-30□□-□□	132.5	250	300	2.4
AUP133-25-36□□-□□	132.5	250	360	2.7
AUP133-25-43□□-□□	132.5	250	430	3.1
AUP133-30-16□□-□□	132.5	300	160	1.8
AUP133-30-20□□-□□	132.5	300	200	2.0
AUP133-30-25□□-□□	132.5	300	250	2.3
AUP133-30-30□□-□□	132.5	300	300	2.6
AUP133-30-36□□-□□	132.5	300	360	3.0
AUP133-30-43□□-□□	132.5	300	430	3.4
AUP133-30-50□□-□□	132.5	300	500	3.8
AUP133-36-16□□-□□	132.5	360	160	2.1
AUP133-36-20□□-□□	132.5	360	200	2.3
AUP133-36-25□□-□□	132.5	360	250	2.6
AUP133-36-30□□-□□	132.5	360	300	3.0
AUP133-36-36□□-□□	132.5	360	360	3.3
AUP133-36-43□□-□□	132.5	360	430	3.8
AUP133-36-50□□-□□	132.5	360	500	4.3
AUP133-43-16□□-□□	132.5	430	160	2.4
AUP133-43-20□□-□□	132.5	430	200	2.6
AUP133-43-25□□-□□	132.5	430	250	3.0
AUP133-43-30□□-□□	132.5	430	300	3.4
AUP133-43-36□□-□□	132.5	430	360	3.8
AUP133-43-43□□-□□	132.5	430	430	4.3
AUP133-43-50□□-□□	132.5	430	500	4.8
AUP133-50-30□□-□□	132.5	500	300	3.8
AUP133-50-36□□-□□	132.5	500	360	4.2
AUP133-50-43□□-□□	132.5	500	430	4.8
AUP133-50-50□□-□□	132.5	500	500	5.3
NEW AUP149-16-16□□-□□	149	160	160	1.3
NEW AUP149-16-20□□-□□	149	160	200	1.5
NEW AUP149-16-25□□-□□	149	160	250	1.7
NEW AUP149-16-30□□-□□	149	160	300	1.9
NEW AUP149-16-36□□-□□	149	160	360	2.2
NEW AUP149-16-43□□-□□	149	160	430	2.5
NEW AUP149-20-16□□-□□	149	200	160	1.4
NEW AUP149-20-20□□-□□	149	200	200	1.6
NEW AUP149-20-25□□-□□	149	200	250	1.9
NEW AUP149-20-30□□-□□	149	200	300	2.1
NEW AUP149-20-36□□-□□	149	200	360	2.4
NEW AUP149-20-43□□-□□	149	200	430	2.8
NEW AUP149-25-16□□-□□	149	250	160	1.6
NEW AUP149-25-20□□-□□	149	250	200	1.9
NEW AUP149-25-25□□-□□	149	250	250	2.1
NEW AUP149-25-30□□-□□	149	250	300	2.4
NEW AUP149-25-36□□-□□	149	250	360	2.8
NEW AUP149-25-43□□-□□	149	250	430	3.2
NEW AUP149-30-16□□-□□	149	300	160	1.9
NEW AUP149-30-20□□-□□	149	300	200	2.1
NEW AUP149-30-25□□-□□	149	300	250	2.4
NEW AUP149-30-30□□-□□	149	300	300	2.7

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUP149-30-36□□-□□	149	300	360	3.1
NEW AUP149-30-43□□-□□	149	300	430	3.5
NEW AUP149-30-50□□-□□	149	300	500	4.0
NEW AUP149-36-16□□-□□	149	360	160	2.1
NEW AUP149-36-20□□-□□	149	360	200	2.4
NEW AUP149-36-25□□-□□	149	360	250	2.7
NEW AUP149-36-30□□-□□	149	360	300	3.0
NEW AUP149-36-36□□-□□	149	360	360	3.4
NEW AUP149-36-43□□-□□	149	360	430	4.0
NEW AUP149-36-50□□-□□	149	360	500	4.4
NEW AUP149-43-16□□-□□	149	430	160	2.4
NEW AUP149-43-20□□-□□	149	430	200	2.7
NEW AUP149-43-25□□-□□	149	430	250	3.1
NEW AUP149-43-30□□-□□	149	430	300	3.5
NEW AUP149-43-36□□-□□	149	430	360	3.9
NEW AUP149-43-43□□-□□	149	430	430	4.4
NEW AUP149-43-50□□-□□	149	430	500	5.0
NEW AUP149-50-30□□-□□	149	500	300	3.9
NEW AUP149-50-36□□-□□	149	500	360	4.4
NEW AUP149-50-43□□-□□	149	500	430	4.9
NEW AUP149-50-50□□-□□	149	500	500	5.5
AUP177-16-16□□-□□	177	160	160	1.4
AUP177-16-20□□-□□	177	160	200	1.6
AUP177-16-25□□-□□	177	160	250	1.9
AUP177-16-30□□-□□	177	160	300	2.1
AUP177-16-36□□-□□	177	160	360	2.4
AUP177-16-43□□-□□	177	160	430	2.8
AUP177-20-16□□-□□	177	200	160	1.6
AUP177-20-20□□-□□	177	200	200	1.8
AUP177-20-25□□-□□	177	200	250	2.1
AUP177-20-30□□-□□	177	200	300	2.4
AUP177-20-36□□-□□	177	200	360	2.7
AUP177-20-43□□-□□	177	200	430	3.1
AUP177-25-16□□-□□	177	250	160	1.8
AUP177-25-20□□-□□	177	250	200	2.1
AUP177-25-25□□-□□	177	250	250	2.4
AUP177-25-30□□-□□	177	250	300	2.7
AUP177-25-36□□-□□	177	250	360	3.0
AUP177-25-43□□-□□	177	250	430	3.5
AUP177-30-16□□-□□	177	300	160	2.0
AUP177-30-20□□-□□	177	300	200	2.3
AUP177-30-25□□-□□	177	300	250	2.6
AUP177-30-30□□-□□	177	300	300	3.0
AUP177-30-36□□-□□	177	300	360	3.3
AUP177-30-43□□-□□	177	300	430	3.8
AUP177-30-50□□-□□	177	300	500	4.3
AUP177-36-16□□-□□	177	360	160	2.3
AUP177-36-20□□-□□	177	360	200	2.6
AUP177-36-25□□-□□	177	360	250	3.0
AUP177-36-30□□-□□	177	360	300	3.3
AUP177-36-36□□-□□	177	360	360	3.7
AUP177-36-43□□-□□	177	360	430	4.3
AUP177-36-50□□-□□	177	360	500	4.8
AUP177-43-16□□-□□	177	430	160	2.6
AUP177-43-20□□-□□	177	430	200	3.0
AUP177-43-25□□-□□	177	430	250	3.4
AUP177-43-30□□-□□	177	430	300	3.8
AUP177-43-36□□-□□	177	430	360	4.2
AUP177-43-43□□-□□	177	430	430	4.8
AUP177-43-50□□-□□	177	430	500	5.4
AUP177-50-30□□-□□	177	500	300	4.2
AUP177-50-36□□-□□	177	500	360	4.7
AUP177-50-43□□-□□	177	500	430	5.3
AUP177-50-50□□-□□	177	500	500	5.9

Product no. / Details

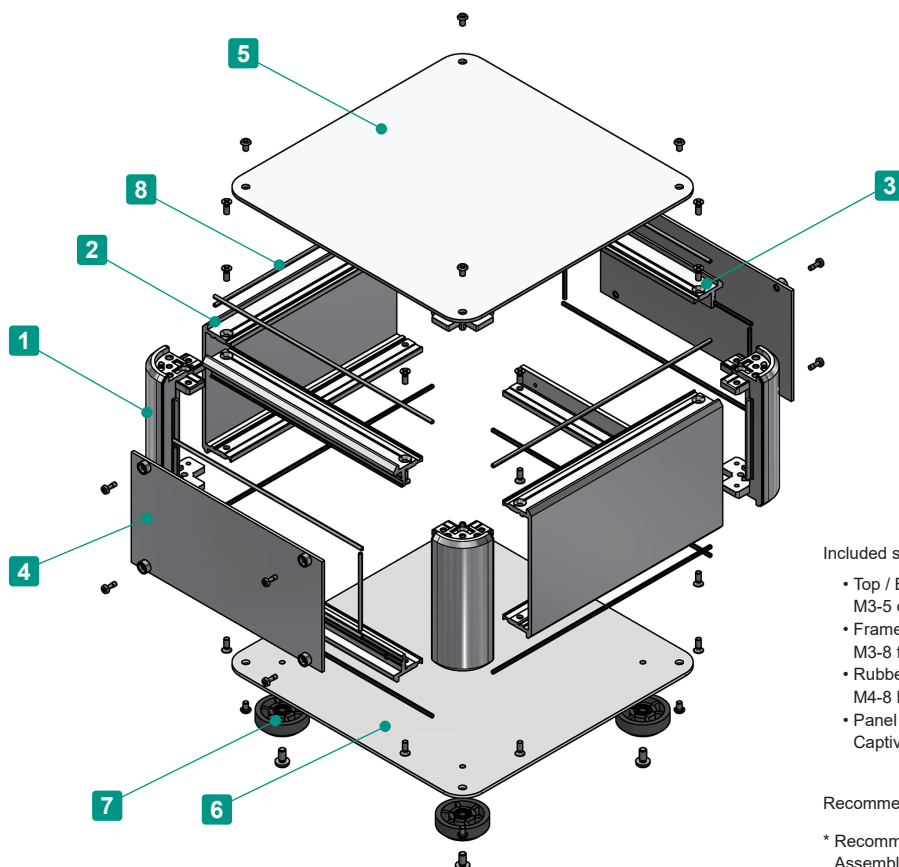
■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUP222-16-16□□-□□	221.5	161	161	1.7
NEW AUP222-16-20□□-□□	221.5	161	201	1.9
NEW AUP222-16-25□□-□□	221.5	161	251	2.2
NEW AUP222-16-30□□-□□	221.5	161	301	2.5
NEW AUP222-16-36□□-□□	221.5	161	361	2.8
NEW AUP222-16-43□□-□□	221.5	161	431	3.2
NEW AUP222-20-16□□-□□	221.5	201	161	1.9
NEW AUP222-20-20□□-□□	221.5	201	201	2.1
NEW AUP222-20-25□□-□□	221.5	201	251	2.4
NEW AUP222-20-30□□-□□	221.5	201	301	2.7
NEW AUP222-20-36□□-□□	221.5	201	361	3.1
NEW AUP222-20-43□□-□□	221.5	201	431	3.6
NEW AUP222-25-16□□-□□	221.5	251	161	2.1
NEW AUP222-25-20□□-□□	221.5	251	201	2.4
NEW AUP222-25-25□□-□□	221.5	251	251	2.7
NEW AUP222-25-30□□-□□	221.5	251	301	3.0
NEW AUP222-25-36□□-□□	221.5	251	361	3.4
NEW AUP222-25-43□□-□□	221.5	251	431	3.9
NEW AUP222-30-16□□-□□	221.5	301	161	2.3
NEW AUP222-30-20□□-□□	221.5	301	201	2.6
NEW AUP222-30-25□□-□□	221.5	301	251	3.0
NEW AUP222-30-30□□-□□	221.5	301	301	3.4
NEW AUP222-30-36□□-□□	221.5	301	361	3.8
NEW AUP222-30-43□□-□□	221.5	301	431	4.3
NEW AUP222-30-50□□-□□	221.5	301	501	4.8
NEW AUP222-36-16□□-□□	221.5	361	161	2.6
NEW AUP222-36-20□□-□□	221.5	361	201	3.0
NEW AUP222-36-25□□-□□	221.5	361	251	3.4
NEW AUP222-36-30□□-□□	221.5	361	301	3.7
NEW AUP222-36-36□□-□□	221.5	361	361	4.2
NEW AUP222-36-43□□-□□	221.5	361	431	4.8
NEW AUP222-36-50□□-□□	221.5	361	501	5.4
NEW AUP222-43-16□□-□□	221.5	431	161	3.0
NEW AUP222-43-20□□-□□	221.5	431	201	3.4
NEW AUP222-43-25□□-□□	221.5	431	251	3.8
NEW AUP222-43-30□□-□□	221.5	431	301	4.2
NEW AUP222-43-36□□-□□	221.5	431	361	4.7
NEW AUP222-43-43□□-□□	221.5	431	431	5.4
NEW AUP222-43-50□□-□□	221.5	431	501	6.0
NEW AUP222-50-30□□-□□	221.5	501	301	4.7
NEW AUP222-50-36□□-□□	221.5	501	361	5.2
NEW AUP222-50-43□□-□□	221.5	501	431	5.9
NEW AUP222-50-50□□-□□	221.5	501	501	6.6

Product no.	H	W	D	Weight (kg)
NEW AUP266-16-16□□-□□	265.9	161	161	2.0
NEW AUP266-16-20□□-□□	265.9	161	201	2.3
NEW AUP266-16-25□□-□□	265.9	161	251	2.6
NEW AUP266-16-30□□-□□	265.9	161	301	3.0
NEW AUP266-16-36□□-□□	265.9	161	361	3.4
NEW AUP266-16-43□□-□□	265.9	161	431	3.9
NEW AUP266-20-16□□-□□	265.9	201	161	2.2
NEW AUP266-20-20□□-□□	265.9	201	201	2.5
NEW AUP266-20-25□□-□□	265.9	201	251	2.9
NEW AUP266-20-30□□-□□	265.9	201	301	3.2
NEW AUP266-20-36□□-□□	265.9	201	361	3.7
NEW AUP266-20-43□□-□□	265.9	201	431	4.3
NEW AUP266-25-16□□-□□	265.9	251	161	2.5
NEW AUP266-25-20□□-□□	265.9	251	201	2.8
NEW AUP266-25-25□□-□□	265.9	251	251	3.2
NEW AUP266-25-30□□-□□	265.9	251	301	3.6
NEW AUP266-25-36□□-□□	265.9	251	361	4.1
NEW AUP266-25-43□□-□□	265.9	251	431	4.7
NEW AUP266-30-16□□-□□	265.9	301	161	2.7
NEW AUP266-30-20□□-□□	265.9	301	201	3.1
NEW AUP266-30-25□□-□□	265.9	301	251	3.5
NEW AUP266-30-30□□-□□	265.9	301	301	3.9
NEW AUP266-30-36□□-□□	265.9	301	361	4.5
NEW AUP266-30-43□□-□□	265.9	301	431	5.1
NEW AUP266-30-50□□-□□	265.9	301	501	5.7
NEW AUP266-36-16□□-□□	265.9	361	161	3.0
NEW AUP266-36-20□□-□□	265.9	361	201	3.4
NEW AUP266-36-25□□-□□	265.9	361	251	3.9
NEW AUP266-36-30□□-□□	265.9	361	301	4.3
NEW AUP266-36-36□□-□□	265.9	361	361	4.9
NEW AUP266-36-43□□-□□	265.9	361	431	5.6
NEW AUP266-36-50□□-□□	265.9	361	501	6.2
NEW AUP266-43-16□□-□□	265.9	431	161	3.4
NEW AUP266-43-20□□-□□	265.9	431	201	3.9
NEW AUP266-43-25□□-□□	265.9	431	251	4.4
NEW AUP266-43-30□□-□□	265.9	431	301	4.9
NEW AUP266-43-36□□-□□	265.9	431	361	5.5
NEW AUP266-43-43□□-□□	265.9	431	431	6.2
NEW AUP266-43-50□□-□□	265.9	431	501	6.9
NEW AUP266-50-30□□-□□	265.9	501	301	5.3
NEW AUP266-50-36□□-□□	265.9	501	361	6.0
NEW AUP266-50-43□□-□□	265.9	501	431	6.7
NEW AUP266-50-50□□-□□	265.9	501	501	7.5



- Elegantly designed EMC shielded aluminium enclosure with detachable front / rear panels.
- Suitable to be used as an easy maintenance desktop case due to its detachable front / rear panels.
Captive screws allow for ease of maintenance as there is little risk of the screws dropping out and getting lost.
- A large selection of 387 different sizes and 2 colors to choose from.
- Suitable for use as measuring instrument, controller, industrial embedded computer, power supply, audio amplifier, and more.
- Feet is selectable from adhesive rubber and aluminium types.



Included screws

- Top / Bottom cover
M3-5 original trapezoid head (plus / hex) & Nickel plated x 8~16 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Rubber feet / Aluminium feet
M4-8 blind head & Black trivalent chromate x 4 pcs
- Panel
Captive M2.5-7 pan head & Nickel plated x 8 ~ 12 pcs

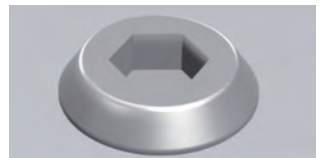
Recommended torque : $\begin{cases} \text{M2.5 : } 0.15 \sim 0.2 \text{ N} \cdot \text{m} \\ \text{M3 / M4 : } 0.3 \sim 0.6 \text{ N} \cdot \text{m} \end{cases}$

* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Panel	2	Aluminium A1100P	Silver / Painted (Conductive inside)
5	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
7	Rubber feet : Aluminium feet	4	TPE (Elastomer) : Aluminium	Black : Silver / Anodized
8	EMC shielding gasket	16	Conductive fiber UL94V-0	Metallic gray

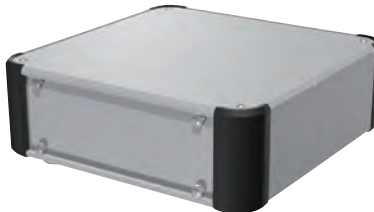
To select Feet, Screw, and Color, follow steps **1** ~ **3** to determine product number.

1 Feet**R Rubber** (Black)**A Aluminium** (Silver / Anodized)**2 Screw****P Plus** (Silver / Nickel plated)**H Hex** (Silver / Nickel plated)

Hex wrench included.

3 Color

Please choose from the color combinations listed below.

S S**S B****Product Number**

To determine a product number, fill H-W-D dimensions and select Feet, Screw, and Color code in the following blank boxes.

AUPE

-

-

H-W-D dimensions

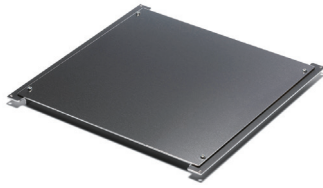
See page 257~260 for dimensions and product no.

1 Feet 2 Screw**R or A P or H****3 Color****SS or SB****Numbering example :**

If looking at "H132.5 x W300 x D200mm, Feet type A, Screw type H, Color type SS"

➔ **AUPE 133-30-20 AH-SS**

Accessories (Optional parts)



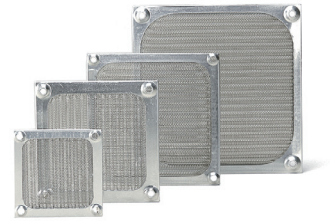
Mounting plate AUC series
See page 293 ~ 294



Elastomer carrying handle FM200
See website

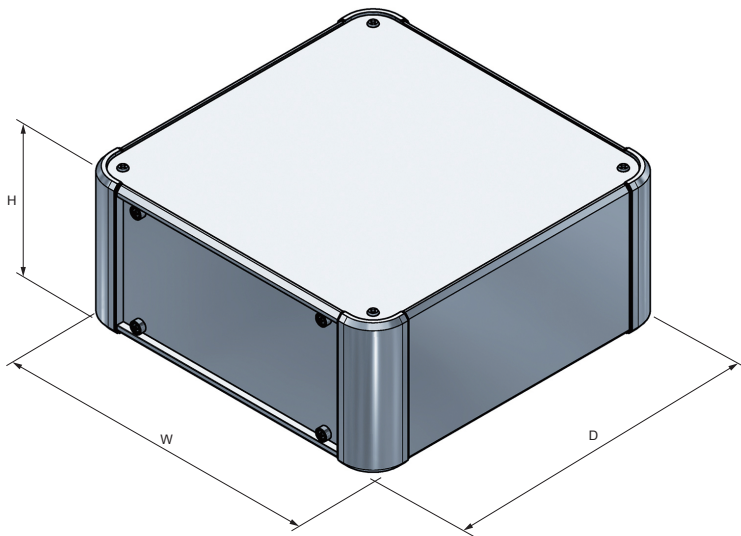


Tilt leg TLW series
See page 239



EMC shielding fan filter EMF series
See website

AUPE dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

■ Feet is selectable from rubber and aluminium types.
※Rubber and aluminium feet height are different.

Rubber Feet



Aluminium Feet



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUPE 66-16-16□□-□□	66	160	160	0.9
AUPE 66-16-20□□-□□	66	160	200	1.0
AUPE 66-16-25□□-□□	66	160	250	1.2
AUPE 66-16-30□□-□□	66	160	300	1.4
AUPE 66-16-36□□-□□	66	160	360	1.5
AUPE 66-16-43□□-□□	66	160	430	1.8
AUPE 66-20-16□□-□□	66	200	160	1.0
AUPE 66-20-20□□-□□	66	200	200	1.2
AUPE 66-20-25□□-□□	66	200	250	1.4
AUPE 66-20-30□□-□□	66	200	300	1.5
AUPE 66-20-36□□-□□	66	200	360	1.8
AUPE 66-20-43□□-□□	66	200	430	2.0
AUPE 66-25-16□□-□□	66	250	160	1.2
AUPE 66-25-20□□-□□	66	250	200	1.4
AUPE 66-25-25□□-□□	66	250	250	1.6
AUPE 66-25-30□□-□□	66	250	300	1.8
AUPE 66-25-36□□-□□	66	250	360	2.0
AUPE 66-25-43□□-□□	66	250	430	2.3
AUPE 66-30-16□□-□□	66	300	160	1.4
AUPE 66-30-20□□-□□	66	300	200	1.6
AUPE 66-30-25□□-□□	66	300	250	1.8
AUPE 66-30-30□□-□□	66	300	300	2.0

Product no.	H	W	D	Weight (kg)
AUPE 66-30-36□□-□□	66	300	360	2.3
AUPE 66-30-43□□-□□	66	300	430	2.6
AUPE 66-30-50□□-□□	66	300	500	3.0
AUPE 66-36-16□□-□□	66	360	160	1.6
AUPE 66-36-20□□-□□	66	360	200	1.8
AUPE 66-36-25□□-□□	66	360	250	2.0
AUPE 66-36-30□□-□□	66	360	300	2.3
AUPE 66-36-36□□-□□	66	360	360	2.6
AUPE 66-36-43□□-□□	66	360	430	3.0
AUPE 66-36-50□□-□□	66	360	500	3.4
AUPE 66-43-16□□-□□	66	430	160	1.8
AUPE 66-43-20□□-□□	66	430	200	2.1
AUPE 66-43-25□□-□□	66	430	250	2.4
AUPE 66-43-30□□-□□	66	430	300	2.7
AUPE 66-43-36□□-□□	66	430	360	3.0
AUPE 66-43-43□□-□□	66	430	430	3.4
AUPE 66-43-50□□-□□	66	430	500	3.9
AUPE 66-50-30□□-□□	66	500	300	3.0
AUPE 66-50-36□□-□□	66	500	360	3.4
AUPE 66-50-43□□-□□	66	500	430	3.9
AUPE 66-50-50□□-□□	66	500	500	4.3

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUPE 88-16-16□□-□□	88	160	160	1.0
AUPE 88-16-20□□-□□	88	160	200	1.2
AUPE 88-16-25□□-□□	88	160	250	1.3
AUPE 88-16-30□□-□□	88	160	300	1.5
AUPE 88-16-36□□-□□	88	160	360	1.7
AUPE 88-16-43□□-□□	88	160	430	2.0
AUPE 88-20-16□□-□□	88	200	160	1.2
AUPE 88-20-20□□-□□	88	200	200	1.3
AUPE 88-20-25□□-□□	88	200	250	1.5
AUPE 88-20-30□□-□□	88	200	300	1.7
AUPE 88-20-36□□-□□	88	200	360	1.9
AUPE 88-20-43□□-□□	88	200	430	2.2
AUPE 88-25-16□□-□□	88	250	160	1.3
AUPE 88-25-20□□-□□	88	250	200	1.5
AUPE 88-25-25□□-□□	88	250	250	1.7
AUPE 88-25-30□□-□□	88	250	300	1.9
AUPE 88-25-36□□-□□	88	250	360	2.2
AUPE 88-25-43□□-□□	88	250	430	2.5
AUPE 88-30-16□□-□□	88	300	160	1.5
AUPE 88-30-20□□-□□	88	300	200	1.7
AUPE 88-30-25□□-□□	88	300	250	1.9
AUPE 88-30-30□□-□□	88	300	300	2.2
AUPE 88-30-36□□-□□	88	300	360	2.5
AUPE 88-30-43□□-□□	88	300	430	2.9
AUPE 88-30-50□□-□□	88	300	500	3.2
AUPE 88-36-16□□-□□	88	360	160	1.7
AUPE 88-36-20□□-□□	88	360	200	1.9
AUPE 88-36-25□□-□□	88	360	250	2.2
AUPE 88-36-30□□-□□	88	360	300	2.5
AUPE 88-36-36□□-□□	88	360	360	2.8
AUPE 88-36-43□□-□□	88	360	430	3.2
AUPE 88-36-50□□-□□	88	360	500	3.6
AUPE 88-43-16□□-□□	88	430	160	2.0
AUPE 88-43-20□□-□□	88	430	200	2.2
AUPE 88-43-25□□-□□	88	430	250	2.6
AUPE 88-43-30□□-□□	88	430	300	2.9
AUPE 88-43-36□□-□□	88	430	360	3.3
AUPE 88-43-43□□-□□	88	430	430	3.7
AUPE 88-43-50□□-□□	88	430	500	4.1
AUPE 88-50-30□□-□□	88	500	300	3.2
AUPE 88-50-36□□-□□	88	500	360	3.6
AUPE 88-50-43□□-□□	88	500	430	4.1
AUPE 88-50-50□□-□□	88	500	500	4.6
NEW AUPE 99-16-16□□-□□	99	160	160	1.0
NEW AUPE 99-16-20□□-□□	99	160	200	1.1
NEW AUPE 99-16-25□□-□□	99	160	250	1.3
NEW AUPE 99-16-30□□-□□	99	160	300	1.5
NEW AUPE 99-16-36□□-□□	99	160	360	1.7
NEW AUPE 99-16-43□□-□□	99	160	430	2.0
NEW AUPE 99-20-16□□-□□	99	200	160	1.1
NEW AUPE 99-20-20□□-□□	99	200	200	1.3
NEW AUPE 99-20-25□□-□□	99	200	250	1.5
NEW AUPE 99-20-30□□-□□	99	200	300	1.7
NEW AUPE 99-20-36□□-□□	99	200	360	1.9
NEW AUPE 99-20-43□□-□□	99	200	430	2.3
NEW AUPE 99-25-16□□-□□	99	250	160	1.3
NEW AUPE 99-25-20□□-□□	99	250	200	1.5
NEW AUPE 99-25-25□□-□□	99	250	250	1.7
NEW AUPE 99-25-30□□-□□	99	250	300	2.0
NEW AUPE 99-25-36□□-□□	99	250	360	2.2
NEW AUPE 99-25-43□□-□□	99	250	430	2.6
NEW AUPE 99-30-16□□-□□	99	300	160	1.5
NEW AUPE 99-30-20□□-□□	99	300	200	1.7
NEW AUPE 99-30-25□□-□□	99	300	250	2.0
NEW AUPE 99-30-30□□-□□	99	300	300	2.2

Product no.	H	W	D	Weight (kg)
NEW AUPE 99-30-36□□-□□	99	300	360	2.5
NEW AUPE 99-30-43□□-□□	99	300	430	2.9
NEW AUPE 99-30-50□□-□□	99	300	500	3.3
NEW AUPE 99-36-16□□-□□	99	360	160	1.7
NEW AUPE 99-36-20□□-□□	99	360	200	1.9
NEW AUPE 99-36-25□□-□□	99	360	250	2.2
NEW AUPE 99-36-30□□-□□	99	360	300	2.5
NEW AUPE 99-36-36□□-□□	99	360	360	2.9
NEW AUPE 99-36-43□□-□□	99	360	430	3.3
NEW AUPE 99-36-50□□-□□	99	360	500	3.7
NEW AUPE 99-43-16□□-□□	99	430	160	2.0
NEW AUPE 99-43-20□□-□□	99	430	200	2.3
NEW AUPE 99-43-25□□-□□	99	430	250	2.6
NEW AUPE 99-43-30□□-□□	99	430	300	2.9
NEW AUPE 99-43-36□□-□□	99	430	360	3.3
NEW AUPE 99-43-43□□-□□	99	430	430	3.7
NEW AUPE 99-43-50□□-□□	99	430	500	4.2
NEW AUPE 99-50-30□□-□□	99	500	300	3.3
NEW AUPE 99-50-36□□-□□	99	500	360	3.7
NEW AUPE 99-50-43□□-□□	99	500	430	4.2
NEW AUPE 99-50-50□□-□□	99	500	500	4.7
NEW AUPE115-16-16□□-□□	115	160	160	1.1
NEW AUPE115-16-20□□-□□	115	160	200	1.2
NEW AUPE115-16-25□□-□□	115	160	250	1.4
NEW AUPE115-16-30□□-□□	115	160	300	1.6
NEW AUPE115-16-36□□-□□	115	160	360	1.8
NEW AUPE115-16-43□□-□□	115	160	430	2.1
NEW AUPE115-20-16□□-□□	115	200	160	1.2
NEW AUPE115-20-20□□-□□	115	200	200	1.4
NEW AUPE115-20-25□□-□□	115	200	250	1.6
NEW AUPE115-20-30□□-□□	115	200	300	1.8
NEW AUPE115-20-36□□-□□	115	200	360	2.1
NEW AUPE115-20-43□□-□□	115	200	430	2.4
NEW AUPE115-25-16□□-□□	115	250	160	1.4
NEW AUPE115-25-20□□-□□	115	250	200	1.6
NEW AUPE115-25-25□□-□□	115	250	250	1.8
NEW AUPE115-25-30□□-□□	115	250	300	2.1
NEW AUPE115-25-36□□-□□	115	250	360	2.4
NEW AUPE115-25-43□□-□□	115	250	430	2.7
NEW AUPE115-30-16□□-□□	115	300	160	1.6
NEW AUPE115-30-20□□-□□	115	300	200	1.8
NEW AUPE115-30-25□□-□□	115	300	250	2.1
NEW AUPE115-30-30□□-□□	115	300	300	2.3
NEW AUPE115-30-36□□-□□	115	300	360	2.7
NEW AUPE115-30-43□□-□□	115	300	430	3.1
NEW AUPE115-30-50□□-□□	115	300	500	3.4
NEW AUPE115-36-16□□-□□	115	360	160	1.8
NEW AUPE115-36-20□□-□□	115	360	200	2.1
NEW AUPE115-36-25□□-□□	115	360	250	2.4
NEW AUPE115-36-30□□-□□	115	360	300	2.7
NEW AUPE115-36-36□□-□□	115	360	360	3.0
NEW AUPE115-36-43□□-□□	115	360	430	3.5
NEW AUPE115-36-50□□-□□	115	360	500	3.9
NEW AUPE115-43-16□□-□□	115	430	160	2.1
NEW AUPE115-43-20□□-□□	115	430	200	2.4
NEW AUPE115-43-25□□-□□	115	430	250	2.7
NEW AUPE115-43-30□□-□□	115	430	300	3.1
NEW AUPE115-43-36□□-□□	115	430	360	3.5
NEW AUPE115-43-43□□-□□	115	430	430	3.9
NEW AUPE115-43-50□□-□□	115	430	500	4.4
NEW AUPE115-50-30□□-□□	115	500	300	3.4
NEW AUPE115-50-36□□-□□	115	500	360	3.9
NEW AUPE115-50-43□□-□□	115	500	430	4.4
NEW AUPE115-50-50□□-□□	115	500	500	4.9

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUPE133-16-16□□-□□	132.5	160	160	1.3
AUPE133-16-20□□-□□	132.5	160	200	1.4
AUPE133-16-25□□-□□	132.5	160	250	1.7
AUPE133-16-30□□-□□	132.5	160	300	1.9
AUPE133-16-36□□-□□	132.5	160	360	2.1
AUPE133-16-43□□-□□	132.5	160	430	2.5
AUPE133-20-16□□-□□	132.5	200	160	1.4
AUPE133-20-20□□-□□	132.5	200	200	1.6
AUPE133-20-25□□-□□	132.5	200	250	1.9
AUPE133-20-30□□-□□	132.5	200	300	2.1
AUPE133-20-36□□-□□	132.5	200	360	2.4
AUPE133-20-43□□-□□	132.5	200	430	2.7
AUPE133-25-16□□-□□	132.5	250	160	1.6
AUPE133-25-20□□-□□	132.5	250	200	1.8
AUPE133-25-25□□-□□	132.5	250	250	2.1
AUPE133-25-30□□-□□	132.5	250	300	2.4
AUPE133-25-36□□-□□	132.5	250	360	2.7
AUPE133-25-43□□-□□	132.5	250	430	3.1
AUPE133-30-16□□-□□	132.5	300	160	1.8
AUPE133-30-20□□-□□	132.5	300	200	2.1
AUPE133-30-25□□-□□	132.5	300	250	2.3
AUPE133-30-30□□-□□	132.5	300	300	2.6
AUPE133-30-36□□-□□	132.5	300	360	3.0
AUPE133-30-43□□-□□	132.5	300	430	3.4
AUPE133-30-50□□-□□	132.5	300	500	3.8
AUPE133-36-16□□-□□	132.5	360	160	2.1
AUPE133-36-20□□-□□	132.5	360	200	2.3
AUPE133-36-25□□-□□	132.5	360	250	2.6
AUPE133-36-30□□-□□	132.5	360	300	3.0
AUPE133-36-36□□-□□	132.5	360	360	3.4
AUPE133-36-43□□-□□	132.5	360	430	3.8
AUPE133-36-50□□-□□	132.5	360	500	4.3
AUPE133-43-16□□-□□	132.5	430	160	2.4
AUPE133-43-20□□-□□	132.5	430	200	2.7
AUPE133-43-25□□-□□	132.5	430	250	3.0
AUPE133-43-30□□-□□	132.5	430	300	3.4
AUPE133-43-36□□-□□	132.5	430	360	3.8
AUPE133-43-43□□-□□	132.5	430	430	4.3
AUPE133-43-50□□-□□	132.5	430	500	4.8
AUPE133-50-30□□-□□	132.5	500	300	3.8
AUPE133-50-36□□-□□	132.5	500	360	4.2
AUPE133-50-43□□-□□	132.5	500	430	4.8
AUPE133-50-50□□-□□	132.5	500	500	5.4
NEW AUPE149-16-16□□-□□	149	160	160	1.3
NEW AUPE149-16-20□□-□□	149	160	200	1.5
NEW AUPE149-16-25□□-□□	149	160	250	1.7
NEW AUPE149-16-30□□-□□	149	160	300	1.9
NEW AUPE149-16-36□□-□□	149	160	360	2.2
NEW AUPE149-16-43□□-□□	149	160	430	2.6
NEW AUPE149-20-16□□-□□	149	200	160	1.4
NEW AUPE149-20-20□□-□□	149	200	200	1.6
NEW AUPE149-20-25□□-□□	149	200	250	1.9
NEW AUPE149-20-30□□-□□	149	200	300	2.2
NEW AUPE149-20-36□□-□□	149	200	360	2.5
NEW AUPE149-20-43□□-□□	149	200	430	2.8
NEW AUPE149-25-16□□-□□	149	250	160	1.7
NEW AUPE149-25-20□□-□□	149	250	200	1.9
NEW AUPE149-25-25□□-□□	149	250	250	2.2
NEW AUPE149-25-30□□-□□	149	250	300	2.4
NEW AUPE149-25-36□□-□□	149	250	360	2.8
NEW AUPE149-25-43□□-□□	149	250	430	3.2
NEW AUPE149-30-16□□-□□	149	300	160	1.9
NEW AUPE149-30-20□□-□□	149	300	200	2.1
NEW AUPE149-30-25□□-□□	149	300	250	2.4
NEW AUPE149-30-30□□-□□	149	300	300	2.7

■ Please suffix color code at the end of the product number.

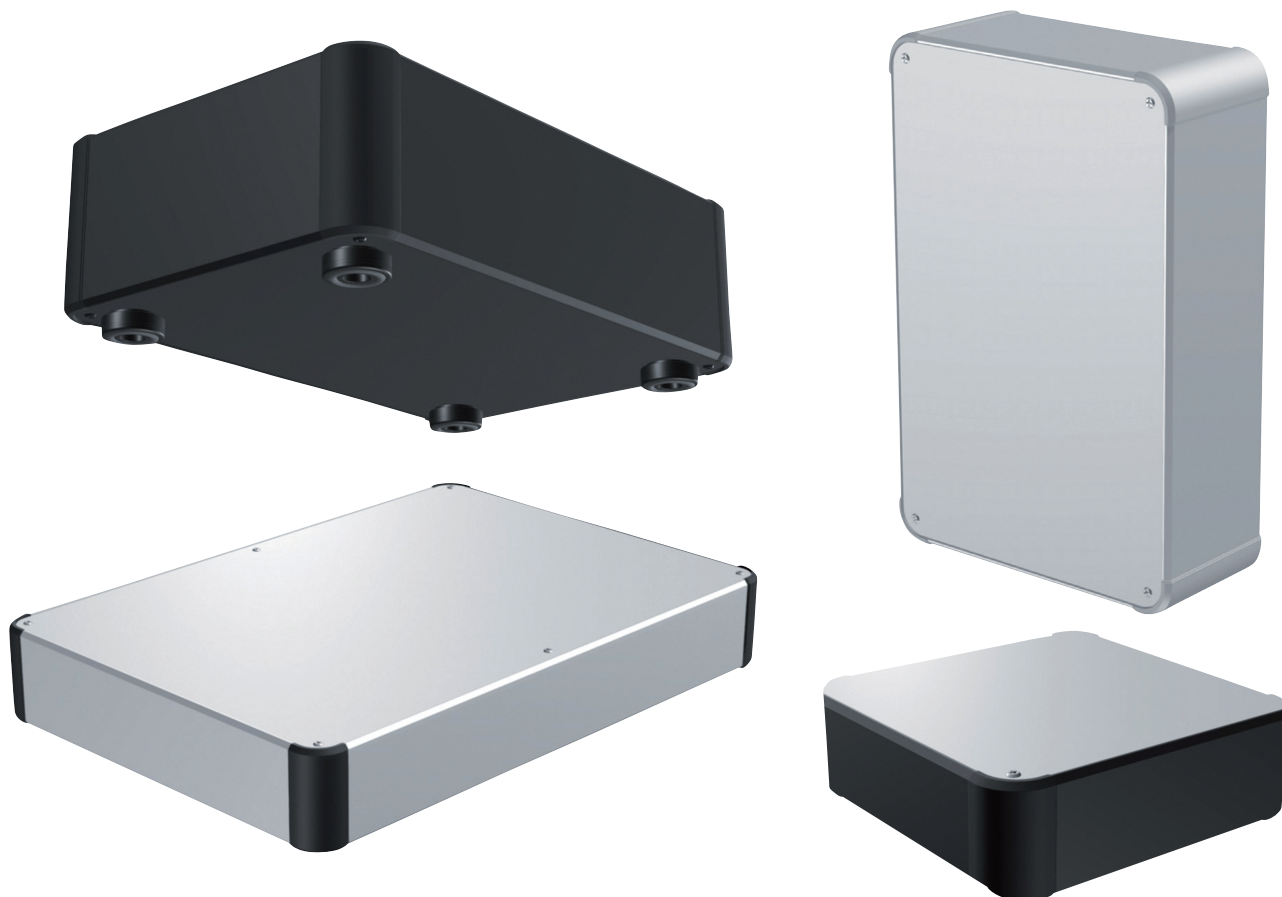
Product no.	H	W	D	Weight (kg)
NEW AUPE149-30-36□□-□□	149	300	360	3.1
NEW AUPE149-30-43□□-□□	149	300	430	3.5
NEW AUPE149-30-50□□-□□	149	300	500	4.0
NEW AUPE149-36-16□□-□□	149	360	160	2.1
NEW AUPE149-36-20□□-□□	149	360	200	2.4
NEW AUPE149-36-25□□-□□	149	360	250	2.7
NEW AUPE149-36-30□□-□□	149	360	300	3.1
NEW AUPE149-36-36□□-□□	149	360	360	3.5
NEW AUPE149-36-43□□-□□	149	360	430	4.0
NEW AUPE149-36-50□□-□□	149	360	500	4.4
NEW AUPE149-43-16□□-□□	149	430	160	2.4
NEW AUPE149-43-20□□-□□	149	430	200	2.7
NEW AUPE149-43-25□□-□□	149	430	250	3.1
NEW AUPE149-43-30□□-□□	149	430	300	3.5
NEW AUPE149-43-36□□-□□	149	430	360	3.9
NEW AUPE149-43-43□□-□□	149	430	430	4.5
NEW AUPE149-43-50□□-□□	149	430	500	5.0
NEW AUPE149-50-30□□-□□	149	500	300	3.9
NEW AUPE149-50-36□□-□□	149	500	360	4.4
NEW AUPE149-50-43□□-□□	149	500	430	4.9
NEW AUPE149-50-50□□-□□	149	500	500	5.5
AUPE177-16-16□□-□□	177	160	160	1.4
AUPE177-16-20□□-□□	177	160	200	1.6
AUPE177-16-25□□-□□	177	160	250	1.9
AUPE177-16-30□□-□□	177	160	300	2.1
AUPE177-16-36□□-□□	177	160	360	2.4
AUPE177-16-43□□-□□	177	160	430	2.8
AUPE177-20-16□□-□□	177	200	160	1.6
AUPE177-20-20□□-□□	177	200	200	1.8
AUPE177-20-25□□-□□	177	200	250	2.1
AUPE177-20-30□□-□□	177	200	300	2.4
AUPE177-20-36□□-□□	177	200	360	2.7
AUPE177-20-43□□-□□	177	200	430	3.1
AUPE177-25-16□□-□□	177	250	160	1.8
AUPE177-25-20□□-□□	177	250	200	2.1
AUPE177-25-25□□-□□	177	250	250	2.4
AUPE177-25-30□□-□□	177	250	300	2.7
AUPE177-25-36□□-□□	177	250	360	3.0
AUPE177-25-43□□-□□	177	250	430	3.5
AUPE177-30-16□□-□□	177	300	160	2.0
AUPE177-30-20□□-□□	177	300	200	2.3
AUPE177-30-25□□-□□	177	300	250	2.6
AUPE177-30-30□□-□□	177	300	300	3.0
AUPE177-30-36□□-□□	177	300	360	3.4
AUPE177-30-43□□-□□	177	300	430	3.8
AUPE177-30-50□□-□□	177	300	500	4.3
AUPE177-36-16□□-□□	177	360	160	2.3
AUPE177-36-20□□-□□	177	360	200	2.6
AUPE177-36-25□□-□□	177	360	250	3.0
AUPE177-36-30□□-□□	177	360	300	3.3
AUPE177-36-36□□-□□	177	360	360	3.8
AUPE177-36-43□□-□□	177	360	430	4.3
AUPE177-36-50□□-□□	177	360	500	4.8
AUPE177-43-16□□-□□	177	430	160	2.7
AUPE177-43-20□□-□□	177	430	200	3.0
AUPE177-43-25□□-□□	177	430	250	3.4
AUPE177-43-30□□-□□	177	430	300	3.8
AUPE177-43-36□□-□□	177	430	360	4.2
AUPE177-43-43□□-□□	177	430	430	4.8
AUPE177-43-50□□-□□	177	430	500	5.4
AUPE177-50-30□□-□□	177	500	300	4.2
AUPE177-50-36□□-□□	177	500	360	4.7
AUPE177-50-43□□-□□	177	500	430	5.3
AUPE177-50-50□□-□□	177	500	500	5.9

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUPE222-16-16□□-□□	221.5	161	161	1.7
NEW AUPE222-16-20□□-□□	221.5	161	201	1.9
NEW AUPE222-16-25□□-□□	221.5	161	251	2.2
NEW AUPE222-16-30□□-□□	221.5	161	301	2.5
NEW AUPE222-16-36□□-□□	221.5	161	361	2.8
NEW AUPE222-16-43□□-□□	221.5	161	431	3.3
NEW AUPE222-20-16□□-□□	221.5	201	161	1.9
NEW AUPE222-20-20□□-□□	221.5	201	201	2.1
NEW AUPE222-20-25□□-□□	221.5	201	251	2.4
NEW AUPE222-20-30□□-□□	221.5	201	301	2.7
NEW AUPE222-20-36□□-□□	221.5	201	361	3.1
NEW AUPE222-20-43□□-□□	221.5	201	431	3.6
NEW AUPE222-25-16□□-□□	221.5	251	161	2.1
NEW AUPE222-25-20□□-□□	221.5	251	201	2.4
NEW AUPE222-25-25□□-□□	221.5	251	251	2.7
NEW AUPE222-25-30□□-□□	221.5	251	301	3.1
NEW AUPE222-25-36□□-□□	221.5	251	361	3.5
NEW AUPE222-25-43□□-□□	221.5	251	431	4.0
NEW AUPE222-30-16□□-□□	221.5	301	161	2.4
NEW AUPE222-30-20□□-□□	221.5	301	201	2.6
NEW AUPE222-30-25□□-□□	221.5	301	251	3.0
NEW AUPE222-30-30□□-□□	221.5	301	301	3.4
NEW AUPE222-30-36□□-□□	221.5	301	361	3.8
NEW AUPE222-30-43□□-□□	221.5	301	431	4.3
NEW AUPE222-30-50□□-□□	221.5	301	501	4.9
NEW AUPE222-36-16□□-□□	221.5	361	161	2.6
NEW AUPE222-36-20□□-□□	221.5	361	201	3.0
NEW AUPE222-36-25□□-□□	221.5	361	251	3.4
NEW AUPE222-36-30□□-□□	221.5	361	301	3.8
NEW AUPE222-36-36□□-□□	221.5	361	361	4.2
NEW AUPE222-36-43□□-□□	221.5	361	431	4.8
NEW AUPE222-36-50□□-□□	221.5	361	501	5.4
NEW AUPE222-43-16□□-□□	221.5	431	161	3.0
NEW AUPE222-43-20□□-□□	221.5	431	201	3.4
NEW AUPE222-43-25□□-□□	221.5	431	251	3.8
NEW AUPE222-43-30□□-□□	221.5	431	301	4.2
NEW AUPE222-43-36□□-□□	221.5	431	361	4.8
NEW AUPE222-43-43□□-□□	221.5	431	431	5.4
NEW AUPE222-43-50□□-□□	221.5	431	501	6.0
NEW AUPE222-50-30□□-□□	221.5	501	301	4.7
NEW AUPE222-50-36□□-□□	221.5	501	361	5.3
NEW AUPE222-50-43□□-□□	221.5	501	431	5.9
NEW AUPE222-50-50□□-□□	221.5	501	501	6.6

Product no.	H	W	D	Weight (kg)
NEW AUPE266-16-16□□-□□	265.9	161	161	2.0
NEW AUPE266-16-20□□-□□	265.9	161	201	2.3
NEW AUPE266-16-25□□-□□	265.9	161	251	2.6
NEW AUPE266-16-30□□-□□	265.9	161	301	3.0
NEW AUPE266-16-36□□-□□	265.9	161	361	3.4
NEW AUPE266-16-43□□-□□	265.9	161	431	3.9
NEW AUPE266-20-16□□-□□	265.9	201	161	2.2
NEW AUPE266-20-20□□-□□	265.9	201	201	2.5
NEW AUPE266-20-25□□-□□	265.9	201	251	2.9
NEW AUPE266-20-30□□-□□	265.9	201	301	3.3
NEW AUPE266-20-36□□-□□	265.9	201	361	3.7
NEW AUPE266-20-43□□-□□	265.9	201	431	4.3
NEW AUPE266-25-16□□-□□	265.9	251	161	2.5
NEW AUPE266-25-20□□-□□	265.9	251	201	2.8
NEW AUPE266-25-25□□-□□	265.9	251	251	3.2
NEW AUPE266-25-30□□-□□	265.9	251	301	3.6
NEW AUPE266-25-36□□-□□	265.9	251	361	4.1
NEW AUPE266-25-43□□-□□	265.9	251	431	4.7
NEW AUPE266-30-16□□-□□	265.9	301	161	2.7
NEW AUPE266-30-20□□-□□	265.9	301	201	3.1
NEW AUPE266-30-25□□-□□	265.9	301	251	3.5
NEW AUPE266-30-30□□-□□	265.9	301	301	3.9
NEW AUPE266-30-36□□-□□	265.9	301	361	4.5
NEW AUPE266-30-43□□-□□	265.9	301	431	5.1
NEW AUPE266-30-50□□-□□	265.9	301	501	5.7
NEW AUPE266-36-16□□-□□	265.9	361	161	3.0
NEW AUPE266-36-20□□-□□	265.9	361	201	3.4
NEW AUPE266-36-25□□-□□	265.9	361	251	3.9
NEW AUPE266-36-30□□-□□	265.9	361	301	4.4
NEW AUPE266-36-36□□-□□	265.9	361	361	4.9
NEW AUPE266-36-43□□-□□	265.9	361	431	5.6
NEW AUPE266-36-50□□-□□	265.9	361	501	6.2
NEW AUPE266-43-16□□-□□	265.9	431	161	3.5
NEW AUPE266-43-20□□-□□	265.9	431	201	3.9
NEW AUPE266-43-25□□-□□	265.9	431	251	4.4
NEW AUPE266-43-30□□-□□	265.9	431	301	4.9
NEW AUPE266-43-36□□-□□	265.9	431	361	5.5
NEW AUPE266-43-43□□-□□	265.9	431	431	6.2
NEW AUPE266-43-50□□-□□	265.9	431	501	6.9
NEW AUPE266-50-30□□-□□	265.9	501	301	5.3
NEW AUPE266-50-36□□-□□	265.9	501	361	6.0
NEW AUPE266-50-43□□-□□	265.9	501	431	6.8
NEW AUPE266-50-50□□-□□	265.9	501	501	7.5



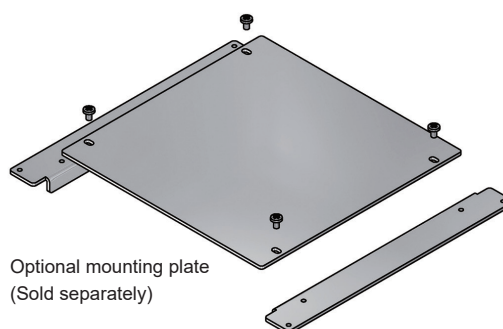
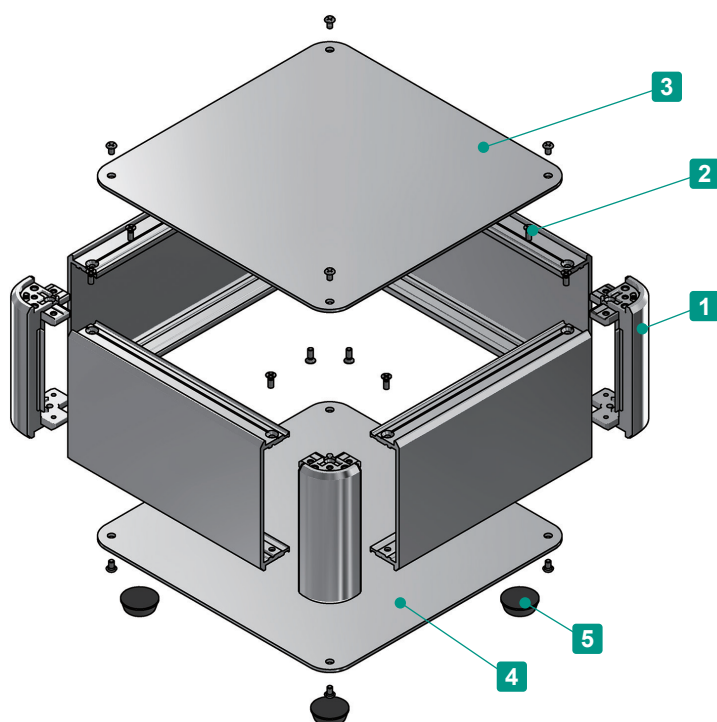
- Round corner designed aluminium control box with 4 extruded aluminium frames.
- A large selection of 270 different sizes and 4 colors to choose from.
- Aluminium control box is suitable for use as industrial controller, machine controller, audio amplifier, power supply, and more.
- Feet is selectable from adhesive rubber and aluminium types.

Included screws

- Top / Bottom cover
M3-5 original trapezoid head (plus / hex) &
Nickel plated / Black trivalent chromate x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs
- Aluminium feet
M4-8 bind head & Black trivalent chromate x 4 pcs

Recommended torque : $0.3 \sim 0.6 \text{ N} \cdot \text{m}$

* Recommended torque listed is for reference only; actual may differ
Assemble after testing torque.



Optional mounting plate
(Sold separately)

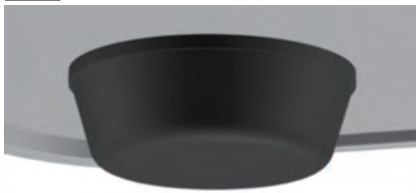
Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized
3	Top cover	1	Aluminium A1100P	Silver • Black / Anodized
4	Bottom cover	1	Aluminium A1100P	Silver • Black / Anodized
5	Adhesive Rubber feet : Aluminium feet	4	Synthetic rubber : Aluminium	Black : Silver • Black / Anodized

To select Feet, Screw, and Color, follow steps **1** ~ **3** to determine product number.

1 Feet

R Rubber (Black)



A Aluminium (Silver / Anodized)
(Black / Anodized)



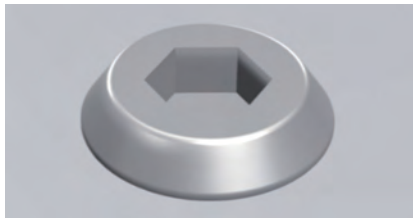
*Color of "Aluminium Feet" will be the same as bottom cover color.

2 Screw

P Plus (Silver / Nickel plated)
(Black / Black trivalent chromate)



H Hex (Silver / Nickel plated)
(Black / Black trivalent chromate)



Hex wrench included.

3 Color

Please choose from the color combinations listed below.

S **S**



S **B**



B **X**



B **B**



Product Number

To determine a product number, fill H-W-D dimensions and select Feet, Screw, and Color code in the following blank boxes.

AUX - - - **1 Feet 2 Screw 3 Color**
 H-W-D dimensions **R or A P or H SS • SB • BX • BB**
 See page 264-266 for dimensions and product no.

Numbering example :

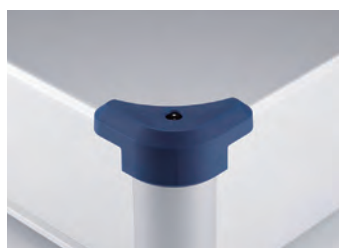
If looking at "H66 x W250 x D250mm, Feet type R, Screw type H, Color type BX"

➔ **AUX 66-25-25 RH-BX**

Accessories (Optional parts)



Mounting plate AUC series
See page 293 ~ 294



Corner guard AUCG series
See page 294



Elastomer carrying handle FM200
See website



Aluminium handle OH series
See website



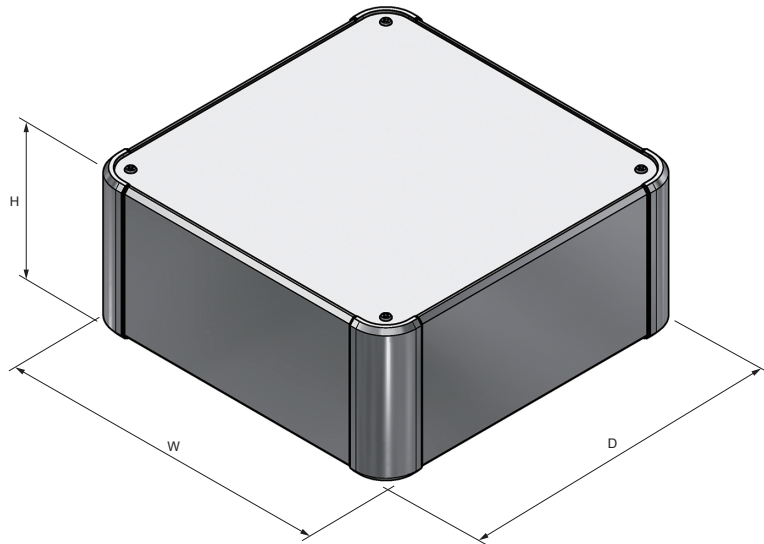
Wall mount support arm MAR series
See page 273 ~ 274

APPLICATION EXAMPLE

Operation panel



AUX dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

■ Feet is selectable from adhesive rubber and aluminium types.
※Rubber and aluminium feet height are different.

Rubber Feet



Aluminium Feet



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUX 44-16-16□□-□□	44	160	160	0.7
AUX 44-20-16□□-□□	44	200	160	0.8
AUX 44-20-20□□-□□	44	200	200	0.9
AUX 44-25-16□□-□□	44	250	160	1.0
AUX 44-25-20□□-□□	44	250	200	1.1
AUX 44-25-25□□-□□	44	250	250	1.3
AUX 44-30-16□□-□□	44	300	160	1.1
AUX 44-30-20□□-□□	44	300	200	1.3
AUX 44-30-25□□-□□	44	300	250	1.5
AUX 44-30-30□□-□□	44	300	300	1.7
AUX 44-36-16□□-□□	44	360	160	1.3
AUX 44-36-20□□-□□	44	360	200	1.5
AUX 44-36-25□□-□□	44	360	250	1.7
AUX 44-36-30□□-□□	44	360	300	2.0
AUX 44-36-36□□-□□	44	360	360	2.2
AUX 44-43-16□□-□□	44	430	160	1.5
AUX 44-43-20□□-□□	44	430	200	1.7
AUX 44-43-25□□-□□	44	430	250	2.0
AUX 44-43-30□□-□□	44	430	300	2.3
AUX 44-43-36□□-□□	44	430	360	2.6
AUX 44-43-43□□-□□	44	430	430	3.0
AUX 44-50-30□□-□□	44	500	300	2.6
AUX 44-50-36□□-□□	44	500	360	3.0
AUX 44-50-43□□-□□	44	500	430	3.4
AUX 44-50-50□□-□□	44	500	500	3.9
AUX 44-60-36□□-□□	44	600	360	3.5
AUX 44-60-43□□-□□	44	600	430	4.0

Product no.	H	W	D	Weight (kg)
AUX 66-16-16□□-□□	66	160	160	0.9
AUX 66-20-16□□-□□	66	200	160	1.0
AUX 66-20-20□□-□□	66	200	200	1.1
AUX 66-25-16□□-□□	66	250	160	1.2
AUX 66-25-20□□-□□	66	250	200	1.3
AUX 66-25-25□□-□□	66	250	250	1.5
AUX 66-30-16□□-□□	66	300	160	1.3
AUX 66-30-20□□-□□	66	300	200	1.5
AUX 66-30-25□□-□□	66	300	250	1.7
AUX 66-30-30□□-□□	66	300	300	2.0
AUX 66-36-16□□-□□	66	360	160	1.4
AUX 66-36-20□□-□□	66	360	200	1.7
AUX 66-36-25□□-□□	66	360	250	2.0
AUX 66-36-30□□-□□	66	360	300	2.2
AUX 66-36-36□□-□□	66	360	360	2.6
AUX 66-43-16□□-□□	66	430	160	1.7
AUX 66-43-20□□-□□	66	430	200	2.0
AUX 66-43-25□□-□□	66	430	250	2.3
AUX 66-43-30□□-□□	66	430	300	2.6
AUX 66-43-36□□-□□	66	430	360	3.0
AUX 66-43-43□□-□□	66	430	430	3.4
AUX 66-50-30□□-□□	66	500	300	2.9
AUX 66-50-36□□-□□	66	500	360	3.3
AUX 66-50-43□□-□□	66	500	430	3.8
AUX 66-50-50□□-□□	66	500	500	4.3
AUX 66-60-36□□-□□	66	600	360	3.8
AUX 66-60-43□□-□□	66	600	430	4.4

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUX 88-16-16□□-□□	88	160	160	1.0
AUX 88-20-16□□-□□	88	200	160	1.1
AUX 88-20-20□□-□□	88	200	200	1.3
AUX 88-25-16□□-□□	88	250	160	1.3
AUX 88-25-20□□-□□	88	250	200	1.5
AUX 88-25-25□□-□□	88	250	250	1.7
AUX 88-30-16□□-□□	88	300	160	1.5
AUX 88-30-20□□-□□	88	300	200	1.7
AUX 88-30-25□□-□□	88	300	250	1.9
AUX 88-30-30□□-□□	88	300	300	2.2
AUX 88-36-16□□-□□	88	360	160	1.6
AUX 88-36-20□□-□□	88	360	200	1.9
AUX 88-36-25□□-□□	88	360	250	2.2
AUX 88-36-30□□-□□	88	360	300	2.4
AUX 88-36-36□□-□□	88	360	360	2.8
AUX 88-43-16□□-□□	88	430	160	1.9
AUX 88-43-20□□-□□	88	430	200	2.2
AUX 88-43-25□□-□□	88	430	250	2.5
AUX 88-43-30□□-□□	88	430	300	2.8
AUX 88-43-36□□-□□	88	430	360	3.2
AUX 88-43-43□□-□□	88	430	430	3.6
AUX 88-50-30□□-□□	88	500	300	3.2
AUX 88-50-36□□-□□	88	500	360	3.6
AUX 88-50-43□□-□□	88	500	430	4.1
AUX 88-50-50□□-□□	88	500	500	4.6
AUX 88-60-36□□-□□	88	600	360	4.1
AUX 88-60-43□□-□□	88	600	430	4.7
NEW AUX 99-16-16□□-□□	99	160	160	1.0
NEW AUX 99-20-16□□-□□	99	200	160	1.1
NEW AUX 99-20-20□□-□□	99	200	200	1.3
NEW AUX 99-25-16□□-□□	99	250	160	1.3
NEW AUX 99-25-20□□-□□	99	250	200	1.5
NEW AUX 99-25-25□□-□□	99	250	250	1.7
NEW AUX 99-30-16□□-□□	99	300	160	1.5
NEW AUX 99-30-20□□-□□	99	300	200	1.7
NEW AUX 99-30-25□□-□□	99	300	250	1.9
NEW AUX 99-30-30□□-□□	99	300	300	2.2
NEW AUX 99-36-16□□-□□	99	360	160	1.7
NEW AUX 99-36-20□□-□□	99	360	200	1.9
NEW AUX 99-36-25□□-□□	99	360	250	2.2
NEW AUX 99-36-30□□-□□	99	360	300	2.5
NEW AUX 99-36-36□□-□□	99	360	360	2.8
NEW AUX 99-43-16□□-□□	99	430	160	2.0
NEW AUX 99-43-20□□-□□	99	430	200	2.2
NEW AUX 99-43-25□□-□□	99	430	250	2.5
NEW AUX 99-43-30□□-□□	99	430	300	2.9
NEW AUX 99-43-36□□-□□	99	430	360	3.3
NEW AUX 99-43-43□□-□□	99	430	430	3.7
NEW AUX 99-50-30□□-□□	99	500	300	3.2
NEW AUX 99-50-36□□-□□	99	500	360	3.7
NEW AUX 99-50-43□□-□□	99	500	430	4.2
NEW AUX 99-50-50□□-□□	99	500	500	4.7
NEW AUX 99-60-36□□-□□	99	600	360	4.2
NEW AUX 99-60-43□□-□□	99	600	430	4.8

■ Please suffix color code at the end of the product number.

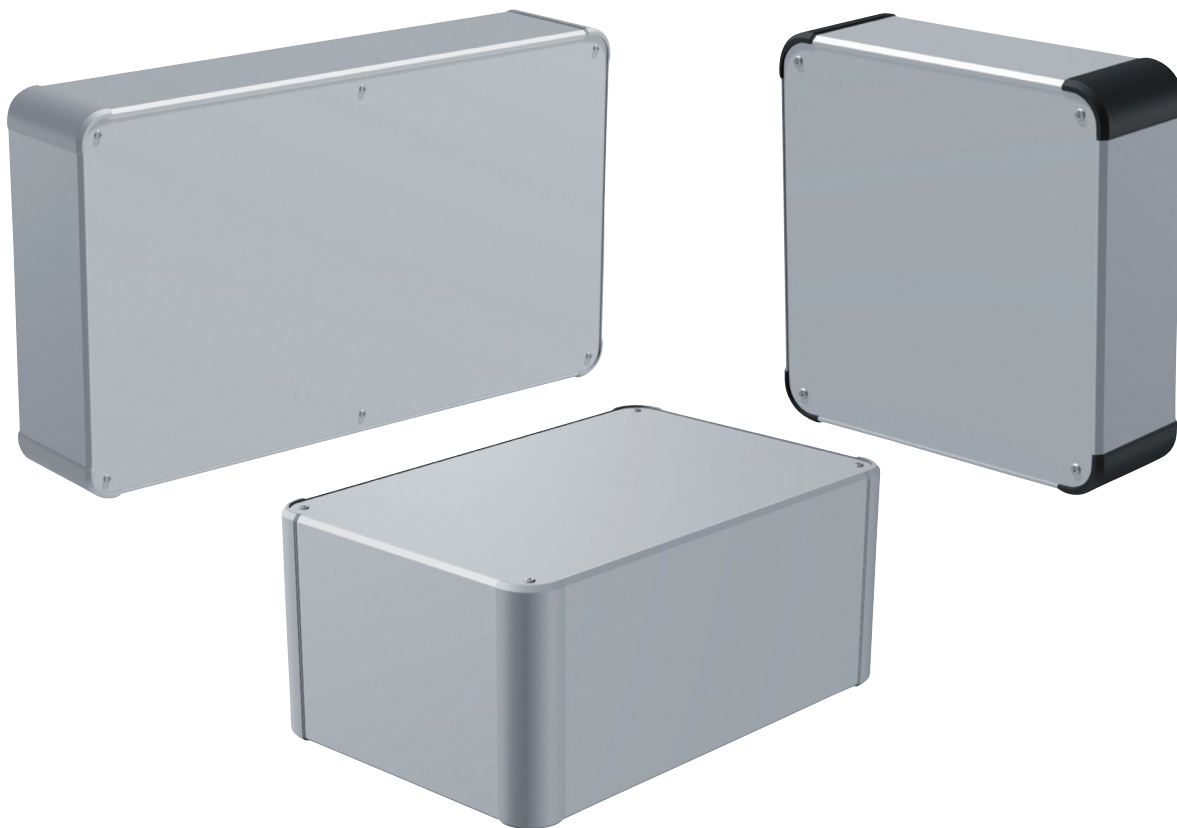
Product no.	H	W	D	Weight (kg)
NEW AUX115-16-16□□-□□	115	160	160	1.1
NEW AUX115-20-16□□-□□	115	200	160	1.2
NEW AUX115-20-20□□-□□	115	200	200	1.4
NEW AUX115-25-16□□-□□	115	250	160	1.4
NEW AUX115-25-20□□-□□	115	250	200	1.6
NEW AUX115-25-25□□-□□	115	250	250	1.8
NEW AUX115-30-16□□-□□	115	300	160	1.6
NEW AUX115-30-20□□-□□	115	300	200	1.8
NEW AUX115-30-25□□-□□	115	300	250	2.1
NEW AUX115-30-30□□-□□	115	300	300	2.3
NEW AUX115-36-16□□-□□	115	360	160	1.8
NEW AUX115-36-20□□-□□	115	360	200	2.0
NEW AUX115-36-25□□-□□	115	360	250	2.3
NEW AUX115-36-30□□-□□	115	360	300	2.6
NEW AUX115-36-36□□-□□	115	360	360	3.0
NEW AUX115-43-16□□-□□	115	430	160	2.1
NEW AUX115-43-20□□-□□	115	430	200	2.4
NEW AUX115-43-25□□-□□	115	430	250	2.7
NEW AUX115-43-30□□-□□	115	430	300	3.0
NEW AUX115-43-36□□-□□	115	430	360	3.4
NEW AUX115-43-43□□-□□	115	430	430	3.9
NEW AUX115-50-30□□-□□	115	500	300	3.4
NEW AUX115-50-36□□-□□	115	500	360	3.9
NEW AUX115-50-43□□-□□	115	500	430	4.4
NEW AUX115-50-50□□-□□	115	500	500	4.9
NEW AUX115-60-36□□-□□	115	600	360	4.4
NEW AUX115-60-43□□-□□	115	600	430	5.0
AUX133-16-16□□-□□	132.5	160	160	1.3
AUX133-20-16□□-□□	132.5	200	160	1.5
AUX133-20-20□□-□□	132.5	200	200	1.7
AUX133-25-16□□-□□	132.5	250	160	1.7
AUX133-25-20□□-□□	132.5	250	200	1.9
AUX133-25-25□□-□□	132.5	250	250	2.2
AUX133-30-16□□-□□	132.5	300	160	1.9
AUX133-30-20□□-□□	132.5	300	200	2.1
AUX133-30-25□□-□□	132.5	300	250	2.4
AUX133-30-30□□-□□	132.5	300	300	2.7
AUX133-36-16□□-□□	132.5	360	160	2.2
AUX133-36-20□□-□□	132.5	360	200	2.4
AUX133-36-25□□-□□	132.5	360	250	2.7
AUX133-36-30□□-□□	132.5	360	300	3.1
AUX133-36-36□□-□□	132.5	360	360	3.4
AUX133-43-16□□-□□	132.5	430	160	2.5
AUX133-43-20□□-□□	132.5	430	200	2.8
AUX133-43-25□□-□□	132.5	430	250	3.1
AUX133-43-30□□-□□	132.5	430	300	3.5
AUX133-43-36□□-□□	132.5	430	360	3.9
AUX133-43-43□□-□□	132.5	430	430	4.4
AUX133-50-30□□-□□	132.5	500	300	3.9
AUX133-50-36□□-□□	132.5	500	360	4.4
AUX133-50-43□□-□□	132.5	500	430	4.9
AUX133-50-50□□-□□	132.5	500	500	5.5
AUX133-60-36□□-□□	132.5	600	360	5.0
AUX133-60-43□□-□□	132.5	600	430	5.7

Product no. / Details

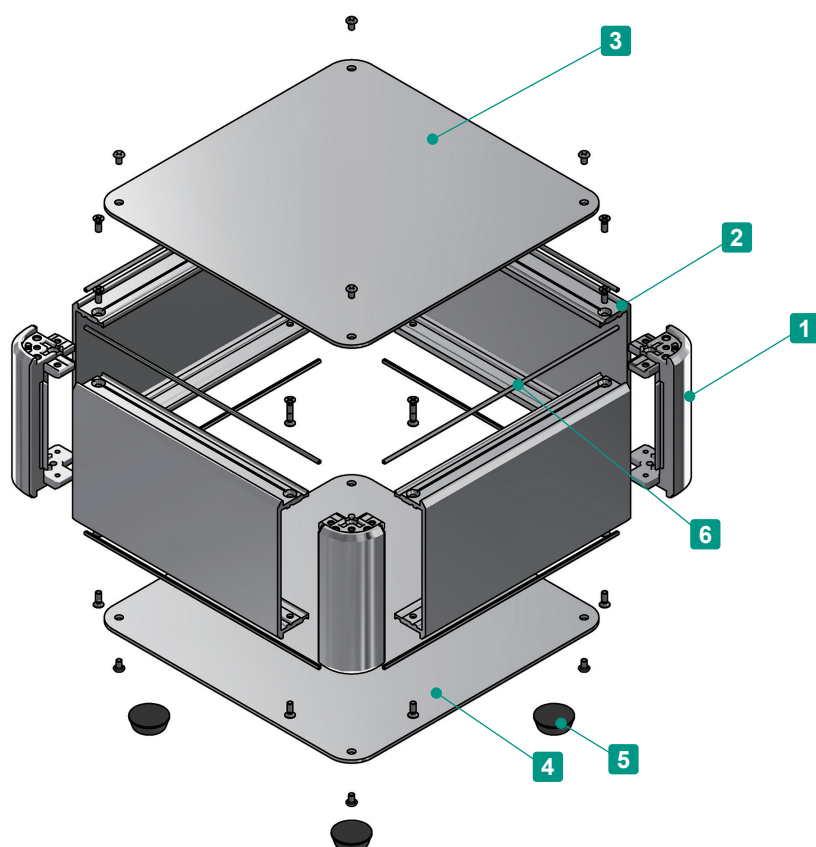
■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUX149-16-16□□-□□	149	160	160	1.3
NEW AUX149-20-16□□-□□	149	200	160	1.5
NEW AUX149-20-20□□-□□	149	200	200	1.7
NEW AUX149-25-16□□-□□	149	250	160	1.7
NEW AUX149-25-20□□-□□	149	250	200	1.9
NEW AUX149-25-25□□-□□	149	250	250	2.2
NEW AUX149-30-16□□-□□	149	300	160	2.0
NEW AUX149-30-20□□-□□	149	300	200	2.2
NEW AUX149-30-25□□-□□	149	300	250	2.5
NEW AUX149-30-30□□-□□	149	300	300	2.8
NEW AUX149-36-16□□-□□	149	360	160	2.2
NEW AUX149-36-20□□-□□	149	360	200	2.5
NEW AUX149-36-25□□-□□	149	360	250	2.8
NEW AUX149-36-30□□-□□	149	360	300	3.2
NEW AUX149-36-36□□-□□	149	360	360	3.6
NEW AUX149-43-16□□-□□	149	430	160	2.6
NEW AUX149-43-20□□-□□	149	430	200	2.9
NEW AUX149-43-25□□-□□	149	430	250	3.3
NEW AUX149-43-30□□-□□	149	430	300	3.6
NEW AUX149-43-36□□-□□	149	430	360	4.1
NEW AUX149-43-43□□-□□	149	430	430	4.6
NEW AUX149-50-30□□-□□	149	500	300	4.1
NEW AUX149-50-36□□-□□	149	500	360	4.6
NEW AUX149-50-43□□-□□	149	500	430	5.1
NEW AUX149-50-50□□-□□	149	500	500	5.7
NEW AUX149-60-36□□-□□	149	600	360	5.2
NEW AUX149-60-43□□-□□	149	600	430	5.9
AUX177-16-16□□-□□	177	160	160	1.5
AUX177-20-16□□-□□	177	200	160	1.7
AUX177-20-20□□-□□	177	200	200	1.9
AUX177-25-16□□-□□	177	250	160	1.9
AUX177-25-20□□-□□	177	250	200	2.2
AUX177-25-25□□-□□	177	250	250	2.5
AUX177-30-16□□-□□	177	300	160	2.2
AUX177-30-20□□-□□	177	300	200	2.4
AUX177-30-25□□-□□	177	300	250	2.8
AUX177-30-30□□-□□	177	300	300	3.1
AUX177-36-16□□-□□	177	360	160	2.5
AUX177-36-20□□-□□	177	360	200	2.8
AUX177-36-25□□-□□	177	360	250	3.1
AUX177-36-30□□-□□	177	360	300	3.5
AUX177-36-36□□-□□	177	360	360	3.9
AUX177-43-16□□-□□	177	430	160	2.9
AUX177-43-20□□-□□	177	430	200	3.2
AUX177-43-25□□-□□	177	430	250	3.6
AUX177-43-30□□-□□	177	430	300	4.0
AUX177-43-36□□-□□	177	430	360	4.5
AUX177-43-43□□-□□	177	430	430	5.0
AUX177-50-30□□-□□	177	500	300	4.4
AUX177-50-36□□-□□	177	500	360	5.0
AUX177-50-43□□-□□	177	500	430	5.6
AUX177-50-50□□-□□	177	500	500	6.2
AUX177-60-36□□-□□	177	600	360	5.7
AUX177-60-43□□-□□	177	600	430	6.4

Product no.	H	W	D	Weight (kg)
NEW AUX222-16-16□□-□□	221.5	161	161	1.7
NEW AUX222-20-16□□-□□	221.5	201	161	2.0
NEW AUX222-20-20□□-□□	221.5	201	201	2.2
NEW AUX222-25-16□□-□□	221.5	251	161	2.3
NEW AUX222-25-20□□-□□	221.5	251	201	2.5
NEW AUX222-25-25□□-□□	221.5	251	251	2.9
NEW AUX222-30-16□□-□□	221.5	301	161	2.5
NEW AUX222-30-20□□-□□	221.5	301	201	2.8
NEW AUX222-30-25□□-□□	221.5	301	251	3.2
NEW AUX222-30-30□□-□□	221.5	301	301	3.6
NEW AUX222-36-16□□-□□	221.5	361	161	2.9
NEW AUX222-36-20□□-□□	221.5	361	201	3.2
NEW AUX222-36-25□□-□□	221.5	361	251	3.6
NEW AUX222-36-30□□-□□	221.5	361	301	4.0
NEW AUX222-36-36□□-□□	221.5	361	361	4.5
NEW AUX222-43-16□□-□□	221.5	431	161	3.3
NEW AUX222-43-20□□-□□	221.5	431	201	3.7
NEW AUX222-43-25□□-□□	221.5	431	251	4.1
NEW AUX222-43-30□□-□□	221.5	431	301	4.5
NEW AUX222-43-36□□-□□	221.5	431	361	5.1
NEW AUX222-43-43□□-□□	221.5	431	431	5.7
NEW AUX222-50-30□□-□□	221.5	501	301	5.0
NEW AUX222-50-36□□-□□	221.5	501	361	5.6
NEW AUX222-50-43□□-□□	221.5	501	431	6.3
NEW AUX222-50-50□□-□□	221.5	501	501	6.9
NEW AUX222-60-36□□-□□	221.5	601	361	6.4
NEW AUX222-60-43□□-□□	221.5	601	431	7.1
NEW AUX266-16-16□□-□□	265.9	161	161	2.1
NEW AUX266-20-16□□-□□	265.9	201	161	2.4
NEW AUX266-20-20□□-□□	265.9	201	201	2.7
NEW AUX266-25-16□□-□□	265.9	251	161	2.8
NEW AUX266-25-20□□-□□	265.9	251	201	3.1
NEW AUX266-25-25□□-□□	265.9	251	251	3.5
NEW AUX266-30-16□□-□□	265.9	301	161	3.1
NEW AUX266-30-20□□-□□	265.9	301	201	3.5
NEW AUX266-30-25□□-□□	265.9	301	251	3.9
NEW AUX266-30-30□□-□□	265.9	301	301	4.4
NEW AUX266-36-16□□-□□	265.9	361	161	3.6
NEW AUX266-36-20□□-□□	265.9	361	201	4.0
NEW AUX266-36-25□□-□□	265.9	361	251	4.4
NEW AUX266-36-30□□-□□	265.9	361	301	4.9
NEW AUX266-36-36□□-□□	265.9	361	361	5.4
NEW AUX266-43-16□□-□□	265.9	431	161	4.1
NEW AUX266-43-20□□-□□	265.9	431	201	4.5
NEW AUX266-43-25□□-□□	265.9	431	251	5.0
NEW AUX266-43-30□□-□□	265.9	431	301	5.5
NEW AUX266-43-36□□-□□	265.9	431	361	6.1
NEW AUX266-43-43□□-□□	265.9	431	431	6.8
NEW AUX266-50-30□□-□□	265.9	501	301	6.1
NEW AUX266-50-36□□-□□	265.9	501	361	6.8
NEW AUX266-50-43□□-□□	265.9	501	431	7.5
NEW AUX266-50-50□□-□□	265.9	501	501	8.3
NEW AUX266-60-36□□-□□	265.9	601	361	7.7
NEW AUX266-60-43□□-□□	265.9	601	431	8.5

EMC
Shielding

- Round corner designed aluminium enclosure with 4 extruded aluminium frames.
- Shielding gasket allows the enclosure to be EMC shielded.
- A large selection of 270 different sizes and 2 colors to choose from.
- Feet is selectable from adhesive rubber and aluminium types.



Included screws

- Top / Bottom cover
M3-5 original trapezoid head (plus / hex) & Nickel plated x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs
- Aluminium feet
M4-8 bind head & Black trivalent chromate x 4 pcs

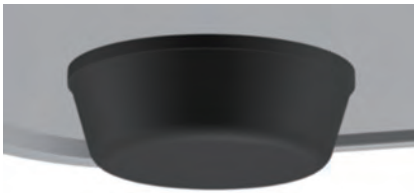
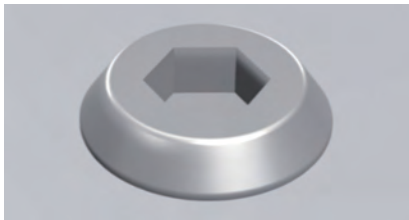
Recommended torque : 0.3 ~ 0.6N • m

* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
3	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
4	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
5	Adhesive Rubber feet : Aluminium feet	4	Synthetic rubber : Aluminium	Black : Silver / Anodized
6	EMC shielding gasket	8	Conductive fiber UL94V-0	Metallic gray

To select Feet, Screw, and Color, follow steps **1** ~ **3** to determine product number.

1 Feet**R Rubber** (Black)**A Aluminium** (Silver / Anodized)**2 Screw****P Plus** (Silver / Nickel plated)**H Hex** (Silver / Nickel plated)

Hex wrench included.

3 Color

Please choose from the color combinations listed below.

S S**S B**

Product Number

To determine a product number, fill H-W-D dimensions and select Feet, Screw, and Color code in the following blank boxes.

AUXE

- - -

H-W-D dimensions

1 Feet 2 Screw

3 Color

See page 270~272 for dimensions and product no.

R or A P or H

SS or SB

Numbering example :

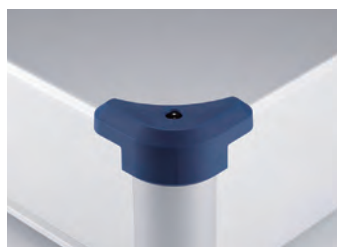
If looking at "H132.5 x W300 x D300mm, Feet type R, Screw type P, Color type SB"

➔ **AUXE 133-30-30 RP-SB**

Accessories (Optional parts)



Mounting plate AUC series
See page 293 ~ 294



Corner guard AUCG series
See page 294



Elastomer carrying handle FM200
See website

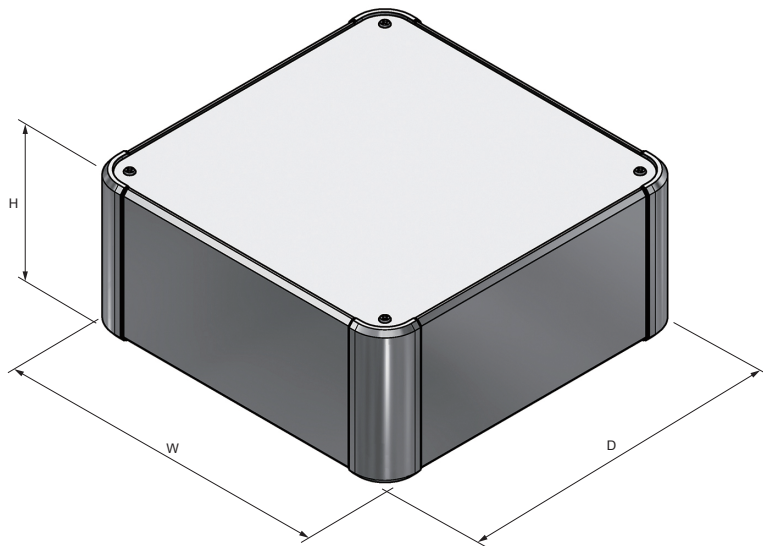


Aluminium handle OH series
See website



Wall mount support arm MAR series
See page 273 ~ 274

AUXE dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

■ Feet is selectable from adhesive rubber and aluminium types.
※Rubber and aluminium feet height are different.

Rubber Feet



Aluminium Feet



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUXE 44-16-16□□-□□	44	160	160	0.7
AUXE 44-20-16□□-□□	44	200	160	0.8
AUXE 44-20-20□□-□□	44	200	200	0.9
AUXE 44-25-16□□-□□	44	250	160	1.0
AUXE 44-25-20□□-□□	44	250	200	1.1
AUXE 44-25-25□□-□□	44	250	250	1.3
AUXE 44-30-16□□-□□	44	300	160	1.1
AUXE 44-30-20□□-□□	44	300	200	1.3
AUXE 44-30-25□□-□□	44	300	250	1.5
AUXE 44-30-30□□-□□	44	300	300	1.7
AUXE 44-36-16□□-□□	44	360	160	1.2
AUXE 44-36-20□□-□□	44	360	200	1.5
AUXE 44-36-25□□-□□	44	360	250	1.7
AUXE 44-36-30□□-□□	44	360	300	2.0
AUXE 44-36-36□□-□□	44	360	360	2.3
AUXE 44-43-16□□-□□	44	430	160	1.5
AUXE 44-43-20□□-□□	44	430	200	1.7
AUXE 44-43-25□□-□□	44	430	250	2.0
AUXE 44-43-30□□-□□	44	430	300	2.3
AUXE 44-43-36□□-□□	44	430	360	2.6
AUXE 44-43-43□□-□□	44	430	430	3.0
AUXE 44-50-30□□-□□	44	500	300	2.6
AUXE 44-50-36□□-□□	44	500	360	3.0
AUXE 44-50-43□□-□□	44	500	430	3.4
AUXE 44-50-50□□-□□	44	500	500	3.9
AUXE 44-60-36□□-□□	44	600	360	3.5
AUXE 44-60-43□□-□□	44	600	430	4.0

Product no.	H	W	D	Weight (kg)
AUXE 66-16-16□□-□□	66	160	160	0.9
AUXE 66-20-16□□-□□	66	200	160	1.0
AUXE 66-20-20□□-□□	66	200	200	1.1
AUXE 66-25-16□□-□□	66	250	160	1.2
AUXE 66-25-20□□-□□	66	250	200	1.3
AUXE 66-25-25□□-□□	66	250	250	1.5
AUXE 66-30-16□□-□□	66	300	160	1.3
AUXE 66-30-20□□-□□	66	300	200	1.5
AUXE 66-30-25□□-□□	66	300	250	1.7
AUXE 66-30-30□□-□□	66	300	300	2.0
AUXE 66-36-16□□-□□	66	360	160	1.4
AUXE 66-36-20□□-□□	66	360	200	1.7
AUXE 66-36-25□□-□□	66	360	250	2.0
AUXE 66-36-30□□-□□	66	360	300	2.2
AUXE 66-36-36□□-□□	66	360	360	2.6
AUXE 66-43-16□□-□□	66	430	160	1.8
AUXE 66-43-20□□-□□	66	430	200	2.0
AUXE 66-43-25□□-□□	66	430	250	2.3
AUXE 66-43-30□□-□□	66	430	300	2.6
AUXE 66-43-36□□-□□	66	430	360	3.0
AUXE 66-43-43□□-□□	66	430	430	3.4
AUXE 66-50-30□□-□□	66	500	300	2.9
AUXE 66-50-36□□-□□	66	500	360	3.3
AUXE 66-50-43□□-□□	66	500	430	3.8
AUXE 66-50-50□□-□□	66	500	500	4.3
AUXE 66-60-36□□-□□	66	600	360	3.8
AUXE 66-60-43□□-□□	66	600	430	4.4

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUXE 88-16-16□□-□□	88	160	160	1.0
AUXE 88-20-16□□-□□	88	200	160	1.1
AUXE 88-20-20□□-□□	88	200	200	1.3
AUXE 88-25-16□□-□□	88	250	160	1.3
AUXE 88-25-20□□-□□	88	250	200	1.5
AUXE 88-25-25□□-□□	88	250	250	1.7
AUXE 88-30-16□□-□□	88	300	160	1.5
AUXE 88-30-20□□-□□	88	300	200	1.7
AUXE 88-30-25□□-□□	88	300	250	1.9
AUXE 88-30-30□□-□□	88	300	300	2.2
AUXE 88-36-16□□-□□	88	360	160	1.6
AUXE 88-36-20□□-□□	88	360	200	1.9
AUXE 88-36-25□□-□□	88	360	250	2.2
AUXE 88-36-30□□-□□	88	360	300	2.4
AUXE 88-36-36□□-□□	88	360	360	2.8
AUXE 88-43-16□□-□□	88	430	160	1.9
AUXE 88-43-20□□-□□	88	430	200	2.2
AUXE 88-43-25□□-□□	88	430	250	2.5
AUXE 88-43-30□□-□□	88	430	300	2.8
AUXE 88-43-36□□-□□	88	430	360	3.2
AUXE 88-43-43□□-□□	88	430	430	3.6
AUXE 88-50-30□□-□□	88	500	300	3.2
AUXE 88-50-36□□-□□	88	500	360	3.6
AUXE 88-50-43□□-□□	88	500	430	4.1
AUXE 88-50-50□□-□□	88	500	500	4.6
AUXE 88-60-36□□-□□	88	600	360	4.1
AUXE 88-60-43□□-□□	88	600	430	4.7
NEW AUXE 99-16-16□□-□□	99	160	160	1.0
NEW AUXE 99-20-16□□-□□	99	200	160	1.1
NEW AUXE 99-20-20□□-□□	99	200	200	1.3
NEW AUXE 99-25-16□□-□□	99	250	160	1.3
NEW AUXE 99-25-20□□-□□	99	250	200	1.5
NEW AUXE 99-25-25□□-□□	99	250	250	1.7
NEW AUXE 99-30-16□□-□□	99	300	160	1.5
NEW AUXE 99-30-20□□-□□	99	300	200	1.7
NEW AUXE 99-30-25□□-□□	99	300	250	1.9
NEW AUXE 99-30-30□□-□□	99	300	300	2.2
NEW AUXE 99-36-16□□-□□	99	360	160	1.7
NEW AUXE 99-36-20□□-□□	99	360	200	1.9
NEW AUXE 99-36-25□□-□□	99	360	250	2.2
NEW AUXE 99-36-30□□-□□	99	360	300	2.5
NEW AUXE 99-36-36□□-□□	99	360	360	2.8
NEW AUXE 99-43-16□□-□□	99	430	160	2.0
NEW AUXE 99-43-20□□-□□	99	430	200	2.2
NEW AUXE 99-43-25□□-□□	99	430	250	2.5
NEW AUXE 99-43-30□□-□□	99	430	300	2.9
NEW AUXE 99-43-36□□-□□	99	430	360	3.3
NEW AUXE 99-43-43□□-□□	99	430	430	3.7
NEW AUXE 99-50-30□□-□□	99	500	300	3.2
NEW AUXE 99-50-36□□-□□	99	500	360	3.7
NEW AUXE 99-50-43□□-□□	99	500	430	4.2
NEW AUXE 99-50-50□□-□□	99	500	500	4.7
NEW AUXE 99-60-36□□-□□	99	600	360	4.2
NEW AUXE 99-60-43□□-□□	99	600	430	4.8

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUXE115-16-16□□-□□	115	160	160	1.1
NEW AUXE115-20-16□□-□□	115	200	160	1.2
NEW AUXE115-20-20□□-□□	115	200	200	1.4
NEW AUXE115-25-16□□-□□	115	250	160	1.4
NEW AUXE115-25-20□□-□□	115	250	200	1.6
NEW AUXE115-25-25□□-□□	115	250	250	1.8
NEW AUXE115-30-16□□-□□	115	300	160	1.6
NEW AUXE115-30-20□□-□□	115	300	200	1.8
NEW AUXE115-30-25□□-□□	115	300	250	2.1
NEW AUXE115-30-30□□-□□	115	300	300	2.3
NEW AUXE115-36-16□□-□□	115	360	160	1.8
NEW AUXE115-36-20□□-□□	115	360	200	2.0
NEW AUXE115-36-25□□-□□	115	360	250	2.3
NEW AUXE115-36-30□□-□□	115	360	300	2.6
NEW AUXE115-36-36□□-□□	115	360	360	3.0
NEW AUXE115-43-16□□-□□	115	430	160	2.1
NEW AUXE115-43-20□□-□□	115	430	200	2.4
NEW AUXE115-43-25□□-□□	115	430	250	2.7
NEW AUXE115-43-30□□-□□	115	430	300	3.0
NEW AUXE115-43-36□□-□□	115	430	360	3.4
NEW AUXE115-43-43□□-□□	115	430	430	3.9
NEW AUXE115-50-30□□-□□	115	500	300	3.4
NEW AUXE115-50-36□□-□□	115	500	360	3.9
NEW AUXE115-50-43□□-□□	115	500	430	4.4
NEW AUXE115-50-50□□-□□	115	500	500	4.9
NEW AUXE115-60-36□□-□□	115	600	360	4.5
NEW AUXE115-60-43□□-□□	115	600	430	5.0
AUXE133-16-16□□-□□	132.5	160	160	1.3
AUXE133-20-16□□-□□	132.5	200	160	1.5
AUXE133-20-20□□-□□	132.5	200	200	1.7
AUXE133-25-16□□-□□	132.5	250	160	1.7
AUXE133-25-20□□-□□	132.5	250	200	1.9
AUXE133-25-25□□-□□	132.5	250	250	2.2
AUXE133-30-16□□-□□	132.5	300	160	1.9
AUXE133-30-20□□-□□	132.5	300	200	2.1
AUXE133-30-25□□-□□	132.5	300	250	2.4
AUXE133-30-30□□-□□	132.5	300	300	2.7
AUXE133-36-16□□-□□	132.5	360	160	2.2
AUXE133-36-20□□-□□	132.5	360	200	2.4
AUXE133-36-25□□-□□	132.5	360	250	2.7
AUXE133-36-30□□-□□	132.5	360	300	3.1
AUXE133-36-36□□-□□	132.5	360	360	3.4
AUXE133-43-16□□-□□	132.5	430	160	2.5
AUXE133-43-20□□-□□	132.5	430	200	2.8
AUXE133-43-25□□-□□	132.5	430	250	3.1
AUXE133-43-30□□-□□	132.5	430	300	3.5
AUXE133-43-36□□-□□	132.5	430	360	3.9
AUXE133-43-43□□-□□	132.5	430	430	4.4
AUXE133-50-30□□-□□	132.5	500	300	3.9
AUXE133-50-36□□-□□	132.5	500	360	4.4
AUXE133-50-43□□-□□	132.5	500	430	4.9
AUXE133-50-50□□-□□	132.5	500	500	5.5
AUXE133-60-36□□-□□	132.5	600	360	5.0
AUXE133-60-43□□-□□	132.5	600	430	5.7

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUXE149-16-16□□-□□	149	160	160	1.3
NEW AUXE149-20-16□□-□□	149	200	160	1.5
NEW AUXE149-20-20□□-□□	149	200	200	1.7
NEW AUXE149-25-16□□-□□	149	250	160	1.7
NEW AUXE149-25-20□□-□□	149	250	200	2.0
NEW AUXE149-25-25□□-□□	149	250	250	2.2
NEW AUXE149-30-16□□-□□	149	300	160	2.0
NEW AUXE149-30-20□□-□□	149	300	200	2.2
NEW AUXE149-30-25□□-□□	149	300	250	2.5
NEW AUXE149-30-30□□-□□	149	300	300	2.8
NEW AUXE149-36-16□□-□□	149	360	160	2.2
NEW AUXE149-36-20□□-□□	149	360	200	2.5
NEW AUXE149-36-25□□-□□	149	360	250	2.8
NEW AUXE149-36-30□□-□□	149	360	300	3.2
NEW AUXE149-36-36□□-□□	149	360	360	3.6
NEW AUXE149-43-16□□-□□	149	430	160	2.6
NEW AUXE149-43-20□□-□□	149	430	200	2.9
NEW AUXE149-43-25□□-□□	149	430	250	3.3
NEW AUXE149-43-30□□-□□	149	430	300	3.6
NEW AUXE149-43-36□□-□□	149	430	360	4.1
NEW AUXE149-43-43□□-□□	149	430	430	4.6
NEW AUXE149-50-30□□-□□	149	500	300	4.1
NEW AUXE149-50-36□□-□□	149	500	360	4.6
NEW AUXE149-50-43□□-□□	149	500	430	5.1
NEW AUXE149-50-50□□-□□	149	500	500	5.7
NEW AUXE149-60-36□□-□□	149	600	360	5.2
NEW AUXE149-60-43□□-□□	149	600	430	5.9
AUXE177-16-16□□-□□	177	160	160	1.5
AUXE177-20-16□□-□□	177	200	160	1.7
AUXE177-20-20□□-□□	177	200	200	1.9
AUXE177-25-16□□-□□	177	250	160	1.9
AUXE177-25-20□□-□□	177	250	200	2.2
AUXE177-25-25□□-□□	177	250	250	2.5
AUXE177-30-16□□-□□	177	300	160	2.2
AUXE177-30-20□□-□□	177	300	200	2.4
AUXE177-30-25□□-□□	177	300	250	2.8
AUXE177-30-30□□-□□	177	300	300	3.1
AUXE177-36-16□□-□□	177	360	160	2.5
AUXE177-36-20□□-□□	177	360	200	2.8
AUXE177-36-25□□-□□	177	360	250	3.1
AUXE177-36-30□□-□□	177	360	300	3.5
AUXE177-36-36□□-□□	177	360	360	3.9
AUXE177-43-16□□-□□	177	430	160	2.9
AUXE177-43-20□□-□□	177	430	200	3.2
AUXE177-43-25□□-□□	177	430	250	3.6
AUXE177-43-30□□-□□	177	430	300	4.0
AUXE177-43-36□□-□□	177	430	360	4.5
AUXE177-43-43□□-□□	177	430	430	5.0
AUXE177-50-30□□-□□	177	500	300	4.4
AUXE177-50-36□□-□□	177	500	360	5.0
AUXE177-50-43□□-□□	177	500	430	5.6
AUXE177-50-50□□-□□	177	500	500	6.2
AUXE177-60-36□□-□□	177	600	360	5.7
AUXE177-60-43□□-□□	177	600	430	6.4

Product no.	H	W	D	Weight (kg)
NEW AUXE222-16-16□□-□□	221.5	161	161	1.7
NEW AUXE222-20-16□□-□□	221.5	201	161	2.0
NEW AUXE222-20-20□□-□□	221.5	201	201	2.2
NEW AUXE222-25-16□□-□□	221.5	251	161	2.3
NEW AUXE222-25-20□□-□□	221.5	251	201	2.5
NEW AUXE222-25-25□□-□□	221.5	251	251	2.9
NEW AUXE222-30-16□□-□□	221.5	301	161	2.6
NEW AUXE222-30-20□□-□□	221.5	301	201	2.8
NEW AUXE222-30-25□□-□□	221.5	301	251	3.2
NEW AUXE222-30-30□□-□□	221.5	301	301	3.6
NEW AUXE222-36-16□□-□□	221.5	361	161	2.9
NEW AUXE222-36-20□□-□□	221.5	361	201	3.2
NEW AUXE222-36-25□□-□□	221.5	361	251	3.6
NEW AUXE222-36-30□□-□□	221.5	361	301	4.0
NEW AUXE222-36-36□□-□□	221.5	361	361	4.5
NEW AUXE222-43-16□□-□□	221.5	431	161	3.3
NEW AUXE222-43-20□□-□□	221.5	431	201	3.7
NEW AUXE222-43-25□□-□□	221.5	431	251	4.1
NEW AUXE222-43-30□□-□□	221.5	431	301	4.5
NEW AUXE222-43-36□□-□□	221.5	431	361	5.1
NEW AUXE222-43-43□□-□□	221.5	431	431	5.7
NEW AUXE222-50-30□□-□□	221.5	501	301	5.1
NEW AUXE222-50-36□□-□□	221.5	501	361	5.6
NEW AUXE222-50-43□□-□□	221.5	501	431	6.3
NEW AUXE222-50-50□□-□□	221.5	501	501	6.9
NEW AUXE222-60-36□□-□□	221.5	601	361	6.4
NEW AUXE222-60-43□□-□□	221.5	601	431	7.1
NEW AUXE266-16-16□□-□□	265.9	161	161	2.2
NEW AUXE266-20-16□□-□□	265.9	201	161	2.4
NEW AUXE266-20-20□□-□□	265.9	201	201	2.7
NEW AUXE266-25-16□□-□□	265.9	251	161	2.8
NEW AUXE266-25-20□□-□□	265.9	251	201	3.1
NEW AUXE266-25-25□□-□□	265.9	251	251	3.5
NEW AUXE266-30-16□□-□□	265.9	301	161	3.2
NEW AUXE266-30-20□□-□□	265.9	301	201	3.5
NEW AUXE266-30-25□□-□□	265.9	301	251	3.9
NEW AUXE266-30-30□□-□□	265.9	301	301	4.4
NEW AUXE266-36-16□□-□□	265.9	361	161	3.6
NEW AUXE266-36-20□□-□□	265.9	361	201	4.0
NEW AUXE266-36-25□□-□□	265.9	361	251	4.4
NEW AUXE266-36-30□□-□□	265.9	361	301	4.9
NEW AUXE266-36-36□□-□□	265.9	361	361	5.4
NEW AUXE266-43-16□□-□□	265.9	431	161	4.1
NEW AUXE266-43-20□□-□□	265.9	431	201	4.5
NEW AUXE266-43-25□□-□□	265.9	431	251	5.0
NEW AUXE266-43-30□□-□□	265.9	431	301	5.5
NEW AUXE266-43-36□□-□□	265.9	431	361	6.1
NEW AUXE266-43-43□□-□□	265.9	431	431	6.8
NEW AUXE266-50-30□□-□□	265.9	501	301	6.1
NEW AUXE266-50-36□□-□□	265.9	501	361	6.8
NEW AUXE266-50-43□□-□□	265.9	501	431	7.5
NEW AUXE266-50-50□□-□□	265.9	501	501	8.3
NEW AUXE266-60-36□□-□□	265.9	601	361	7.7
NEW AUXE266-60-43□□-□□	265.9	601	431	8.5

MAR series

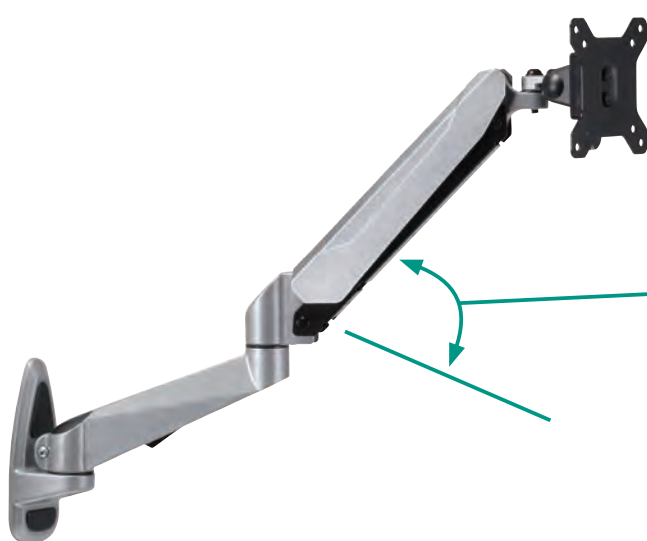
WALL MOUNT SUPPORT ARM



- Wall mount support arm move easily to the preferred positions.
- Suitable for command panel on machinery and touch panel controller. Easy installation onto the wall as well.
- Hole pitch on the monitor bracket is compatible with VESA mount standards. Possible to mount PC display without modification.

MAR specifications

MAR-312W



Adjustable bolt for up/down direction on arm is firmly set initially.
Adjust the movement according to the installed device.

Arm can move in up/down direction.

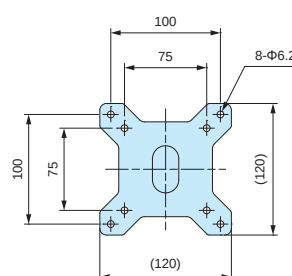
Arm full length ~ 612mm

Max load : 6.5kg (including product weight, adjustable bolt firmly locked)

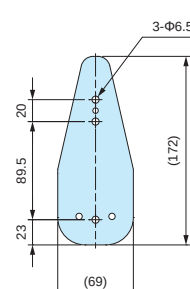
Material : Steel • Plastic • Aluminium diecast

*Wall mounting screws included.

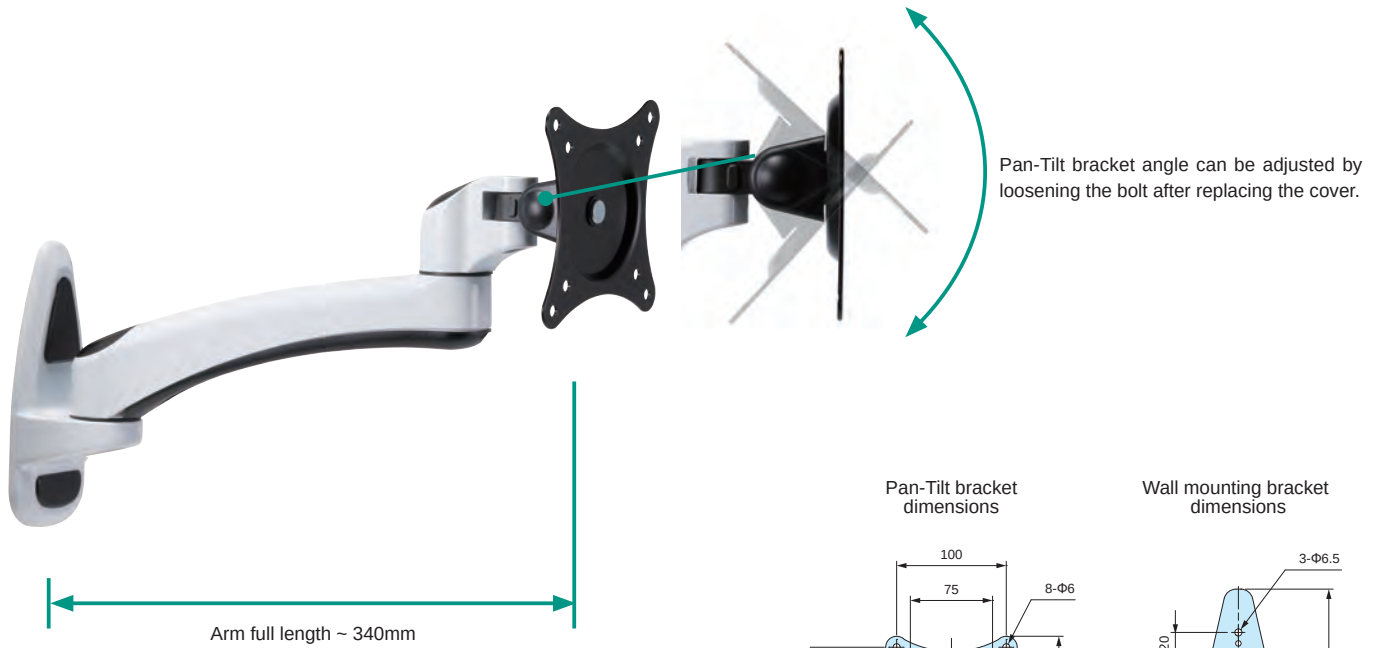
Pan-Tilt bracket dimensions



Wall mounting bracket dimensions

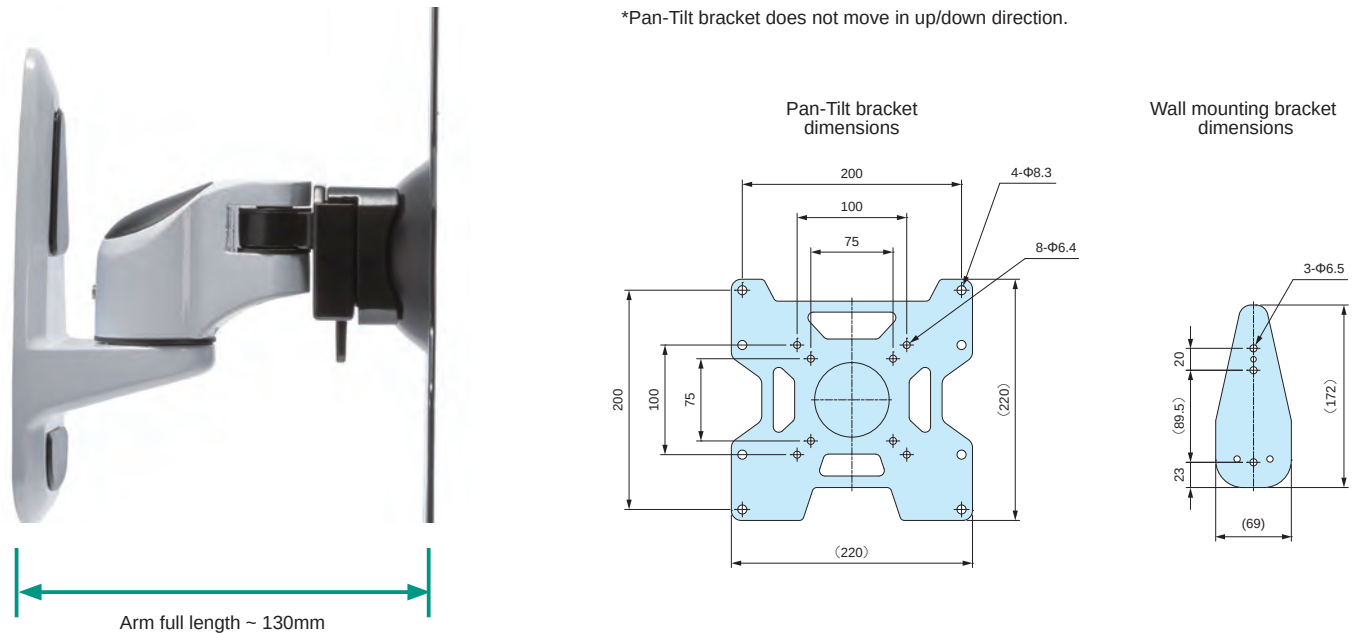


MAR-111W



Max load : 8kg (including product weight)
Material : Steel • Plastic • Aluminium diecast
*Wall mounting screws included.

MAR-110W



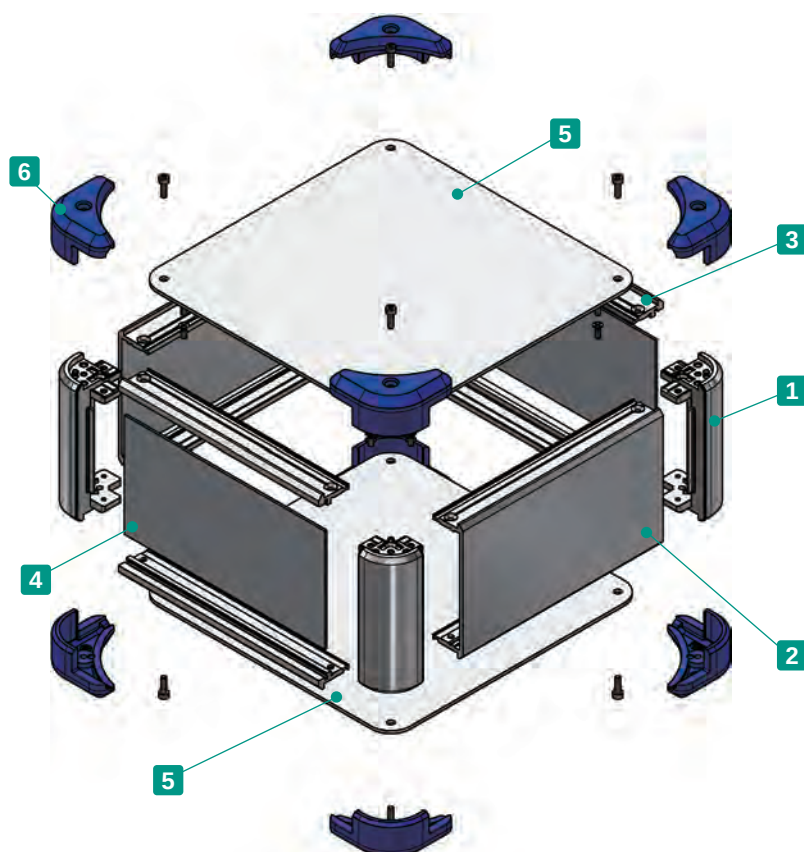
Max load : 8kg (including product weight)
Material : Steel • Plastic • Aluminium diecast
*Wall mounting screws included.

Product no. / Details

Product no.	Arm full length	Arm color	Weight (kg)
MAR-312W	~ 612mm	Metallic gray	2.2
MAR-111W	~ 340mm	White / Black	1.0
MAR-110W	~ 130mm	White / Black	1.0



- Rugged design aluminium enclosure with TPE (Elastomer) corner guards. Corner guards also act as non-slip rubber feet.
- A large selection of 430 different sizes to choose from.
- A total of 8 selectable color combinations with 4 corner guard colors - Black, Gray, Navy and Red - and 2 enclosure colors - Silver and Black anodized.
- Versatile aluminium case suitable for use as measuring instrument, controller, industrial embedded computer, power supply, audio amplifier, and more.



Included screws

- Top / Bottom cover (not applicable to some models)
M3-5 original trapezoid head (hex) &
Nickel plated / Black trivalent chromate x 4-8 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Corner guard
M3-10 hex & Black trivalent chromate x 8 pcs
- * Hex wrench included.

Recommended torque : $\begin{cases} \text{M3-10 hex : } 0.2\text{N} \cdot \text{m} \\ \text{Other screws : } 0.3 \sim 0.6\text{N} \cdot \text{m} \end{cases}$

* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.

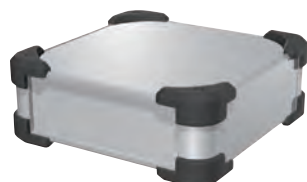
Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel	2	Aluminium A1100P	Silver • Black / Anodized
5	Top • bottom cover	2	Aluminium A1100P	Silver • Black / Anodized
6	Corner guard	8	TPE (Elastomer)	Black • Gray • Navy • Red

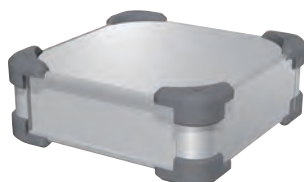
Color

Please choose from the color combinations listed below.

S B (Silver / Black)



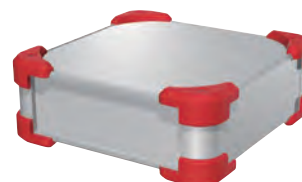
S G (Silver / Gray)



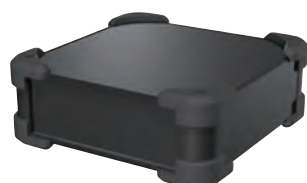
S N (Silver / Navy)



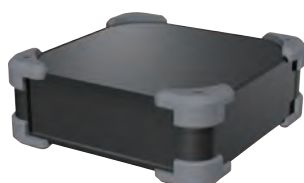
S R (Silver / Red)



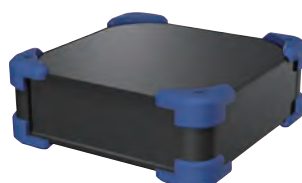
B B (Black / Black)



B G (Black / Gray)



B N (Black / Navy)



B R (Black / Red)



Product Number

To determine a product number, fill H-W-D dimensions and select Color code in the following blank boxes.

AUG



-



-



-



H-W-D dimensions

See page 277~280 for dimensions / product no.

Color

SB • SG • SN • SR
BB • BG • BN • BR

Numbering example :

If looking at "H100 x W308 x D208mm, Color type BR"

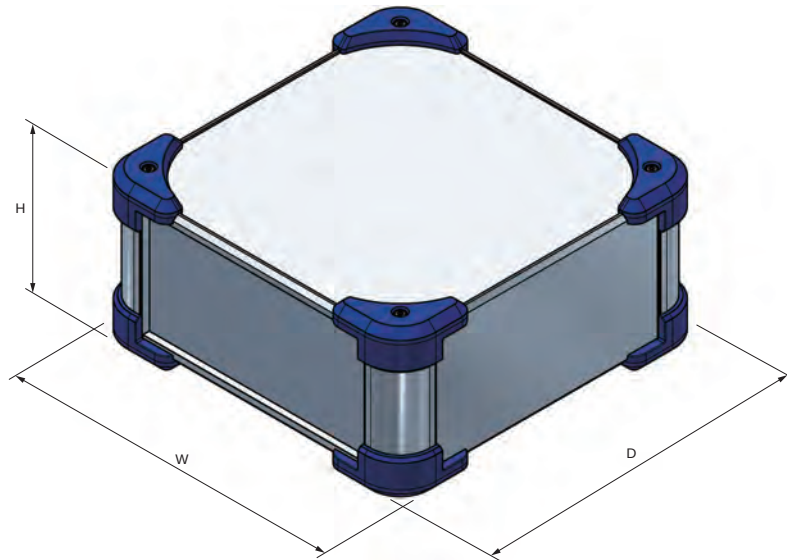
➔ AUG 88-30-20-BR

Accessories (Optional parts)

Mounting plate AUC series
See page 293 ~ 294Elastomer carrying handle FM200
See websiteTilt leg TLW series
See page 239

AUG dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUG 44-16-16-□□	56	168	168	0.7
AUG 44-16-20-□□	56	168	208	0.8
AUG 44-16-25-□□	56	168	258	1.0
AUG 44-16-30-□□	56	168	308	1.1
AUG 44-16-36-□□	56	168	368	1.3
AUG 44-16-43-□□	56	168	438	1.5
AUG 44-20-16-□□	56	208	168	0.8
AUG 44-20-20-□□	56	208	208	1.0
AUG 44-20-25-□□	56	208	258	1.1
AUG 44-20-30-□□	56	208	308	1.3
AUG 44-20-36-□□	56	208	368	1.5
AUG 44-20-43-□□	56	208	438	1.7
AUG 44-25-16-□□	56	258	168	1.0
AUG 44-25-20-□□	56	258	208	1.1
AUG 44-25-25-□□	56	258	258	1.3
AUG 44-25-30-□□	56	258	308	1.5
AUG 44-25-36-□□	56	258	368	1.7
AUG 44-25-43-□□	56	258	438	2.0
AUG 44-30-16-□□	56	308	168	1.1
AUG 44-30-20-□□	56	308	208	1.3
AUG 44-30-25-□□	56	308	258	1.5
AUG 44-30-30-□□	56	308	308	1.7
AUG 44-30-36-□□	56	308	368	2.0
AUG 44-30-43-□□	56	308	438	2.3
AUG 44-30-50-□□	56	308	508	2.6
AUG 44-36-16-□□	56	368	168	1.3
AUG 44-36-20-□□	56	368	208	1.5
AUG 44-36-25-□□	56	368	258	1.7
AUG 44-36-30-□□	56	368	308	2.0
AUG 44-36-36-□□	56	368	368	2.3
AUG 44-36-43-□□	56	368	438	2.7
AUG 44-36-50-□□	56	368	508	3.0
AUG 44-43-16-□□	56	438	168	1.5
AUG 44-43-20-□□	56	438	208	1.7
AUG 44-43-25-□□	56	438	258	2.0
AUG 44-43-30-□□	56	438	308	2.3
AUG 44-43-36-□□	56	438	368	2.6
AUG 44-43-43-□□	56	438	438	3.0
AUG 44-43-50-□□	56	438	508	3.4
AUG 44-50-30-□□	56	508	308	2.6
AUG 44-50-36-□□	56	508	368	3.0
AUG 44-50-43-□□	56	508	438	3.4
AUG 44-50-50-□□	56	508	508	3.9

Product no.	H	W	D	Weight (kg)
AUG 66-16-16-□□	78	168	168	0.9
AUG 66-16-20-□□	78	168	208	1.0
AUG 66-16-25-□□	78	168	258	1.2
AUG 66-16-30-□□	78	168	308	1.3
AUG 66-16-36-□□	78	168	368	1.5
AUG 66-16-43-□□	78	168	438	1.8
AUG 66-20-16-□□	78	208	168	1.0
AUG 66-20-20-□□	78	208	208	1.2
AUG 66-20-25-□□	78	208	258	1.3
AUG 66-20-30-□□	78	208	308	1.5
AUG 66-20-36-□□	78	208	368	1.7
AUG 66-20-43-□□	78	208	438	2.0
AUG 66-25-16-□□	78	258	168	1.2
AUG 66-25-20-□□	78	258	208	1.3
AUG 66-25-25-□□	78	258	258	1.5
AUG 66-25-30-□□	78	258	308	1.7
AUG 66-25-36-□□	78	258	368	2.0
AUG 66-25-43-□□	78	258	438	2.3
AUG 66-30-16-□□	78	308	168	1.3
AUG 66-30-20-□□	78	308	208	1.5
AUG 66-30-25-□□	78	308	258	1.7
AUG 66-30-30-□□	78	308	308	2.0
AUG 66-30-36-□□	78	308	368	2.2
AUG 66-30-43-□□	78	308	438	2.6
AUG 66-30-50-□□	78	308	508	2.9
AUG 66-36-16-□□	78	368	168	1.5
AUG 66-36-20-□□	78	368	208	1.7
AUG 66-36-25-□□	78	368	258	2.0
AUG 66-36-30-□□	78	368	308	2.2
AUG 66-36-36-□□	78	368	368	2.5
AUG 66-36-43-□□	78	368	438	2.9
AUG 66-36-50-□□	78	368	508	3.3
AUG 66-43-16-□□	78	438	168	1.7
AUG 66-43-20-□□	78	438	208	2.0
AUG 66-43-25-□□	78	438	258	2.3
AUG 66-43-30-□□	78	438	308	2.6
AUG 66-43-36-□□	78	438	368	2.9
AUG 66-43-43-□□	78	438	438	3.3
AUG 66-43-50-□□	78	438	508	3.8
AUG 66-50-30-□□	78	508	308	2.9
AUG 66-50-36-□□	78	508	368	3.3
AUG 66-50-43-□□	78	508	438	3.8
AUG 66-50-50-□□	78	508	508	4.2

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUG 88-16-16-□□	100	168	168	1.0
AUG 88-16-20-□□	100	168	208	1.1
AUG 88-16-25-□□	100	168	258	1.3
AUG 88-16-30-□□	100	168	308	1.5
AUG 88-16-36-□□	100	168	368	1.7
AUG 88-16-43-□□	100	168	438	1.9
AUG 88-20-16-□□	100	208	168	1.1
AUG 88-20-20-□□	100	208	208	1.3
AUG 88-20-25-□□	100	208	258	1.5
AUG 88-20-30-□□	100	208	308	1.7
AUG 88-20-36-□□	100	208	368	1.9
AUG 88-20-43-□□	100	208	438	2.2
AUG 88-25-16-□□	100	258	168	1.3
AUG 88-25-20-□□	100	258	208	1.5
AUG 88-25-25-□□	100	258	258	1.7
AUG 88-25-30-□□	100	258	308	1.9
AUG 88-25-36-□□	100	258	368	2.2
AUG 88-25-43-□□	100	258	438	2.5
AUG 88-30-16-□□	100	308	168	1.4
AUG 88-30-20-□□	100	308	208	1.6
AUG 88-30-25-□□	100	308	258	1.9
AUG 88-30-30-□□	100	308	308	2.1
AUG 88-30-36-□□	100	308	368	2.4
AUG 88-30-43-□□	100	308	438	2.8
AUG 88-30-50-□□	100	308	508	3.1
AUG 88-36-16-□□	100	368	168	1.6
AUG 88-36-20-□□	100	368	208	1.8
AUG 88-36-25-□□	100	368	258	2.1
AUG 88-36-30-□□	100	368	308	2.4
AUG 88-36-36-□□	100	368	368	2.7
AUG 88-36-43-□□	100	368	438	3.2
AUG 88-36-50-□□	100	368	508	3.5
AUG 88-43-16-□□	100	438	168	1.9
AUG 88-43-20-□□	100	438	208	2.1
AUG 88-43-25-□□	100	438	258	2.4
AUG 88-43-30-□□	100	438	308	2.8
AUG 88-43-36-□□	100	438	368	3.1
AUG 88-43-43-□□	100	438	438	3.6
AUG 88-43-50-□□	100	438	508	4.0
AUG 88-50-30-□□	100	508	308	3.1
AUG 88-50-36-□□	100	508	368	3.5
AUG 88-50-43-□□	100	508	438	4.0
AUG 88-50-50-□□	100	508	508	4.5
NEW AUG 99-16-16-□□	111	168	168	1.0
NEW AUG 99-16-20-□□	111	168	208	1.1
NEW AUG 99-16-25-□□	111	168	258	1.3
NEW AUG 99-16-30-□□	111	168	308	1.5
NEW AUG 99-16-36-□□	111	168	368	1.7
NEW AUG 99-16-43-□□	111	168	438	2.0
NEW AUG 99-20-16-□□	111	208	168	1.1
NEW AUG 99-20-20-□□	111	208	208	1.3
NEW AUG 99-20-25-□□	111	208	258	1.5
NEW AUG 99-20-30-□□	111	208	308	1.7
NEW AUG 99-20-36-□□	111	208	368	1.9
NEW AUG 99-20-43-□□	111	208	438	2.2
NEW AUG 99-25-16-□□	111	258	168	1.3
NEW AUG 99-25-20-□□	111	258	208	1.4
NEW AUG 99-25-25-□□	111	258	258	1.7
NEW AUG 99-25-30-□□	111	258	308	1.9
NEW AUG 99-25-36-□□	111	258	368	2.2
NEW AUG 99-25-43-□□	111	258	438	2.5
NEW AUG 99-30-16-□□	111	308	168	1.4
NEW AUG 99-30-20-□□	111	308	208	1.6
NEW AUG 99-30-25-□□	111	308	258	1.9
NEW AUG 99-30-30-□□	111	308	308	2.1

Product no.	H	W	D	Weight (kg)
NEW AUG 99-30-36-□□	111	308	368	2.4
NEW AUG 99-30-43-□□	111	308	438	2.8
NEW AUG 99-30-50-□□	111	308	508	3.2
NEW AUG 99-36-16-□□	111	368	168	1.6
NEW AUG 99-36-20-□□	111	368	208	1.8
NEW AUG 99-36-25-□□	111	368	258	2.1
NEW AUG 99-36-30-□□	111	368	308	2.4
NEW AUG 99-36-36-□□	111	368	368	2.8
NEW AUG 99-36-43-□□	111	368	438	3.2
NEW AUG 99-36-50-□□	111	368	508	3.6
NEW AUG 99-43-16-□□	111	438	168	1.9
NEW AUG 99-43-20-□□	111	438	208	2.1
NEW AUG 99-43-25-□□	111	438	258	2.5
NEW AUG 99-43-30-□□	111	438	308	2.8
NEW AUG 99-43-36-□□	111	438	368	3.2
NEW AUG 99-43-43-□□	111	438	438	3.6
NEW AUG 99-43-50-□□	111	438	508	4.1
NEW AUG 99-50-30-□□	111	508	308	3.1
NEW AUG 99-50-36-□□	111	508	368	3.5
NEW AUG 99-50-43-□□	111	508	438	4.0
NEW AUG 99-50-50-□□	111	508	508	4.5
NEW AUG115-16-16-□□	127	168	168	1.0
NEW AUG115-16-20-□□	127	168	208	1.2
NEW AUG115-16-25-□□	127	168	258	1.4
NEW AUG115-16-30-□□	127	168	308	1.6
NEW AUG115-16-36-□□	127	168	368	1.8
NEW AUG115-16-43-□□	127	168	438	2.1
NEW AUG115-20-16-□□	127	208	168	1.2
NEW AUG115-20-20-□□	127	208	208	1.4
NEW AUG115-20-25-□□	127	208	258	1.6
NEW AUG115-20-30-□□	127	208	308	1.8
NEW AUG115-20-36-□□	127	208	368	2.0
NEW AUG115-20-43-□□	127	208	438	2.3
NEW AUG115-25-16-□□	127	258	168	1.3
NEW AUG115-25-20-□□	127	258	208	1.5
NEW AUG115-25-25-□□	127	258	258	1.8
NEW AUG115-25-30-□□	127	258	308	2.0
NEW AUG115-25-36-□□	127	258	368	2.3
NEW AUG115-25-43-□□	127	258	438	2.7
NEW AUG115-30-16-□□	127	308	168	1.5
NEW AUG115-30-20-□□	127	308	208	1.7
NEW AUG115-30-25-□□	127	308	258	2.0
NEW AUG115-30-30-□□	127	308	308	2.3
NEW AUG115-30-36-□□	127	308	368	2.6
NEW AUG115-30-43-□□	127	308	438	3.0
NEW AUG115-30-50-□□	127	308	508	3.3
NEW AUG115-36-16-□□	127	368	168	1.7
NEW AUG115-36-20-□□	127	368	208	2.0
NEW AUG115-36-25-□□	127	368	258	2.2
NEW AUG115-36-30-□□	127	368	308	2.5
NEW AUG115-36-36-□□	127	368	368	2.9
NEW AUG115-36-43-□□	127	368	438	3.3
NEW AUG115-36-50-□□	127	368	508	3.8
NEW AUG115-43-16-□□	127	438	168	2.0
NEW AUG115-43-20-□□	127	438	208	2.2
NEW AUG115-43-25-□□	127	438	258	2.6
NEW AUG115-43-30-□□	127	438	308	2.9
NEW AUG115-43-36-□□	127	438	368	3.3
NEW AUG115-43-43-□□	127	438	438	3.8
NEW AUG115-43-50-□□	127	438	508	4.2
NEW AUG115-50-30-□□	127	508	308	3.3
NEW AUG115-50-36-□□	127	508	368	3.7
NEW AUG115-50-43-□□	127	508	438	4.2
NEW AUG115-50-50-□□	127	508	508	4.7

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUG133-16-16-□□	144.5	168	168	1.2
AUG133-16-20-□□	144.5	168	208	1.4
AUG133-16-25-□□	144.5	168	258	1.6
AUG133-16-30-□□	144.5	168	308	1.8
AUG133-16-36-□□	144.5	168	368	2.1
AUG133-16-43-□□	144.5	168	438	2.4
AUG133-20-16-□□	144.5	208	168	1.4
AUG133-20-20-□□	144.5	208	208	1.6
AUG133-20-25-□□	144.5	208	258	1.8
AUG133-20-30-□□	144.5	208	308	2.0
AUG133-20-36-□□	144.5	208	368	2.3
AUG133-20-43-□□	144.5	208	438	2.7
AUG133-25-16-□□	144.5	258	168	1.5
AUG133-25-20-□□	144.5	258	208	1.8
AUG133-25-25-□□	144.5	258	258	2.0
AUG133-25-30-□□	144.5	258	308	2.3
AUG133-25-36-□□	144.5	258	368	2.6
AUG133-25-43-□□	144.5	258	438	3.0
AUG133-30-16-□□	144.5	308	168	1.7
AUG133-30-20-□□	144.5	308	208	2.0
AUG133-30-25-□□	144.5	308	258	2.2
AUG133-30-30-□□	144.5	308	308	2.5
AUG133-30-36-□□	144.5	308	368	2.9
AUG133-30-43-□□	144.5	308	438	3.3
AUG133-30-50-□□	144.5	308	508	3.7
AUG133-36-16-□□	144.5	368	168	1.9
AUG133-36-20-□□	144.5	368	208	2.2
AUG133-36-25-□□	144.5	368	258	2.5
AUG133-36-30-□□	144.5	368	308	2.8
AUG133-36-36-□□	144.5	368	368	3.2
AUG133-36-43-□□	144.5	368	438	3.7
AUG133-36-50-□□	144.5	368	508	4.2
AUG133-43-16-□□	144.5	438	168	2.2
AUG133-43-20-□□	144.5	438	208	2.5
AUG133-43-25-□□	144.5	438	258	2.9
AUG133-43-30-□□	144.5	438	308	3.2
AUG133-43-36-□□	144.5	438	368	3.6
AUG133-43-43-□□	144.5	438	438	4.2
AUG133-43-50-□□	144.5	438	508	4.7
AUG133-50-30-□□	144.5	508	308	3.6
AUG133-50-36-□□	144.5	508	368	4.0
AUG133-50-43-□□	144.5	508	438	4.6
AUG133-50-50-□□	144.5	508	508	5.2
NEW AUG149-16-16-□□	161	168	168	1.2
NEW AUG149-16-20-□□	161	168	208	1.4
NEW AUG149-16-25-□□	161	168	258	1.7
NEW AUG149-16-30-□□	161	168	308	1.9
NEW AUG149-16-36-□□	161	168	368	2.2
NEW AUG149-16-43-□□	161	168	438	2.5
NEW AUG149-20-16-□□	161	208	168	1.4
NEW AUG149-20-20-□□	161	208	208	1.6
NEW AUG149-20-25-□□	161	208	258	1.8
NEW AUG149-20-30-□□	161	208	308	2.1
NEW AUG149-20-36-□□	161	208	368	2.4
NEW AUG149-20-43-□□	161	208	438	2.8
NEW AUG149-25-16-□□	161	258	168	1.6
NEW AUG149-25-20-□□	161	258	208	1.8
NEW AUG149-25-25-□□	161	258	258	2.1
NEW AUG149-25-30-□□	161	258	308	2.3
NEW AUG149-25-36-□□	161	258	368	2.7
NEW AUG149-25-43-□□	161	258	438	3.1
NEW AUG149-30-16-□□	161	308	168	1.7
NEW AUG149-30-20-□□	161	308	208	2.0
NEW AUG149-30-25-□□	161	308	258	2.3
NEW AUG149-30-30-□□	161	308	308	2.6

■ Please suffix color code at the end of the product number.

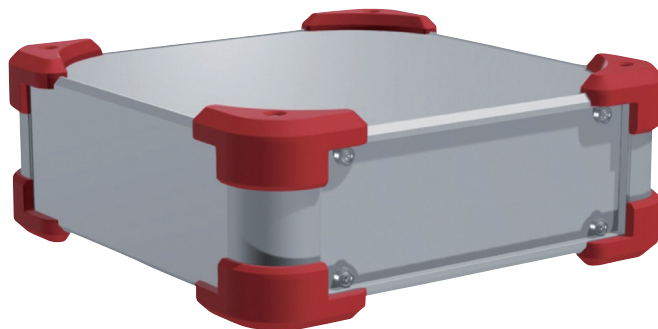
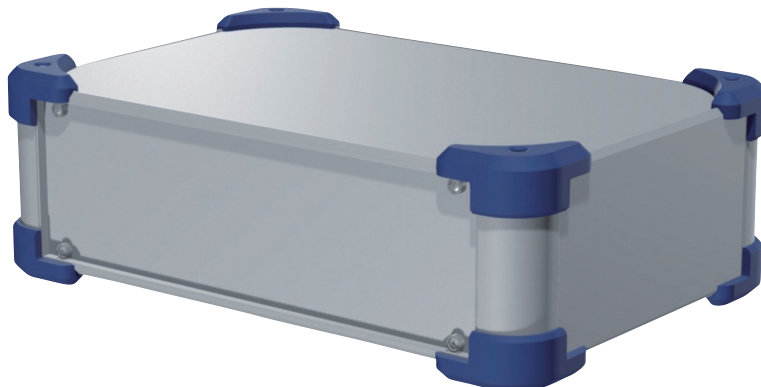
Product no.	H	W	D	Weight (kg)
NEW AUG149-30-36-□□	161	308	368	3.0
NEW AUG149-30-43-□□	161	308	438	3.4
NEW AUG149-30-50-□□	161	308	508	3.9
NEW AUG149-36-16-□□	161	368	168	2.0
NEW AUG149-36-20-□□	161	368	208	2.2
NEW AUG149-36-25-□□	161	368	258	2.6
NEW AUG149-36-30-□□	161	368	308	2.9
NEW AUG149-36-36-□□	161	368	368	3.3
NEW AUG149-36-43-□□	161	368	438	3.8
NEW AUG149-36-50-□□	161	368	508	4.3
NEW AUG149-43-16-□□	161	438	168	2.2
NEW AUG149-43-20-□□	161	438	208	2.5
NEW AUG149-43-25-□□	161	438	258	2.9
NEW AUG149-43-30-□□	161	438	308	3.3
NEW AUG149-43-36-□□	161	438	368	3.7
NEW AUG149-43-43-□□	161	438	438	4.3
NEW AUG149-43-50-□□	161	438	508	4.8
NEW AUG149-50-30-□□	161	508	308	3.7
NEW AUG149-50-36-□□	161	508	368	4.1
NEW AUG149-50-43-□□	161	508	438	4.7
NEW AUG149-50-50-□□	161	508	508	5.3
AUG177-16-16-□□	189	168	168	1.4
AUG177-16-20-□□	189	168	208	1.6
AUG177-16-25-□□	189	168	258	1.8
AUG177-16-30-□□	189	168	308	2.1
AUG177-16-36-□□	189	168	368	2.4
AUG177-16-43-□□	189	168	438	2.8
AUG177-20-16-□□	189	208	168	1.5
AUG177-20-20-□□	189	208	208	1.8
AUG177-20-25-□□	189	208	258	2.0
AUG177-20-30-□□	189	208	308	2.3
AUG177-20-36-□□	189	208	368	2.6
AUG177-20-43-□□	189	208	438	3.0
AUG177-25-16-□□	189	258	168	1.7
AUG177-25-20-□□	189	258	208	2.0
AUG177-25-25-□□	189	258	258	2.3
AUG177-25-30-□□	189	258	308	2.6
AUG177-25-36-□□	189	258	368	2.9
AUG177-25-43-□□	189	258	438	3.4
AUG177-30-16-□□	189	308	168	1.9
AUG177-30-20-□□	189	308	208	2.2
AUG177-30-25-□□	189	308	258	2.5
AUG177-30-30-□□	189	308	308	2.8
AUG177-30-36-□□	189	308	368	3.2
AUG177-30-43-□□	189	308	438	3.7
AUG177-30-50-□□	189	308	508	4.2
AUG177-36-16-□□	189	368	168	2.1
AUG177-36-20-□□	189	368	208	2.4
AUG177-36-25-□□	189	368	258	2.8
AUG177-36-30-□□	189	368	308	3.2
AUG177-36-36-□□	189	368	368	3.6
AUG177-36-43-□□	189	368	438	4.1
AUG177-36-50-□□	189	368	508	4.6
AUG177-43-16-□□	189	438	168	2.4
AUG177-43-20-□□	189	438	208	2.8
AUG177-43-25-□□	189	438	258	3.2
AUG177-43-30-□□	189	438	308	3.6
AUG177-43-36-□□	189	438	368	4.0
AUG177-43-43-□□	189	438	438	4.6
AUG177-43-50-□□	189	438	508	5.1
AUG177-50-30-□□	189	508	308	3.9
AUG177-50-36-□□	189	508	368	4.5
AUG177-50-43-□□	189	508	438	5.1
AUG177-50-50-□□	189	508	508	5.7

Product no. / Details

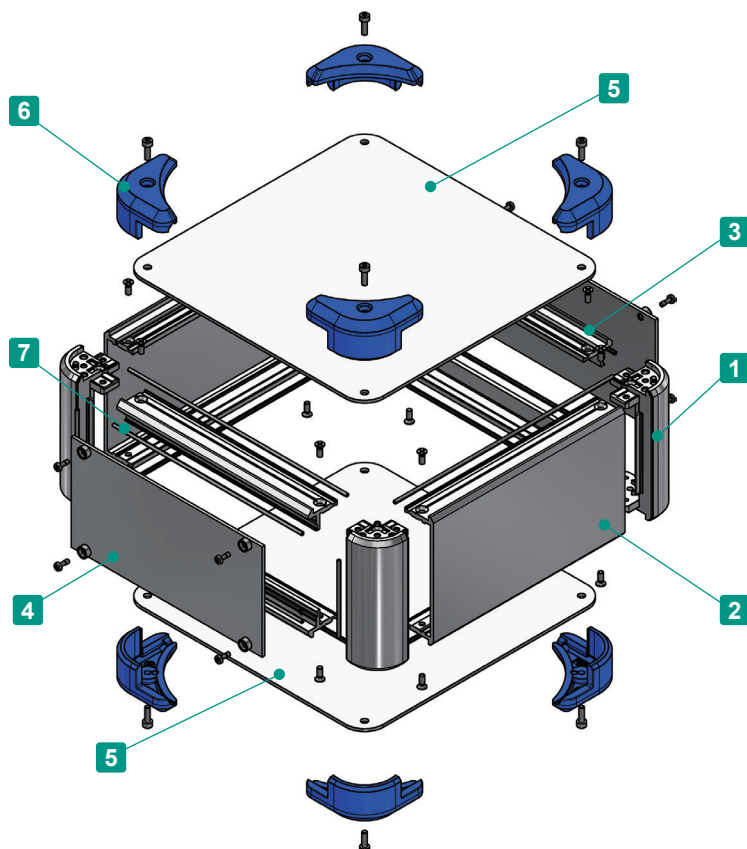
■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUG222-16-16-□□	233.5	168	168	1.6
NEW AUG222-16-20-□□	233.5	168	208	1.8
NEW AUG222-16-25-□□	233.5	168	258	2.1
NEW AUG222-16-30-□□	233.5	168	308	2.4
NEW AUG222-16-36-□□	233.5	168	368	2.8
NEW AUG222-16-43-□□	233.5	168	438	3.2
NEW AUG222-20-16-□□	233.5	208	168	1.8
NEW AUG222-20-20-□□	233.5	208	208	2.0
NEW AUG222-20-25-□□	233.5	208	258	2.3
NEW AUG222-20-30-□□	233.5	208	308	2.6
NEW AUG222-20-36-□□	233.5	208	368	3.0
NEW AUG222-20-43-□□	233.5	208	438	3.5
NEW AUG222-25-16-□□	233.5	258	168	2.0
NEW AUG222-25-20-□□	233.5	258	208	2.3
NEW AUG222-25-25-□□	233.5	258	258	2.6
NEW AUG222-25-30-□□	233.5	258	308	2.9
NEW AUG222-25-36-□□	233.5	258	368	3.3
NEW AUG222-25-43-□□	233.5	258	438	3.8
NEW AUG222-30-16-□□	233.5	308	168	2.2
NEW AUG222-30-20-□□	233.5	308	208	2.5
NEW AUG222-30-25-□□	233.5	308	258	2.8
NEW AUG222-30-30-□□	233.5	308	308	3.2
NEW AUG222-30-36-□□	233.5	308	368	3.6
NEW AUG222-30-43-□□	233.5	308	438	4.2
NEW AUG222-30-50-□□	233.5	308	508	4.7
NEW AUG222-36-16-□□	233.5	368	168	2.4
NEW AUG222-36-20-□□	233.5	368	208	2.8
NEW AUG222-36-25-□□	233.5	368	258	3.2
NEW AUG222-36-30-□□	233.5	368	308	3.6
NEW AUG222-36-36-□□	233.5	368	368	4.0
NEW AUG222-36-43-□□	233.5	368	438	4.6
NEW AUG222-36-50-□□	233.5	368	508	5.2
NEW AUG222-43-16-□□	233.5	438	168	2.8
NEW AUG222-43-20-□□	233.5	438	208	3.1
NEW AUG222-43-25-□□	233.5	438	258	3.5
NEW AUG222-43-30-□□	233.5	438	308	4.0
NEW AUG222-43-36-□□	233.5	438	368	4.5
NEW AUG222-43-43-□□	233.5	438	438	5.1
NEW AUG222-43-50-□□	233.5	438	508	5.7
NEW AUG222-50-30-□□	233.5	508	308	4.4
NEW AUG222-50-36-□□	233.5	508	368	4.9
NEW AUG222-50-43-□□	233.5	508	438	5.6
NEW AUG222-50-50-□□	233.5	508	508	6.3

Product no.	H	W	D	Weight (kg)
NEW AUG266-16-16-□□	277.9	168	168	1.9
NEW AUG266-16-20-□□	277.9	168	208	2.2
NEW AUG266-16-25-□□	277.9	168	258	2.5
NEW AUG266-16-30-□□	277.9	168	308	2.9
NEW AUG266-16-36-□□	277.9	168	368	3.3
NEW AUG266-16-43-□□	277.9	168	438	3.9
NEW AUG266-20-16-□□	277.9	208	168	2.1
NEW AUG266-20-20-□□	277.9	208	208	2.4
NEW AUG266-20-25-□□	277.9	208	258	2.8
NEW AUG266-20-30-□□	277.9	208	308	3.1
NEW AUG266-20-36-□□	277.9	208	368	3.6
NEW AUG266-20-43-□□	277.9	208	438	4.2
NEW AUG266-25-16-□□	277.9	258	168	2.3
NEW AUG266-25-20-□□	277.9	258	208	2.6
NEW AUG266-25-25-□□	277.9	258	258	3.0
NEW AUG266-25-30-□□	277.9	258	308	3.4
NEW AUG266-25-36-□□	277.9	258	368	3.9
NEW AUG266-25-43-□□	277.9	258	438	4.5
NEW AUG266-30-16-□□	277.9	308	168	2.5
NEW AUG266-30-20-□□	277.9	308	208	2.9
NEW AUG266-30-25-□□	277.9	308	258	3.3
NEW AUG266-30-30-□□	277.9	308	308	3.7
NEW AUG266-30-36-□□	277.9	308	368	4.3
NEW AUG266-30-43-□□	277.9	308	438	4.9
NEW AUG266-30-50-□□	277.9	308	508	5.5
NEW AUG266-36-16-□□	277.9	368	168	2.8
NEW AUG266-36-20-□□	277.9	368	208	3.2
NEW AUG266-36-25-□□	277.9	368	258	3.6
NEW AUG266-36-30-□□	277.9	368	308	4.1
NEW AUG266-36-36-□□	277.9	368	368	4.7
NEW AUG266-36-43-□□	277.9	368	438	5.4
NEW AUG266-36-50-□□	277.9	368	508	6.0
NEW AUG266-43-16-□□	277.9	438	168	3.2
NEW AUG266-43-20-□□	277.9	438	208	3.6
NEW AUG266-43-25-□□	277.9	438	258	4.1
NEW AUG266-43-30-□□	277.9	438	308	4.6
NEW AUG266-43-36-□□	277.9	438	368	5.2
NEW AUG266-43-43-□□	277.9	438	438	5.9
NEW AUG266-43-50-□□	277.9	438	508	6.6
NEW AUG266-50-30-□□	277.9	508	308	5.0
NEW AUG266-50-36-□□	277.9	508	368	5.6
NEW AUG266-50-43-□□	277.9	508	438	6.4
NEW AUG266-50-50-□□	277.9	508	508	7.2

EMC
Shielding

- Shielding gasket allows the enclosure to be EMC shielded.
- Rugged design EMC shielded aluminium enclosure with TPE (Elastomer) corner guards. Corner guards also act as non-slip rubber feet.
- Suitable to be used as an easy maintenance desktop case due to its detachable front/rear panels. Captive screws allow for ease of maintenance as there is little risk of the screws dropping out and getting lost.
- A large selection of 387 different sizes to choose from.
- A total of 4 selectable color combinations with a silver anodized body and 4 corner guard colors - Black, Gray, Navy and Red.



Included screws :

- Top / Bottom cover (not applicable to some models)
M3-5 original trapezoid head (hex) & Nickel plated x 4~8 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Corner guard
M3-10 hex & Black trivalent chromate x 8 pcs
- * Hex wrench included.
- Panel
Captive M2.5-7 pan head & Nickel plated x 8~12 pcs

Recommended torque :

M3 -10 hex	: 0.2N • m
M2.5-7 pan head	: 0.15 ~ 0.2N • m
Other screws	: 0.3 ~ 0.6N • m

* Recommended torque listed is for reference only; actual may differ.
Assemble after testing torque.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Panel	2	Aluminium A1100P	Silver / Painted (Conductive inside)
5	Top • bottom cover	2	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Corner guard	8	TPE (Elastomer)	Black • Gray • Navy • Red
7	EMC shielding gasket	16	Conductive fiber UL94V-0	Metallic gray

Color

Please choose from the color combinations listed below.

S **B** (Silver / Black)

S **G** (Silver / Gray)

S **N** (Silver / Navy)

S **R** (Silver / Red)


Product Number

To determine a product number, fill H-W-D dimensions and select Color code in the following blank boxes.

AUGE

H-W-D dimensions

See page 283~286 for dimensions / product no.

Color

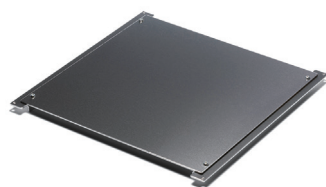
SB • SG • SN • SR

Numbering example :

If looking at "H144.5 x W438 x D308mm, Color type SN"

➔ **AUGE 133-43-30-SN**

Accessories (Optional parts)



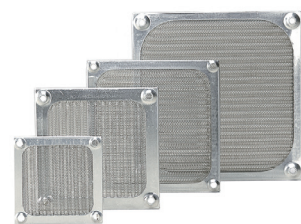
Mounting plate AUC series
See page 293 ~ 294



Elastomer carrying handle FM200
See website



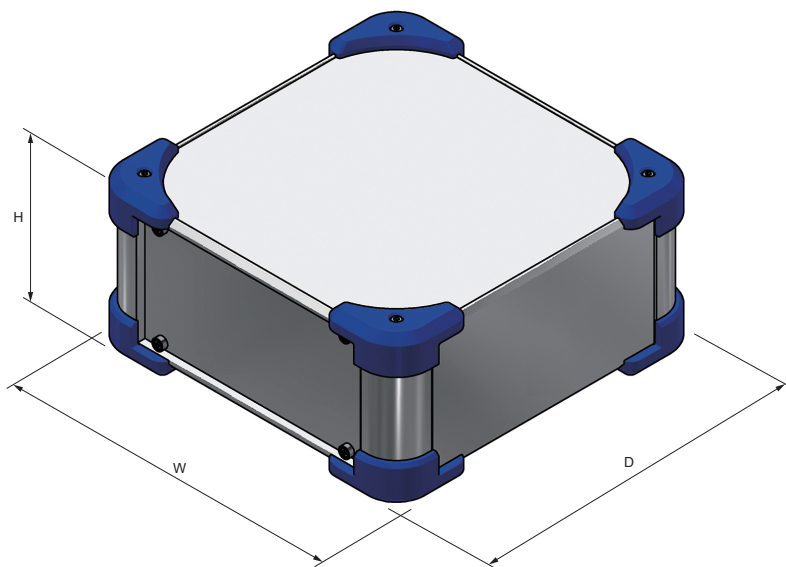
Tilt leg TLW series
See page 239



EMC shielding fan filter EMF series
See website

AUGE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUGE 66-16-16-□□	78	168	168	0.9
AUGE 66-16-20-□□	78	168	208	1.1
AUGE 66-16-25-□□	78	168	258	1.2
AUGE 66-16-30-□□	78	168	308	1.4
AUGE 66-16-36-□□	78	168	368	1.6
AUGE 66-16-43-□□	78	168	438	1.8
AUGE 66-20-16-□□	78	208	168	1.1
AUGE 66-20-20-□□	78	208	208	1.2
AUGE 66-20-25-□□	78	208	258	1.4
AUGE 66-20-30-□□	78	208	308	1.6
AUGE 66-20-36-□□	78	208	368	1.8
AUGE 66-20-43-□□	78	208	438	2.1
AUGE 66-25-16-□□	78	258	168	1.2
AUGE 66-25-20-□□	78	258	208	1.4
AUGE 66-25-25-□□	78	258	258	1.6
AUGE 66-25-30-□□	78	258	308	1.8
AUGE 66-25-36-□□	78	258	368	2.0
AUGE 66-25-43-□□	78	258	438	2.4
AUGE 66-30-16-□□	78	308	168	1.4
AUGE 66-30-20-□□	78	308	208	1.6
AUGE 66-30-25-□□	78	308	258	1.8
AUGE 66-30-30-□□	78	308	308	2.0

Product no.	H	W	D	Weight (kg)
AUGE 66-30-36-□□	78	308	368	2.3
AUGE 66-30-43-□□	78	308	438	2.7
AUGE 66-30-50-□□	78	308	508	3.0
AUGE 66-36-16-□□	78	368	168	1.6
AUGE 66-36-20-□□	78	368	208	1.8
AUGE 66-36-25-□□	78	368	258	2.1
AUGE 66-36-30-□□	78	368	308	2.3
AUGE 66-36-36-□□	78	368	368	2.6
AUGE 66-36-43-□□	78	368	438	3.0
AUGE 66-36-50-□□	78	368	508	3.4
AUGE 66-43-16-□□	78	438	168	1.8
AUGE 66-43-20-□□	78	438	208	2.1
AUGE 66-43-25-□□	78	438	258	2.4
AUGE 66-43-30-□□	78	438	308	2.7
AUGE 66-43-36-□□	78	438	368	3.0
AUGE 66-43-43-□□	78	438	438	3.5
AUGE 66-43-50-□□	78	438	508	3.9
AUGE 66-50-30-□□	78	508	308	3.0
AUGE 66-50-36-□□	78	508	368	3.4
AUGE 66-50-43-□□	78	508	438	3.9
AUGE 66-50-50-□□	78	508	508	4.4

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUGE 88-16-16-□□	100	168	168	1.0
AUGE 88-16-20-□□	100	168	208	1.2
AUGE 88-16-25-□□	100	168	258	1.4
AUGE 88-16-30-□□	100	168	308	1.5
AUGE 88-16-36-□□	100	168	368	1.8
AUGE 88-16-43-□□	100	168	438	2.0
AUGE 88-20-16-□□	100	208	168	1.2
AUGE 88-20-20-□□	100	208	208	1.3
AUGE 88-20-25-□□	100	208	258	1.5
AUGE 88-20-30-□□	100	208	308	1.7
AUGE 88-20-36-□□	100	208	368	1.9
AUGE 88-20-43-□□	100	208	438	2.2
AUGE 88-25-16-□□	100	258	168	1.4
AUGE 88-25-20-□□	100	258	208	1.5
AUGE 88-25-25-□□	100	258	258	1.7
AUGE 88-25-30-□□	100	258	308	2.0
AUGE 88-25-36-□□	100	258	368	2.2
AUGE 88-25-43-□□	100	258	438	2.6
AUGE 88-30-16-□□	100	308	168	1.5
AUGE 88-30-20-□□	100	308	208	1.7
AUGE 88-30-25-□□	100	308	258	2.0
AUGE 88-30-30-□□	100	308	308	2.2
AUGE 88-30-36-□□	100	308	368	2.5
AUGE 88-30-43-□□	100	308	438	2.9
AUGE 88-30-50-□□	100	308	508	3.2
AUGE 88-36-16-□□	100	368	168	1.8
AUGE 88-36-20-□□	100	368	208	2.0
AUGE 88-36-25-□□	100	368	258	2.2
AUGE 88-36-30-□□	100	368	308	2.5
AUGE 88-36-36-□□	100	368	368	2.8
AUGE 88-36-43-□□	100	368	438	3.3
AUGE 88-36-50-□□	100	368	508	3.7
AUGE 88-43-16-□□	100	438	168	1.9
AUGE 88-43-20-□□	100	438	208	2.3
AUGE 88-43-25-□□	100	438	258	2.6
AUGE 88-43-30-□□	100	438	308	2.9
AUGE 88-43-36-□□	100	438	368	3.3
AUGE 88-43-43-□□	100	438	438	3.7
AUGE 88-43-50-□□	100	438	508	4.2
AUGE 88-50-30-□□	100	508	308	3.2
AUGE 88-50-36-□□	100	508	368	3.7
AUGE 88-50-43-□□	100	508	438	4.2
AUGE 88-50-50-□□	100	508	508	4.7
NEW AUGE 99-16-16-□□	111	168	168	1.0
NEW AUGE 99-16-20-□□	111	168	208	1.2
NEW AUGE 99-16-25-□□	111	168	258	1.4
NEW AUGE 99-16-30-□□	111	168	308	1.5
NEW AUGE 99-16-36-□□	111	168	368	1.7
NEW AUGE 99-16-43-□□	111	168	438	2.0
NEW AUGE 99-20-16-□□	111	208	168	1.2
NEW AUGE 99-20-20-□□	111	208	208	1.3
NEW AUGE 99-20-25-□□	111	208	258	1.5
NEW AUGE 99-20-30-□□	111	208	308	1.7
NEW AUGE 99-20-36-□□	111	208	368	2.0
NEW AUGE 99-20-43-□□	111	208	438	2.2
NEW AUGE 99-25-16-□□	111	258	168	1.4
NEW AUGE 99-25-20-□□	111	258	208	1.5
NEW AUGE 99-25-25-□□	111	258	258	1.8
NEW AUGE 99-25-30-□□	111	258	308	2.0
NEW AUGE 99-25-36-□□	111	258	368	2.3
NEW AUGE 99-25-43-□□	111	258	438	2.6
NEW AUGE 99-30-16-□□	111	308	168	1.5
NEW AUGE 99-30-20-□□	111	308	208	1.7
NEW AUGE 99-30-25-□□	111	308	258	2.0
NEW AUGE 99-30-30-□□	111	308	308	2.2

Product no.	H	W	D	Weight (kg)
NEW AUGE 99-30-36-□□	111	308	368	2.5
NEW AUGE 99-30-43-□□	111	308	438	2.9
NEW AUGE 99-30-50-□□	111	308	508	3.3
NEW AUGE 99-36-16-□□	111	368	168	1.7
NEW AUGE 99-36-20-□□	111	368	208	2.0
NEW AUGE 99-36-25-□□	111	368	258	2.3
NEW AUGE 99-36-30-□□	111	368	308	2.5
NEW AUGE 99-36-36-□□	111	368	368	2.9
NEW AUGE 99-36-43-□□	111	368	438	3.3
NEW AUGE 99-36-50-□□	111	368	508	3.7
NEW AUGE 99-43-16-□□	111	438	168	2.0
NEW AUGE 99-43-20-□□	111	438	208	2.3
NEW AUGE 99-43-25-□□	111	438	258	2.6
NEW AUGE 99-43-30-□□	111	438	308	2.9
NEW AUGE 99-43-36-□□	111	438	368	3.3
NEW AUGE 99-43-43-□□	111	438	438	3.7
NEW AUGE 99-43-50-□□	111	438	508	4.2
NEW AUGE 99-50-30-□□	111	508	308	3.3
NEW AUGE 99-50-36-□□	111	508	368	3.7
NEW AUGE 99-50-43-□□	111	508	438	4.2
NEW AUGE 99-50-50-□□	111	508	508	4.7
NEW AUGE115-16-16-□□	127	168	168	1.1
NEW AUGE115-16-20-□□	127	168	208	1.3
NEW AUGE115-16-25-□□	127	168	258	1.4
NEW AUGE115-16-30-□□	127	168	308	1.6
NEW AUGE115-16-36-□□	127	168	368	1.9
NEW AUGE115-16-43-□□	127	168	438	2.1
NEW AUGE115-20-16-□□	127	208	168	1.3
NEW AUGE115-20-20-□□	127	208	208	1.4
NEW AUGE115-20-25-□□	127	208	258	1.6
NEW AUGE115-20-30-□□	127	208	308	1.8
NEW AUGE115-20-36-□□	127	208	368	2.1
NEW AUGE115-20-43-□□	127	208	438	2.4
NEW AUGE115-25-16-□□	127	258	168	1.4
NEW AUGE115-25-20-□□	127	258	208	1.6
NEW AUGE115-25-25-□□	127	258	258	1.9
NEW AUGE115-25-30-□□	127	258	308	2.1
NEW AUGE115-25-36-□□	127	258	368	2.4
NEW AUGE115-25-43-□□	127	258	438	2.7
NEW AUGE115-30-16-□□	127	308	168	1.6
NEW AUGE115-30-20-□□	127	308	208	1.8
NEW AUGE115-30-25-□□	127	308	258	2.1
NEW AUGE115-30-30-□□	127	308	308	2.4
NEW AUGE115-30-36-□□	127	308	368	2.7
NEW AUGE115-30-43-□□	127	308	438	3.1
NEW AUGE115-30-50-□□	127	308	508	3.4
NEW AUGE115-36-16-□□	127	368	168	1.9
NEW AUGE115-36-20-□□	127	368	208	2.1
NEW AUGE115-36-25-□□	127	368	258	2.4
NEW AUGE115-36-30-□□	127	368	308	2.7
NEW AUGE115-36-36-□□	127	368	368	3.0
NEW AUGE115-36-43-□□	127	368	438	3.5
NEW AUGE115-36-50-□□	127	368	508	3.9
NEW AUGE115-43-16-□□	127	438	168	2.1
NEW AUGE115-43-20-□□	127	438	208	2.4
NEW AUGE115-43-25-□□	127	438	258	2.7
NEW AUGE115-43-30-□□	127	438	308	3.1
NEW AUGE115-43-36-□□	127	438	368	3.5
NEW AUGE115-43-43-□□	127	438	438	3.9
NEW AUGE115-43-50-□□	127	438	508	4.4
NEW AUGE115-50-30-□□	127	508	308	3.4
NEW AUGE115-50-36-□□	127	508	368	3.9
NEW AUGE115-50-43-□□	127	508	438	4.4
NEW AUGE115-50-50-□□	127	508	508	4.9

Product no. / Details

Product no.	H	W	D	Weight (kg)
AUGE133-16-16-□□	144.5	168	168	1.3
AUGE133-16-20-□□	144.5	168	208	1.5
AUGE133-16-25-□□	144.5	168	258	1.7
AUGE133-16-30-□□	144.5	168	308	1.9
AUGE133-16-36-□□	144.5	168	368	2.2
AUGE133-16-43-□□	144.5	168	438	2.4
AUGE133-20-16-□□	144.5	208	168	1.4
AUGE133-20-20-□□	144.5	208	208	1.6
AUGE133-20-25-□□	144.5	208	258	1.9
AUGE133-20-30-□□	144.5	208	308	2.1
AUGE133-20-36-□□	144.5	208	368	2.4
AUGE133-20-43-□□	144.5	208	438	2.8
AUGE133-25-16-□□	144.5	258	168	1.6
AUGE133-25-20-□□	144.5	258	208	1.9
AUGE133-25-25-□□	144.5	258	258	2.1
AUGE133-25-30-□□	144.5	258	308	2.4
AUGE133-25-36-□□	144.5	258	368	2.7
AUGE133-25-43-□□	144.5	258	438	3.1
AUGE133-30-16-□□	144.5	308	168	1.8
AUGE133-30-20-□□	144.5	308	208	2.1
AUGE133-30-25-□□	144.5	308	258	2.4
AUGE133-30-30-□□	144.5	308	308	2.7
AUGE133-30-36-□□	144.5	308	368	3.0
AUGE133-30-43-□□	144.5	308	438	3.4
AUGE133-30-50-□□	144.5	308	508	3.8
AUGE133-36-16-□□	144.5	368	168	2.1
AUGE133-36-20-□□	144.5	368	208	2.3
AUGE133-36-25-□□	144.5	368	258	2.7
AUGE133-36-30-□□	144.5	368	308	3.0
AUGE133-36-36-□□	144.5	368	368	3.4
AUGE133-36-43-□□	144.5	368	438	3.9
AUGE133-36-50-□□	144.5	368	508	4.3
AUGE133-43-16-□□	144.5	438	168	2.4
AUGE133-43-20-□□	144.5	438	208	2.7
AUGE133-43-25-□□	144.5	438	258	3.0
AUGE133-43-30-□□	144.5	438	308	3.4
AUGE133-43-36-□□	144.5	438	368	3.8
AUGE133-43-43-□□	144.5	438	438	4.3
AUGE133-43-50-□□	144.5	438	508	4.9
AUGE133-50-30-□□	144.5	508	308	3.8
AUGE133-50-36-□□	144.5	508	368	4.3
AUGE133-50-43-□□	144.5	508	438	4.8
AUGE133-50-50-□□	144.5	508	508	5.4
NEW AUGE149-16-16-□□	161	168	168	1.3
NEW AUGE149-16-20-□□	161	168	208	1.5
NEW AUGE149-16-25-□□	161	168	258	1.7
NEW AUGE149-16-30-□□	161	168	308	2.0
NEW AUGE149-16-36-□□	161	168	368	2.2
NEW AUGE149-16-43-□□	161	168	438	2.5
NEW AUGE149-20-16-□□	161	208	168	1.5
NEW AUGE149-20-20-□□	161	208	208	1.7
NEW AUGE149-20-25-□□	161	208	258	1.9
NEW AUGE149-20-30-□□	161	208	308	2.2
NEW AUGE149-20-36-□□	161	208	368	2.5
NEW AUGE149-20-43-□□	161	208	438	2.8
NEW AUGE149-25-16-□□	161	258	168	1.7
NEW AUGE149-25-20-□□	161	258	208	1.9
NEW AUGE149-25-25-□□	161	258	258	2.2
NEW AUGE149-25-30-□□	161	258	308	2.5
NEW AUGE149-25-36-□□	161	258	368	2.8
NEW AUGE149-25-43-□□	161	258	438	3.2
NEW AUGE149-30-16-□□	161	308	168	1.9
NEW AUGE149-30-20-□□	161	308	208	2.1
NEW AUGE149-30-25-□□	161	308	258	2.4
NEW AUGE149-30-30-□□	161	308	308	2.7

■ Please suffix color code at the end of the product number.

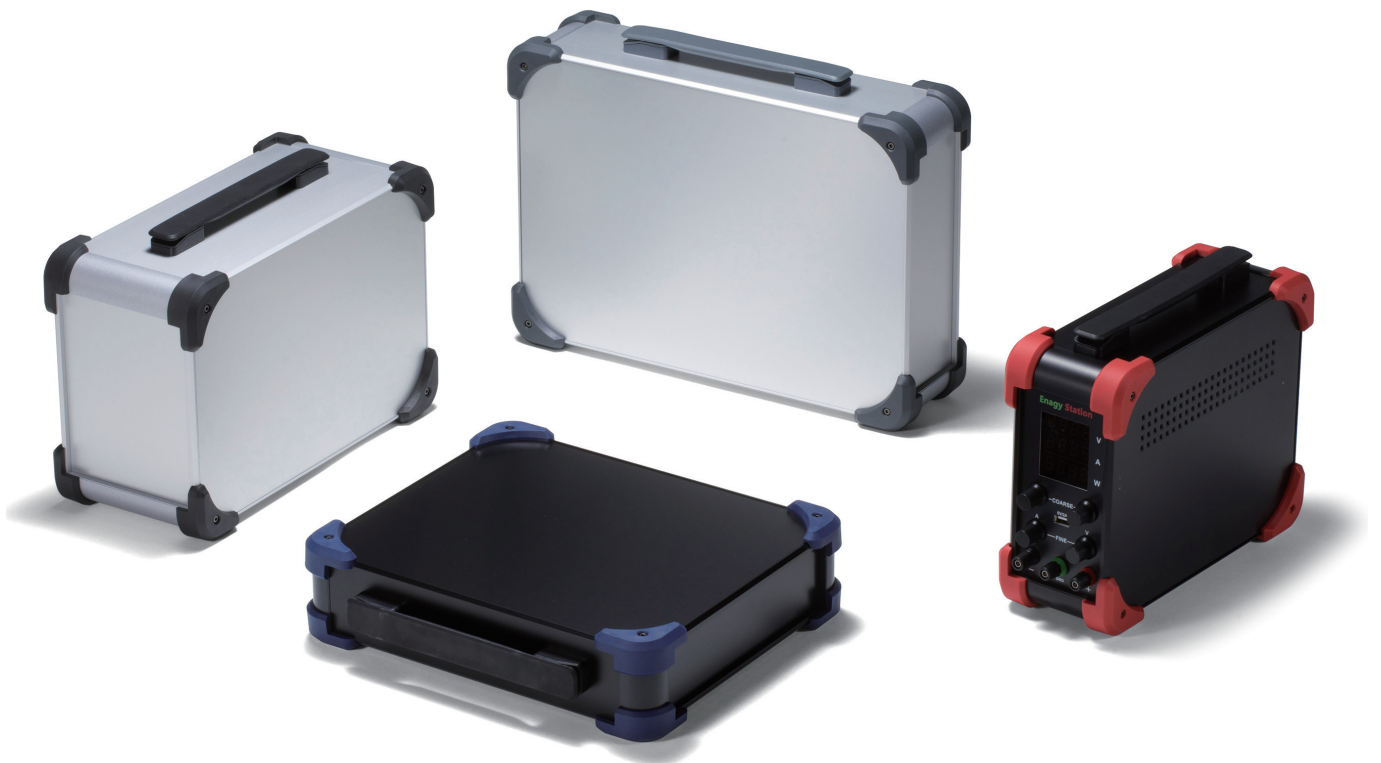
Product no.	H	W	D	Weight (kg)
NEW AUGE149-30-36-□□	161	308	368	3.1
NEW AUGE149-30-43-□□	161	308	438	3.5
NEW AUGE149-30-50-□□	161	308	508	4.0
NEW AUGE149-36-16-□□	161	368	168	2.1
NEW AUGE149-36-20-□□	161	368	208	2.4
NEW AUGE149-36-25-□□	161	368	258	2.7
NEW AUGE149-36-30-□□	161	368	308	3.1
NEW AUGE149-36-36-□□	161	368	368	3.5
NEW AUGE149-36-43-□□	161	368	438	4.0
NEW AUGE149-36-50-□□	161	368	508	4.4
NEW AUGE149-43-16-□□	161	438	168	2.4
NEW AUGE149-43-20-□□	161	438	208	2.7
NEW AUGE149-43-25-□□	161	438	258	3.1
NEW AUGE149-43-30-□□	161	438	308	3.5
NEW AUGE149-43-36-□□	161	438	368	3.9
NEW AUGE149-43-43-□□	161	438	438	4.5
NEW AUGE149-43-50-□□	161	438	508	5.0
NEW AUGE149-50-30-□□	161	508	308	3.9
NEW AUGE149-50-36-□□	161	508	368	4.4
NEW AUGE149-50-43-□□	161	508	438	4.9
NEW AUGE149-50-50-□□	161	508	508	5.5
AUGE177-16-16-□□	189	168	168	1.5
AUGE177-16-20-□□	189	168	208	1.7
AUGE177-16-25-□□	189	168	258	1.9
AUGE177-16-30-□□	189	168	308	2.2
AUGE177-16-36-□□	189	168	368	2.5
AUGE177-16-43-□□	189	168	438	2.8
AUGE177-20-16-□□	189	208	168	1.6
AUGE177-20-20-□□	189	208	208	1.9
AUGE177-20-25-□□	189	208	258	2.1
AUGE177-20-30-□□	189	208	308	2.4
AUGE177-20-36-□□	189	208	368	2.7
AUGE177-20-43-□□	189	208	438	3.1
AUGE177-25-16-□□	189	258	168	1.9
AUGE177-25-20-□□	189	258	208	2.1
AUGE177-25-25-□□	189	258	258	2.4
AUGE177-25-30-□□	189	258	308	2.7
AUGE177-25-36-□□	189	258	368	3.1
AUGE177-25-43-□□	189	258	438	3.5
AUGE177-30-16-□□	189	308	168	2.1
AUGE177-30-20-□□	189	308	208	2.3
AUGE177-30-25-□□	189	308	258	2.7
AUGE177-30-30-□□	189	308	308	3.0
AUGE177-30-36-□□	189	308	368	3.4
AUGE177-30-43-□□	189	308	438	3.8
AUGE177-30-50-□□	189	308	508	4.3
AUGE177-36-16-□□	189	368	168	2.3
AUGE177-36-20-□□	189	368	208	2.6
AUGE177-36-25-□□	189	368	258	3.0
AUGE177-36-30-□□	189	368	308	3.3
AUGE177-36-36-□□	189	368	368	3.8
AUGE177-36-43-□□	189	368	438	4.3
AUGE177-36-50-□□	189	368	508	4.8
AUGE177-43-16-□□	189	438	168	2.7
AUGE177-43-20-□□	189	438	208	3.0
AUGE177-43-25-□□	189	438	258	3.4
AUGE177-43-30-□□	189	438	308	3.8
AUGE177-43-36-□□	189	438	368	4.2
AUGE177-43-43-□□	189	438	438	4.8
AUGE177-43-50-□□	189	438	508	5.4
AUGE177-50-30-□□	189	508	308	4.2
AUGE177-50-36-□□	189	508	368	4.7
AUGE177-50-43-□□	189	508	438	5.3
AUGE177-50-50-□□	189	508	508	5.9

Product no. / Details

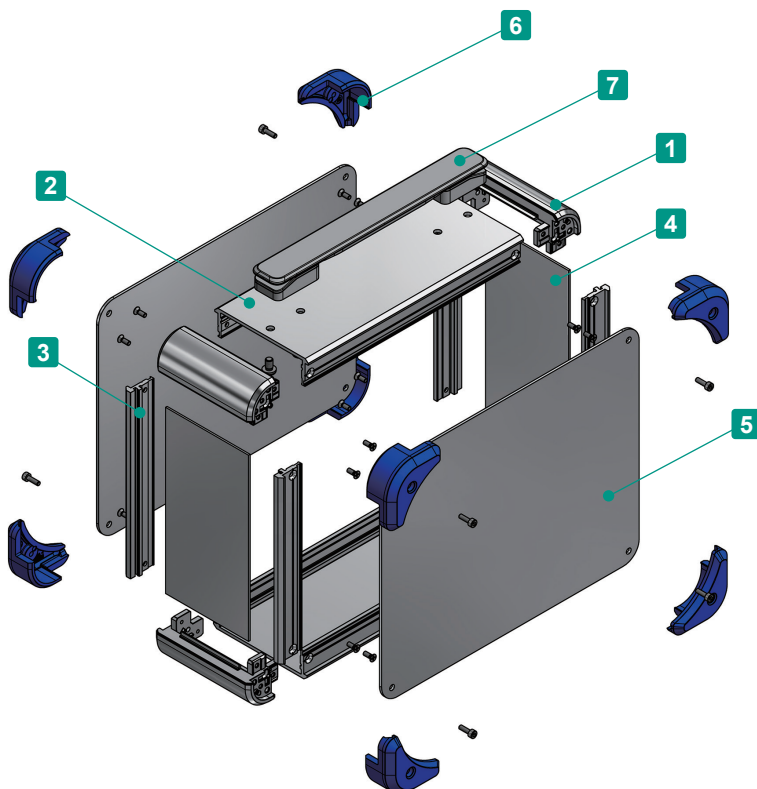
■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
NEW AUGE222-16-16-□□	233.5	168	168	1.7
NEW AUGE222-16-20-□□	233.5	168	208	1.9
NEW AUGE222-16-25-□□	233.5	168	258	2.2
NEW AUGE222-16-30-□□	233.5	168	308	2.5
NEW AUGE222-16-36-□□	233.5	168	368	2.8
NEW AUGE222-16-43-□□	233.5	168	438	3.3
NEW AUGE222-20-16-□□	233.5	208	168	1.9
NEW AUGE222-20-20-□□	233.5	208	208	2.1
NEW AUGE222-20-25-□□	233.5	208	258	2.5
NEW AUGE222-20-30-□□	233.5	208	308	2.8
NEW AUGE222-20-36-□□	233.5	208	368	3.1
NEW AUGE222-20-43-□□	233.5	208	438	3.6
NEW AUGE222-25-16-□□	233.5	258	168	2.1
NEW AUGE222-25-20-□□	233.5	258	208	2.4
NEW AUGE222-25-25-□□	233.5	258	258	2.7
NEW AUGE222-25-30-□□	233.5	258	308	3.1
NEW AUGE222-25-36-□□	233.5	258	368	3.5
NEW AUGE222-25-43-□□	233.5	258	438	4.0
NEW AUGE222-30-16-□□	233.5	308	168	2.4
NEW AUGE222-30-20-□□	233.5	308	208	2.7
NEW AUGE222-30-25-□□	233.5	308	258	3.0
NEW AUGE222-30-30-□□	233.5	308	308	3.4
NEW AUGE222-30-36-□□	233.5	308	368	3.8
NEW AUGE222-30-43-□□	233.5	308	438	4.3
NEW AUGE222-30-50-□□	233.5	308	508	4.9
NEW AUGE222-36-16-□□	233.5	368	168	2.7
NEW AUGE222-36-20-□□	233.5	368	208	3.0
NEW AUGE222-36-25-□□	233.5	368	258	3.4
NEW AUGE222-36-30-□□	233.5	368	308	3.8
NEW AUGE222-36-36-□□	233.5	368	368	4.3
NEW AUGE222-36-43-□□	233.5	368	438	4.8
NEW AUGE222-36-50-□□	233.5	368	508	5.4
NEW AUGE222-43-16-□□	233.5	438	168	3.0
NEW AUGE222-43-20-□□	233.5	438	208	3.4
NEW AUGE222-43-25-□□	233.5	438	258	3.8
NEW AUGE222-43-30-□□	233.5	438	308	4.2
NEW AUGE222-43-36-□□	233.5	438	368	4.8
NEW AUGE222-43-43-□□	233.5	438	438	5.4
NEW AUGE222-43-50-□□	233.5	438	508	6.0
NEW AUGE222-50-30-□□	233.5	508	308	4.7
NEW AUGE222-50-36-□□	233.5	508	368	5.3
NEW AUGE222-50-43-□□	233.5	508	438	5.9
NEW AUGE222-50-50-□□	233.5	508	508	6.6

Product no.	H	W	D	Weight (kg)
NEW AUGE266-16-16-□□	277.9	168	168	2.0
NEW AUGE266-16-20-□□	277.9	168	208	2.3
NEW AUGE266-16-25-□□	277.9	168	258	2.6
NEW AUGE266-16-30-□□	277.9	168	308	3.0
NEW AUGE266-16-36-□□	277.9	168	368	3.4
NEW AUGE266-16-43-□□	277.9	168	438	3.9
NEW AUGE266-20-16-□□	277.9	208	168	2.2
NEW AUGE266-20-20-□□	277.9	208	208	2.5
NEW AUGE266-20-25-□□	277.9	208	258	2.9
NEW AUGE266-20-30-□□	277.9	208	308	3.3
NEW AUGE266-20-36-□□	277.9	208	368	3.7
NEW AUGE266-20-43-□□	277.9	208	438	4.3
NEW AUGE266-25-16-□□	277.9	258	168	2.5
NEW AUGE266-25-20-□□	277.9	258	208	2.8
NEW AUGE266-25-25-□□	277.9	258	258	3.2
NEW AUGE266-25-30-□□	277.9	258	308	3.6
NEW AUGE266-25-36-□□	277.9	258	368	4.1
NEW AUGE266-25-43-□□	277.9	258	438	4.7
NEW AUGE266-30-16-□□	277.9	308	168	2.8
NEW AUGE266-30-20-□□	277.9	308	208	3.1
NEW AUGE266-30-25-□□	277.9	308	258	3.5
NEW AUGE266-30-30-□□	277.9	308	308	4.0
NEW AUGE266-30-36-□□	277.9	308	368	4.5
NEW AUGE266-30-43-□□	277.9	308	438	5.1
NEW AUGE266-30-50-□□	277.9	308	508	5.7
NEW AUGE266-36-16-□□	277.9	368	168	3.1
NEW AUGE266-36-20-□□	277.9	368	208	3.4
NEW AUGE266-36-25-□□	277.9	368	258	3.9
NEW AUGE266-36-30-□□	277.9	368	308	4.4
NEW AUGE266-36-36-□□	277.9	368	368	4.9
NEW AUGE266-36-43-□□	277.9	368	438	5.6
NEW AUGE266-36-50-□□	277.9	368	508	6.2
NEW AUGE266-43-16-□□	277.9	438	168	3.5
NEW AUGE266-43-20-□□	277.9	438	208	3.9
NEW AUGE266-43-25-□□	277.9	438	258	4.4
NEW AUGE266-43-30-□□	277.9	438	308	4.9
NEW AUGE266-43-36-□□	277.9	438	368	5.5
NEW AUGE266-43-43-□□	277.9	438	438	6.2
NEW AUGE266-43-50-□□	277.9	438	508	6.9
NEW AUGE266-50-30-□□	277.9	508	308	5.3
NEW AUGE266-50-36-□□	277.9	508	368	6.0
NEW AUGE266-50-43-□□	277.9	508	438	6.8
NEW AUGE266-50-50-□□	277.9	508	508	7.5



- Rugged design aluminium enclosure with carrying handle that can withstand a maximum load of up to 20.0 kg.
- TPE (Elastomer) corner guards are elastic and also act as non-slip rubber feet.
- A large selection of 294 different sizes to choose from.
- A total of 12 selectable color combinations with 4 corner guard colors - Black, Gray, Navy and Red -, 2 handle colors - Black and Gray-, and 2 enclosure colors - Silver and Black anodized.
- Versatile aluminium case suitable for use as measuring instrument, controller, industrial embedded computer, power supply, audio amplifier, and more.



Included screws

- Top / Bottom cover (not applicable to some models)
M3-5 original trapezoid head (hex) & Nickel plated / Black trivalent chromate x 4~8 pcs
- Frame / Panel support frame
M3-8 flat head & Nickel plated x 16 pcs
- Corner guard
M3-10 hex & Black trivalent chromate x 8 pcs
- * Hex wrench included.
- Carrying handle
M5-8 pan head self-tapping screw & Black trivalent chromate x 4 pcs

Recommended torque : $\begin{cases} \text{M3 -10 hex - } 0.2\text{N} \cdot \text{m} \\ \text{M5-8 pan head self-tapping screw } 1.5\text{N} \cdot \text{m} \\ \text{Other screws - } 0.3 \sim 0.6\text{N} \cdot \text{m} \end{cases}$

* Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
3	Panel support frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel	2	Aluminium A1100P	Silver • Black / Anodized
5	Top • bottom cover	2	Aluminium A1100P	Silver • Black / Anodized
6	Corner guard	8	TPE (Elastomer)	Black • Gray • Navy • Red
7	Carrying handle	1	PU • PA6 • ABS • Steel	Black • Gray

Color

Please choose from the color combinations listed below.

S B B

(Silver / Black / Black)



S G B

(Silver / Gray / Black)



S N B

(Silver / Navy / Black)



S R B

(Silver / Red / Black)



S B G

(Silver / Black / Gray)



S G G

(Silver / Gray / Gray)



S N G

(Silver / Navy / Gray)



S R G

(Silver / Red / Gray)



B B B

(Black / Black / Black)



B G B

(Black / Gray / Black)



B N B

(Black / Navy / Black)



B R B

(Black / Red / Black)



Product Number

To determine a product number, fill H-W-D dimensions and select Color code in the following blank boxes.

AUGH

-

-

-

H-W-D dimensions

See page 289~292 for dimensions / product no.

Color

SBB / SGB / SNB / SRB

SBG / SGG / SNG / SRG

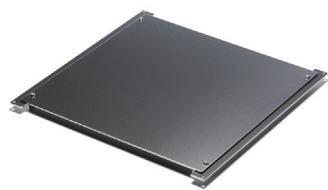
BBB / BGB / BNB / BRB

Numbering example :

If looking at "H100 x W258 x D368mm, Color type SRG"

➔ AUGH 88-25-36-SRG

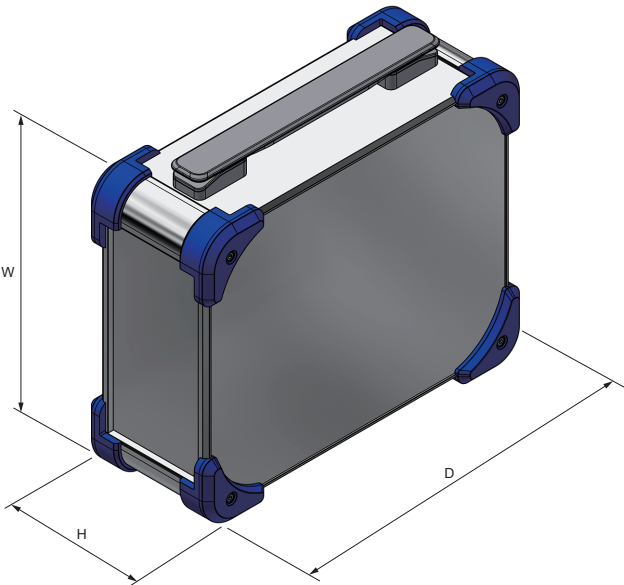
Accessories (Optional parts)



Mounting plate AUC series
See page 293 ~ 294

AUGH dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	H	W	D	Weight (kg)
AUGH 44-16-25-□□□	56	168	258	1.0
AUGH 44-16-30-□□□	56	168	308	1.2
AUGH 44-16-36-□□□	56	168	368	1.3
AUGH 44-20-25-□□□	56	208	258	1.2
AUGH 44-20-30-□□□	56	208	308	1.3
AUGH 44-20-36-□□□	56	208	368	1.5
AUGH 44-25-25-□□□	56	258	258	1.3
AUGH 44-25-30-□□□	56	258	308	1.5

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUGH 44-25-36-□□□	56	258	368	1.7
AUGH 44-30-25-□□□	56	308	258	1.5
AUGH 44-30-30-□□□	56	308	308	1.7
AUGH 44-30-36-□□□	56	308	368	2.0
AUGH 44-36-25-□□□	56	368	258	1.7
AUGH 44-36-30-□□□	56	368	308	2.0
AUGH 44-36-36-□□□	56	368	368	2.4

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUGH 66-16-25-□□□	78	168	258	1.2
AUGH 66-16-30-□□□	78	168	308	1.3
AUGH 66-16-36-□□□	78	168	368	1.5
AUGH 66-16-43-□□□	78	168	438	1.9
AUGH 66-20-25-□□□	78	208	258	1.3
AUGH 66-20-30-□□□	78	208	308	1.5
AUGH 66-20-36-□□□	78	208	368	1.7
AUGH 66-20-43-□□□	78	208	438	2.0
AUGH 66-25-25-□□□	78	258	258	1.5
AUGH 66-25-30-□□□	78	258	308	1.7
AUGH 66-25-36-□□□	78	258	368	2.0
AUGH 66-25-43-□□□	78	258	438	2.3
AUGH 66-30-25-□□□	78	308	258	1.7
AUGH 66-30-30-□□□	78	308	308	2.0
AUGH 66-30-36-□□□	78	308	368	2.2
AUGH 66-30-43-□□□	78	308	438	2.6
AUGH 66-30-50-□□□	78	308	508	2.9
AUGH 66-36-25-□□□	78	368	258	2.0
AUGH 66-36-30-□□□	78	368	308	2.2
AUGH 66-36-36-□□□	78	368	368	2.5
AUGH 66-36-43-□□□	78	368	438	2.9
AUGH 66-36-50-□□□	78	368	508	3.3
AUGH 66-43-25-□□□	78	438	258	2.3
AUGH 66-43-30-□□□	78	438	308	2.6
AUGH 66-43-36-□□□	78	438	368	2.9
AUGH 66-43-43-□□□	78	438	438	3.3
AUGH 66-43-50-□□□	78	438	508	3.8
AUGH 66-50-30-□□□	78	508	308	2.9
AUGH 66-50-36-□□□	78	508	368	3.3
AUGH 66-50-43-□□□	78	508	438	3.8
AUGH 66-50-50-□□□	78	508	508	4.2
AUGH 88-16-25-□□□	100	168	258	1.3
AUGH 88-16-30-□□□	100	168	308	1.5
AUGH 88-16-36-□□□	100	168	368	1.7
AUGH 88-16-43-□□□	100	168	438	2.0
AUGH 88-20-25-□□□	100	208	258	1.5
AUGH 88-20-30-□□□	100	208	308	1.7
AUGH 88-20-36-□□□	100	208	368	1.9
AUGH 88-20-43-□□□	100	208	438	2.2
AUGH 88-25-25-□□□	100	258	258	1.7
AUGH 88-25-30-□□□	100	258	308	1.7
AUGH 88-25-36-□□□	100	258	368	2.2
AUGH 88-25-43-□□□	100	258	438	2.5
AUGH 88-30-25-□□□	100	308	258	1.9
AUGH 88-30-30-□□□	100	308	308	2.1
AUGH 88-30-36-□□□	100	308	368	2.4
AUGH 88-30-43-□□□	100	308	438	2.8

Product no.	H	W	D	Weight (kg)
AUGH 88-30-50-□□□	100	308	508	3.1
AUGH 88-36-25-□□□	100	368	258	2.1
AUGH 88-36-30-□□□	100	368	308	2.4
AUGH 88-36-36-□□□	100	368	368	2.7
AUGH 88-36-43-□□□	100	368	438	3.2
AUGH 88-36-50-□□□	100	368	508	3.5
AUGH 88-43-25-□□□	100	438	258	2.4
AUGH 88-43-30-□□□	100	438	308	2.8
AUGH 88-43-36-□□□	100	438	368	3.1
AUGH 88-43-43-□□□	100	438	438	3.6
AUGH 88-43-50-□□□	100	438	508	4.0
AUGH 88-50-30-□□□	100	508	308	3.1
AUGH 88-50-36-□□□	100	508	368	3.5
AUGH 88-50-43-□□□	100	508	438	4.0
AUGH 88-50-50-□□□	100	508	508	4.5
NEW AUGH 99-16-25-□□□	111	168	258	1.4
NEW AUGH 99-16-30-□□□	111	168	308	1.5
NEW AUGH 99-16-36-□□□	111	168	368	1.8
NEW AUGH 99-16-43-□□□	111	168	438	2.0
NEW AUGH 99-20-25-□□□	111	208	258	1.5
NEW AUGH 99-20-30-□□□	111	208	308	1.7
NEW AUGH 99-20-36-□□□	111	208	368	2.0
NEW AUGH 99-20-43-□□□	111	208	438	2.3
NEW AUGH 99-25-25-□□□	111	258	258	1.7
NEW AUGH 99-25-30-□□□	111	258	308	2.0
NEW AUGH 99-25-36-□□□	111	258	368	2.2
NEW AUGH 99-25-43-□□□	111	258	438	2.6
NEW AUGH 99-30-25-□□□	111	308	258	1.9
NEW AUGH 99-30-30-□□□	111	308	308	2.2
NEW AUGH 99-30-36-□□□	111	308	368	2.5
NEW AUGH 99-30-43-□□□	111	308	438	2.9
NEW AUGH 99-30-50-□□□	111	308	508	3.2
NEW AUGH 99-36-25-□□□	111	368	258	2.2
NEW AUGH 99-36-30-□□□	111	368	308	2.5
NEW AUGH 99-36-36-□□□	111	368	368	2.8
NEW AUGH 99-36-43-□□□	111	368	438	3.3
NEW AUGH 99-36-50-□□□	111	368	508	3.7
NEW AUGH 99-43-25-□□□	111	438	258	2.5
NEW AUGH 99-43-30-□□□	111	438	308	2.8
NEW AUGH 99-43-36-□□□	111	438	368	3.2
NEW AUGH 99-43-43-□□□	111	438	438	3.7
NEW AUGH 99-43-50-□□□	111	438	508	4.1
NEW AUGH 99-50-30-□□□	111	508	308	3.2
NEW AUGH 99-50-36-□□□	111	508	368	3.6
NEW AUGH 99-50-43-□□□	111	508	438	4.1
NEW AUGH 99-50-50-□□□	111	508	508	4.6

Product no. / Details

Product no.	H	W	D	Weight (kg)
NEW AUGH115-16-25-□□□	127	168	258	1.4
NEW AUGH115-16-30-□□□	127	168	308	1.6
NEW AUGH115-16-36-□□□	127	168	368	1.9
NEW AUGH115-16-43-□□□	127	168	438	2.2
NEW AUGH115-20-25-□□□	127	208	258	1.6
NEW AUGH115-20-30-□□□	127	208	308	1.8
NEW AUGH115-20-36-□□□	127	208	368	2.1
NEW AUGH115-20-43-□□□	127	208	438	2.4
NEW AUGH115-25-25-□□□	127	258	258	1.8
NEW AUGH115-25-30-□□□	127	258	308	2.1
NEW AUGH115-25-36-□□□	127	258	368	2.4
NEW AUGH115-25-43-□□□	127	258	438	2.7
NEW AUGH115-30-25-□□□	127	308	258	2.1
NEW AUGH115-30-30-□□□	127	308	308	2.3
NEW AUGH115-30-36-□□□	127	308	368	2.6
NEW AUGH115-30-43-□□□	127	308	438	3.0
NEW AUGH115-30-50-□□□	127	308	508	3.4
NEW AUGH115-36-25-□□□	127	368	258	2.3
NEW AUGH115-36-30-□□□	127	368	308	2.6
NEW AUGH115-36-36-□□□	127	368	368	3.0
NEW AUGH115-36-43-□□□	127	368	438	3.4
NEW AUGH115-36-50-□□□	127	368	508	3.8
NEW AUGH115-43-25-□□□	127	438	258	2.6
NEW AUGH115-43-30-□□□	127	438	308	3.0
NEW AUGH115-43-36-□□□	127	438	368	3.4
NEW AUGH115-43-43-□□□	127	438	438	3.8
NEW AUGH115-43-50-□□□	127	438	508	4.3
NEW AUGH115-50-30-□□□	127	508	308	3.3
NEW AUGH115-50-36-□□□	127	508	368	3.8
NEW AUGH115-50-43-□□□	127	508	438	4.3
NEW AUGH115-50-50-□□□	127	508	508	4.8
AUGH133-16-25-□□□	144.5	168	258	1.6
AUGH133-16-30-□□□	144.5	168	308	1.8
AUGH133-16-36-□□□	144.5	168	368	2.1
AUGH133-16-43-□□□	144.5	168	438	2.5
AUGH133-20-25-□□□	144.5	208	258	1.8
AUGH133-20-30-□□□	144.5	208	308	2.0
AUGH133-20-36-□□□	144.5	208	368	2.3
AUGH133-20-43-□□□	144.5	208	438	2.7
AUGH133-25-25-□□□	144.5	258	258	2.0
AUGH133-25-30-□□□	144.5	258	308	2.3
AUGH133-25-36-□□□	144.5	258	368	2.6
AUGH133-25-43-□□□	144.5	258	438	3.0
AUGH133-30-25-□□□	144.5	308	258	2.2
AUGH133-30-30-□□□	144.5	308	308	2.5
AUGH133-30-36-□□□	144.5	308	368	2.9
AUGH133-30-43-□□□	144.5	308	438	3.3

■ Please suffix color code at the end of the product number.

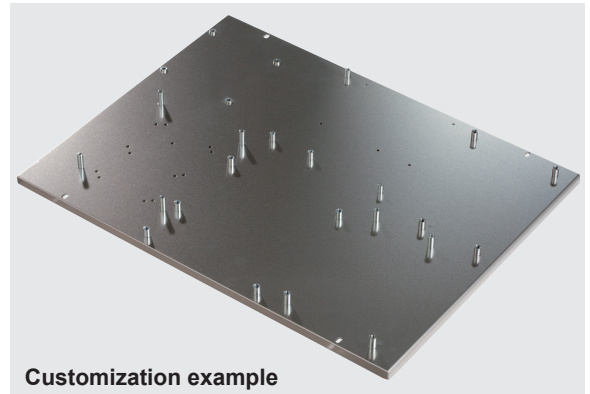
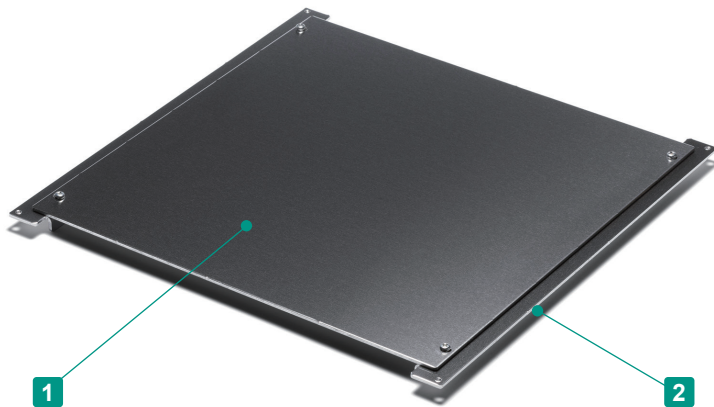
Product no.	H	W	D	Weight (kg)
AUGH133-30-50-□□□	144.5	308	508	3.7
AUGH133-36-25-□□□	144.5	368	258	2.5
AUGH133-36-30-□□□	144.5	368	308	2.8
AUGH133-36-36-□□□	144.5	368	368	3.2
AUGH133-36-43-□□□	144.5	368	438	3.7
AUGH133-36-50-□□□	144.5	368	508	4.2
AUGH133-43-25-□□□	144.5	438	258	2.9
AUGH133-43-30-□□□	144.5	438	308	3.2
AUGH133-43-36-□□□	144.5	438	368	3.6
AUGH133-43-43-□□□	144.5	438	438	4.2
AUGH133-43-50-□□□	144.5	438	508	4.7
AUGH133-50-30-□□□	144.5	508	308	3.6
AUGH133-50-36-□□□	144.5	508	368	4.0
AUGH133-50-43-□□□	144.5	508	438	4.6
AUGH133-50-50-□□□	144.5	508	508	5.2
NEW AUGH149-16-25-□□□	161	168	258	1.7
NEW AUGH149-16-30-□□□	161	168	308	1.9
NEW AUGH149-16-36-□□□	161	168	368	2.2
NEW AUGH149-16-43-□□□	161	168	438	2.6
NEW AUGH149-20-25-□□□	161	208	258	1.9
NEW AUGH149-20-30-□□□	161	208	308	2.2
NEW AUGH149-20-36-□□□	161	208	368	2.5
NEW AUGH149-20-43-□□□	161	208	438	2.8
NEW AUGH149-25-25-□□□	161	258	258	2.1
NEW AUGH149-25-30-□□□	161	258	308	2.4
NEW AUGH149-25-36-□□□	161	258	368	2.7
NEW AUGH149-25-43-□□□	161	258	438	3.2
NEW AUGH149-30-25-□□□	161	308	258	2.4
NEW AUGH149-30-30-□□□	161	308	308	2.7
NEW AUGH149-30-36-□□□	161	308	368	3.0
NEW AUGH149-30-43-□□□	161	308	438	3.5
NEW AUGH149-30-50-□□□	161	308	508	3.9
NEW AUGH149-36-25-□□□	161	368	258	2.6
NEW AUGH149-36-30-□□□	161	368	308	3.0
NEW AUGH149-36-36-□□□	161	368	368	3.4
NEW AUGH149-36-43-□□□	161	368	438	3.9
NEW AUGH149-36-50-□□□	161	368	508	4.4
NEW AUGH149-43-25-□□□	161	438	258	3.0
NEW AUGH149-43-30-□□□	161	438	308	3.4
NEW AUGH149-43-36-□□□	161	438	368	3.8
NEW AUGH149-43-43-□□□	161	438	438	4.3
NEW AUGH149-43-50-□□□	161	438	508	4.9
NEW AUGH149-50-30-□□□	161	508	308	3.7
NEW AUGH149-50-36-□□□	161	508	368	4.2
NEW AUGH149-50-43-□□□	161	508	438	4.8
NEW AUGH149-50-50-□□□	161	508	508	5.4

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUGH177-16-25-□□□	189	168	258	1.9
AUGH177-16-30-□□□	189	168	308	2.1
AUGH177-16-36-□□□	189	168	368	2.4
AUGH177-16-43-□□□	189	168	438	2.8
AUGH177-20-25-□□□	189	208	258	2.1
AUGH177-20-30-□□□	189	208	308	2.4
AUGH177-20-36-□□□	189	208	368	2.7
AUGH177-20-43-□□□	189	208	438	3.1
AUGH177-25-25-□□□	189	258	258	2.3
AUGH177-25-30-□□□	189	258	308	2.6
AUGH177-25-36-□□□	189	258	368	3.0
AUGH177-25-43-□□□	189	258	438	3.4
AUGH177-30-25-□□□	189	308	258	2.6
AUGH177-30-30-□□□	189	308	308	2.9
AUGH177-30-36-□□□	189	308	368	3.3
AUGH177-30-43-□□□	189	308	438	3.8
AUGH177-30-50-□□□	189	308	508	4.2
AUGH177-36-25-□□□	189	368	258	2.9
AUGH177-36-30-□□□	189	368	308	3.2
AUGH177-36-36-□□□	189	368	368	3.6
AUGH177-36-43-□□□	189	368	438	4.2
AUGH177-36-50-□□□	189	368	508	4.7
AUGH177-43-25-□□□	189	438	258	3.2
AUGH177-43-30-□□□	189	438	308	3.6
AUGH177-43-36-□□□	189	438	368	4.1
AUGH177-43-43-□□□	189	438	438	4.7
AUGH177-43-50-□□□	189	438	508	5.2
AUGH177-50-30-□□□	189	508	308	4.0
AUGH177-50-36-□□□	189	508	368	4.5
AUGH177-50-43-□□□	189	508	438	5.1
AUGH177-50-50-□□□	189	508	508	5.7
NEW AUGH222-16-25-□□□	233.5	168	258	2.2
NEW AUGH222-16-30-□□□	233.5	168	308	2.5
NEW AUGH222-16-36-□□□	233.5	168	368	2.8
NEW AUGH222-16-43-□□□	233.5	168	438	3.3
NEW AUGH222-20-25-□□□	233.5	208	258	2.4
NEW AUGH222-20-30-□□□	233.5	208	308	2.7
NEW AUGH222-20-36-□□□	233.5	208	368	3.1
NEW AUGH222-20-43-□□□	233.5	208	438	3.5
NEW AUGH222-25-25-□□□	233.5	258	258	2.7
NEW AUGH222-25-30-□□□	233.5	258	308	3.0
NEW AUGH222-25-36-□□□	233.5	258	368	3.4
NEW AUGH222-25-43-□□□	233.5	258	438	3.9
NEW AUGH222-30-25-□□□	233.5	308	258	2.9
NEW AUGH222-30-30-□□□	233.5	308	308	3.3
NEW AUGH222-30-36-□□□	233.5	308	368	3.7
NEW AUGH222-30-43-□□□	233.5	308	438	4.2

Product no.	H	W	D	Weight (kg)
NEW AUGH222-30-50-□□□	233.5	308	508	4.8
NEW AUGH222-36-25-□□□	233.5	368	258	3.2
NEW AUGH222-36-30-□□□	233.5	368	308	3.6
NEW AUGH222-36-36-□□□	233.5	368	368	4.1
NEW AUGH222-36-43-□□□	233.5	368	438	4.7
NEW AUGH222-36-50-□□□	233.5	368	508	5.2
NEW AUGH222-43-25-□□□	233.5	438	258	3.6
NEW AUGH222-43-30-□□□	233.5	438	308	4.0
NEW AUGH222-43-36-□□□	233.5	438	368	4.6
NEW AUGH222-43-43-□□□	233.5	438	438	5.2
NEW AUGH222-43-50-□□□	233.5	438	508	5.8
NEW AUGH222-50-30-□□□	233.5	508	308	4.4
NEW AUGH222-50-36-□□□	233.5	508	368	5.0
NEW AUGH222-50-43-□□□	233.5	508	438	5.7
NEW AUGH222-50-50-□□□	233.5	508	508	6.3
NEW AUGH266-16-25-□□□	277.9	168	258	2.6
NEW AUGH266-16-30-□□□	277.9	168	308	3.0
NEW AUGH266-16-36-□□□	277.9	168	368	3.4
NEW AUGH266-16-43-□□□	277.9	168	438	3.9
NEW AUGH266-20-25-□□□	277.9	208	258	2.8
NEW AUGH266-20-30-□□□	277.9	208	308	3.2
NEW AUGH266-20-36-□□□	277.9	208	368	3.7
NEW AUGH266-20-43-□□□	277.9	208	438	4.2
NEW AUGH266-25-25-□□□	277.9	258	258	3.1
NEW AUGH266-25-30-□□□	277.9	258	308	3.5
NEW AUGH266-25-36-□□□	277.9	258	368	4.0
NEW AUGH266-25-43-□□□	277.9	258	438	4.6
NEW AUGH266-30-25-□□□	277.9	308	258	3.4
NEW AUGH266-30-30-□□□	277.9	308	308	3.8
NEW AUGH266-30-36-□□□	277.9	308	368	4.3
NEW AUGH266-30-43-□□□	277.9	308	438	5.0
NEW AUGH266-30-50-□□□	277.9	308	508	5.6
NEW AUGH266-36-25-□□□	277.9	368	258	3.7
NEW AUGH266-36-30-□□□	277.9	368	308	4.2
NEW AUGH266-36-36-□□□	277.9	368	368	4.7
NEW AUGH266-36-43-□□□	277.9	368	438	5.4
NEW AUGH266-36-50-□□□	277.9	368	508	6.1
NEW AUGH266-43-25-□□□	277.9	438	258	4.1
NEW AUGH266-43-30-□□□	277.9	438	308	4.6
NEW AUGH266-43-36-□□□	277.9	438	368	5.2
NEW AUGH266-43-43-□□□	277.9	438	438	5.9
NEW AUGH266-43-50-□□□	277.9	438	508	6.6
NEW AUGH266-50-30-□□□	277.9	508	308	5.1
NEW AUGH266-50-36-□□□	277.9	508	368	5.7
NEW AUGH266-50-43-□□□	277.9	508	438	6.5
NEW AUGH266-50-50-□□□	277.9	508	508	7.2

AUC series**MOUNTING PLATE for AU□ series****Customization example**

■ See page CUSTOM-9 ~ CUSTOM-11 and our website for further details.

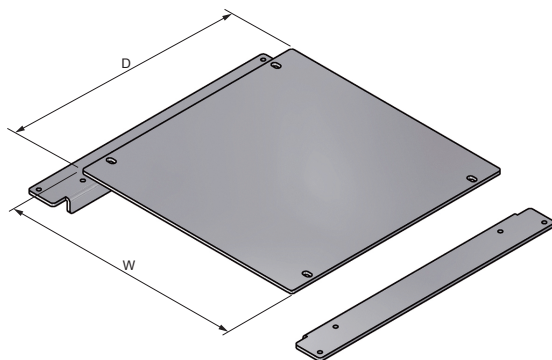
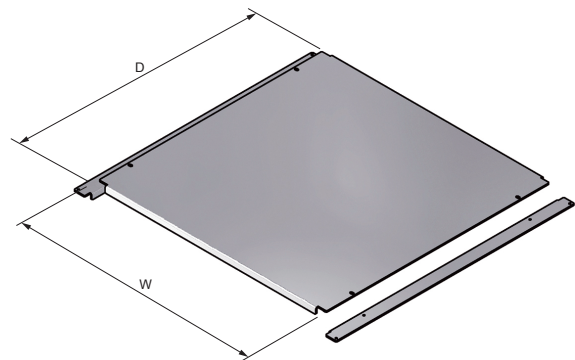
■ Mounting plate for AUR, AUPR, AUPRE, AUXR, AUXRE, AUGH, AUG, AUG, AU, AUP, AUPE, AUX, and AUXE series.

Components

No.	Part name	Pcs	Material	Finish
1	Mounting plate	1	Aluminium A1050P t=2.0	Unfinished
2	L-bracket	2	Aluminium A1050P t=2.0	Unfinished

Included screw :

- Corner block M3 flat head : Nickel plated x 4
- Mounting plate M3-5 pan head : Trivalent chromate x 4

AUC dimensions**Non-reinforced (N) type****Reinforced (Y) type**

■ DXF/DWG/PDF/STP drawings available on our website.

Product no. / Details

Product no.	W	D	Enclosure W x D	Reinforcement	Weight (g)
AUC16-16	108	108	160×160	N	102
AUC16-20	108	148	160×200	N	138
AUC16-25	108	198	160×250	N	181
AUC16-30	108	248	160×300	N	226
AUC16-36	108	308	160×360	N	279
AUC16-43	108	378	160×430	N	340
AUC20-16	148	108	200×160	N	126
AUC20-20	148	148	200×200	N	170
AUC20-25	148	198	200×250	N	224
AUC20-30	148	248	200×300	N	279
AUC20-36	148	308	200×360	N	345
AUC20-43	148	378	200×430	N	422
AUC25-16	198	108	250×160	N	155
AUC25-20	198	148	250×200	N	210
AUC25-25	198	198	250×250	N	278
AUC25-30	198	248	250×300	N	346
AUC25-36	198	308	250×360	N	428
AUC25-43	198	378	250×430	N	524
AUC30-16	248	108	300×160	N	184
AUC30-20	248	148	300×200	N	249
AUC30-25	248	198	300×250	N	331
AUC30-30	248	248	300×300	N	413
AUC30-36	248	308	300×360	N	512
AUC30-43	248	378	300×430	N	626
AUC30-50	248	448	300×500	N	741
AUC36-16	308	108	360×160	N	219
AUC36-20	308	148	360×200	N	297
AUC36-25	308	198	360×250	N	395
AUC36-30	308	248	360×300	N	494
AUC36-36	308	308	360×360	N	581
AUC36-43	308	378	360×430	N	749
AUC36-50	308	448	360×500	N	886
AUC43-16	378	108	430×160	Y	287
AUC43-20	378	148	430×200	Y	353
AUC43-25	378	198	430×250	Y	470
AUC43-30	378	248	430×300	Y	587
AUC43-36	378	308	430×360	Y	728
AUC43-43	378	378	430×430	Y	918
AUC43-50	378	448	430×500	Y	1,082
AUC50-30	448	248	500×300	Y	681
AUC50-36	448	308	500×360	Y	814
AUC50-43	448	378	500×430	Y	1,061
AUC50-50	448	448	500×500	Y	1,257
AUC60-36	548	308	600×360	Y	1,021
AUC60-43	548	378	600×430	Y	1,279

How to install AUC mounting plate

1. Install L-bracket onto countersunk screw hole on corner block.

2. Install mounting plate onto L-bracket with screws.

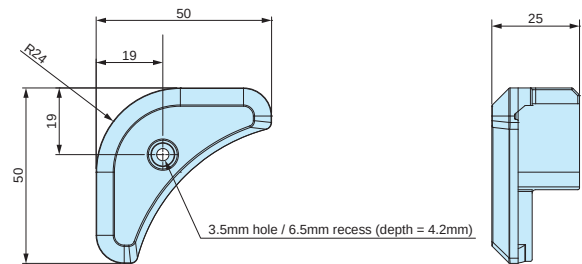


AUCG series

CORNER GUARD for AU□ series



AUCG dimensions



■ DXF/DWG/PDF drawings available on our website.

- Spare corner guard for AUGH, AUG and AUGE series. AUCG corner guard can also be installed on AU, AUP, AUPE, AUX, and AUXE series enclosures.
- 4 colors available: Black, Gray, Navy, and Red. Retailed as a pack of 8pcs.

Product no. / Details

Product no.				Weight (g)	Pack of
● Black	● Gray	● Navy	● Red		
AUCG-1B	AUCG-1G	AUCG-1N	AUCG-1R	9.5	8

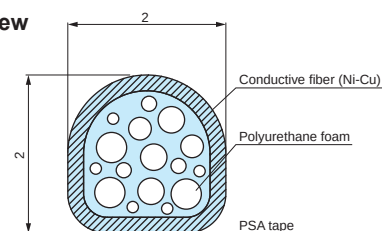
AEG-1000

EMC SHIELDING GASKET for AU□ series



- Spare EMC shielding gasket for AUPRE, AUXRE, AUGE, AUPE, and AUXE series enclosures. Installation on AUP and ARPR series is possible to allow it to be EMC shielded.

Cross section view



Product no. / Details

Product no.	Material	Color	Sales unit
AEG-1000	Conductive fiber UL94V-0	Metallic gray	1000mm x 1 pc

HIGH-END DESIGN Aluminium Case HD series

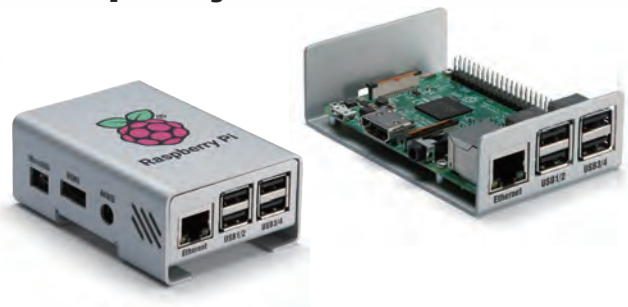


**Distinctive design,
suitable for many different devices**

Industrial Embedded System



Raspberry Pi



Data Transmitter / Receiver



Measurement / Test Equipment

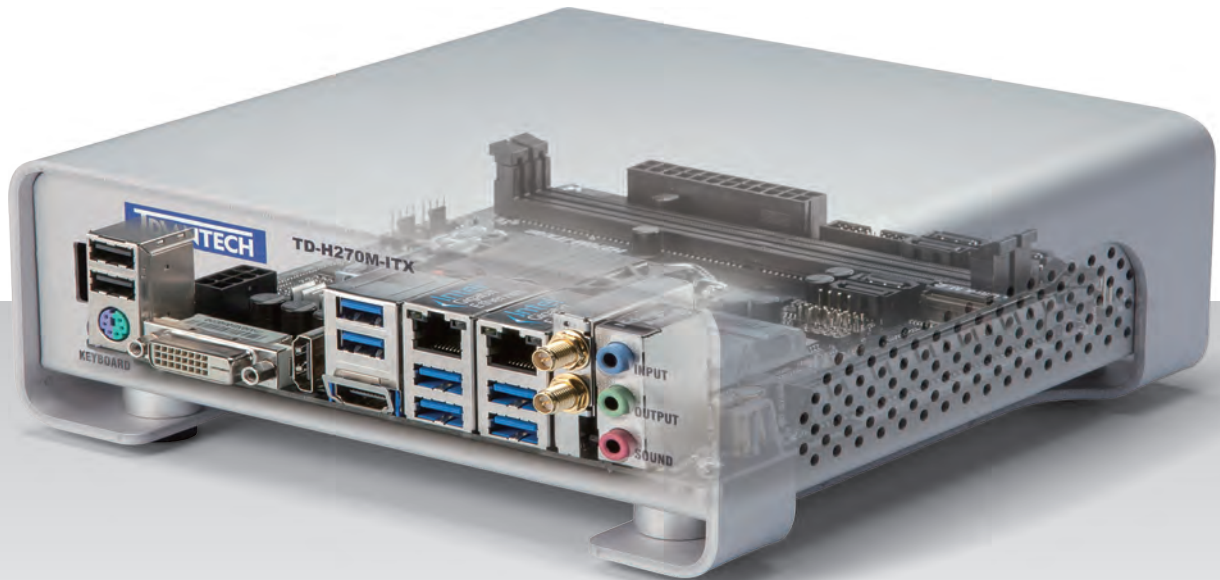


Audio Amplifier



Power Supply





Compatibility with Standard Board Sizes

Raspberry Pi

Board Size
56×85mm

EURO BOARD

Board Size
100×160mm

3.5 inch Board

Board Size
146×102mm

Mini STX

Board Size
140×147mm

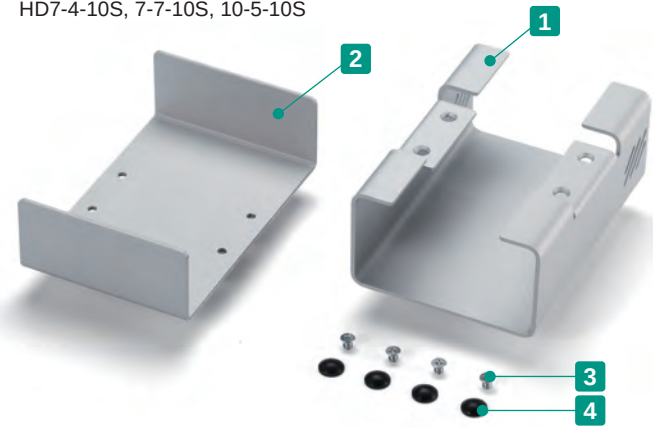
Mini ITX

Board Size
170×170mm

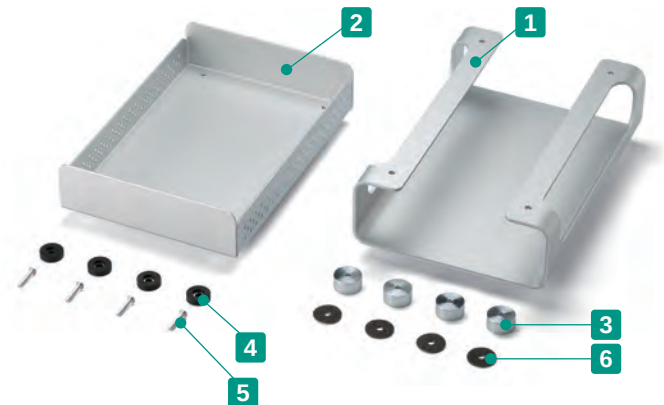


- Distinctively designed aluminium case.
- Polished, elegant and sleek metallic silver finish.
- Suitable for embedded system, measuring equipment, data transmitter, audio amplifier, and more.

HD7-4-10S, 7-7-10S, 10-5-10S



Other models



Components

HD7-4-10S, 7-7-10S, 10-5-10S

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Aluminium A1100P	Metallic silver / Painted (Conductive inside)
2	Base	1	Aluminium A1100P	Metallic silver / Painted (Conductive inside)
3	Screw	4	Steel	Trivalent chromate
4	Rubber feet	4	Synthetic rubber	Black

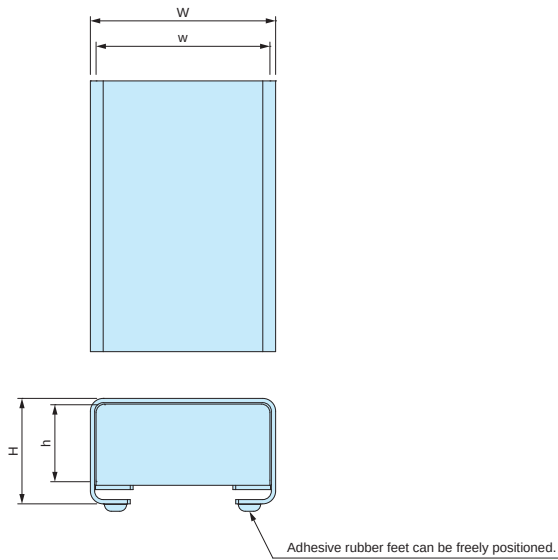
Other models

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Aluminium	Metallic silver / Painted
2	Base	1	Aluminium	Metallic silver / Painted
3	Pillar feet	4	Extruded Aluminium A6063S-T5	Silver / Anodized
4	Rubber feet	4	Synthetic rubber	Black
5	Screw	4	Steel	Trivalent chromate
6	Cushion	4	Polyethylene	Black

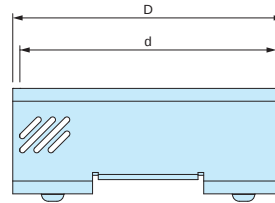
HD dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

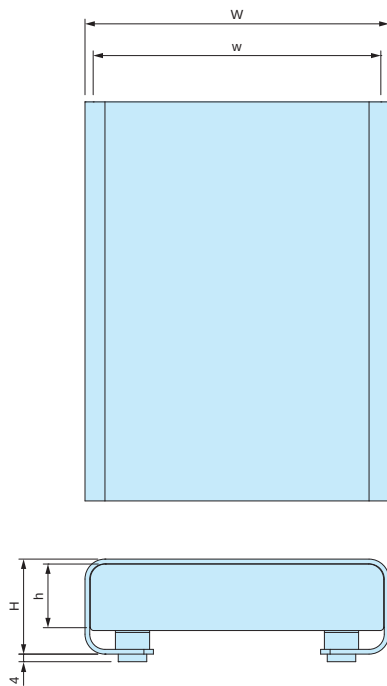
HD7-4-10S • 7-7-10S • 10-5-10S (Conductive)



Included screw : M3-4 flat head

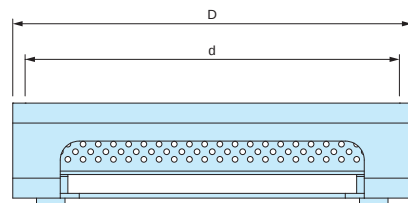


Other models



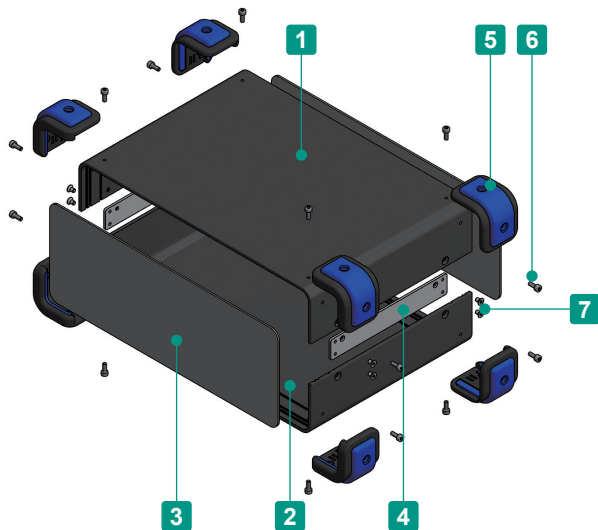
HD11-5-18S ~ HD16-5-21S
Included screw : M3-16 flat head

HD19-8-21S ~ HD32-10-23S
Included screw : M3-20 flat head



Product no. / Details

Product no.	External dimensions			Internal dimensions			Compatible board	Weight (g)
	W	H	D	w	h	d		
HD 7- 4-10S	65	37	95	61	27	90	Raspberry Pi (56 x 85)	94.1
HD 7- 7-10S	65	65	95	61	55.5	90		129
HD10- 5-10S	95	48	95	91	35.5	90	—	138.5
HD11- 5-18S	111	50	175	102.4	33.5	162	Euro Board (100 x 160)	386.3
HD11- 7-18S	111	70	175	102.4	53.5	162		447.7
HD15- 7-16S	151	65	162	142.4	48.5	149	Mini STX (140 x 147)	500.8
HD16- 6-12S	157	60	118	148.4	43.5	105	3.5 Inch Board (146 x 102)	382.1
HD16- 5-21S	160	50	210	151.4	33.5	197	—	573.9
HD19- 8-21S	192	75	210	182.4	57.5	197	Mini ITX (170 x 170)	838.1
HD21-14-25S	210	135	250	199.4	117	236	—	1587.8
HD26- 8-20S	260	80	200	249.4	62	186	—	1162.8
HD32-10-23S	320	100	230	309.4	82	216	—	1678



- Aluminium case equipped with shockproof and anti-slip corner guards.
- Available in 8 sizes and 5 different corner guard color variations.
- Custom sizes available.

Included screws
 Corner guard screw - M3-8 Hexagonal x 16 pcs
 Case screw - M3 Hexagonal flat head x 12 pcs
 ※ 2 Hexagonal wrenches included.
 (The larger for corner guard screw, the smaller for case screw)

Components

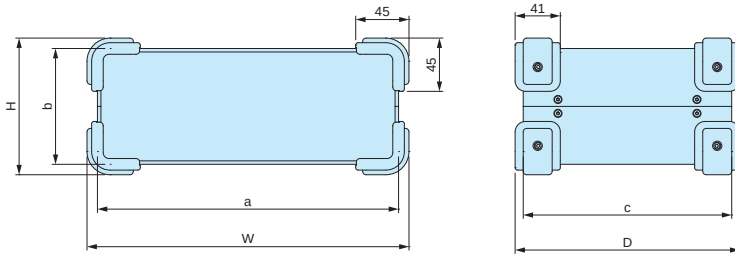
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Extruded aluminium A6063S-T5	Black / Painted
2	Bottom cover	1	Extruded aluminium A6063S-T5	Black / Painted
3	Panel	2	Aluminium A1100P t=1.5	Black / Painted
4	Joint plate	2	Steel SPCC t=2.0	Trivalent chromate
5	Corner guard	8	PP + Silicone	Black • Emerald • Gray • Navy • Red
6	Corner guard screw	16	Steel	Trivalent chromate
7	Case screw	12	Steel	Trivalent chromate

■ Panels are covered with a protective film on one side.

Color Type

Code	B B Black / Black	B E Black / Emerald	B G Black / Gray	B N Black / Navy	B R Black / Red
Color					

UCG dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

Accessories (Optional parts)



Mounting plate UCC series
See page 303

Elastomer handle FM200 series
See website

Product no. / Details

■ Please suffix color code at the end of the product number.

Product no.	W	H	D	a	b	c	Standard Compatible Mounting Plate	Weight (kg)
UCG15- 9-20□□	168	108	214	150	90	200	YES	1.14
UCG18-10-24□□	198	118	254	180	100	240	YES	1.44
UCG18-18-28□□	198	198	294	180	180	280	N/A	2.23
UCG20- 9-14□□	218	108	154	200	90	140	YES	1.13
UCG22-12-16□□	238	138	174	220	120	160	N/A	1.28
UCG26-10-18□□	278	118	194	260	100	180	YES	1.96
UCG32-12-22□□	338	138	234	320	120	220	YES	2.13
UCG38-15-26□□	398	168	274	380	150	260	N/A	3.19

■ Mounting plate can be custom ordered.

Accessories (Optional parts)

UG-1 CORNER GUARD for UC • UCG

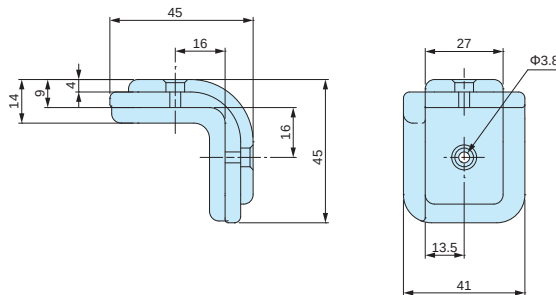


Application example



- Corner guard parts for UC • UCG series.
- M3 thread holes are required in order to fix on UC series.
- Available in 5 different color variations.

UG-1 dimensions



■ DXF/DWG/PDF/STP drawings available on our website.

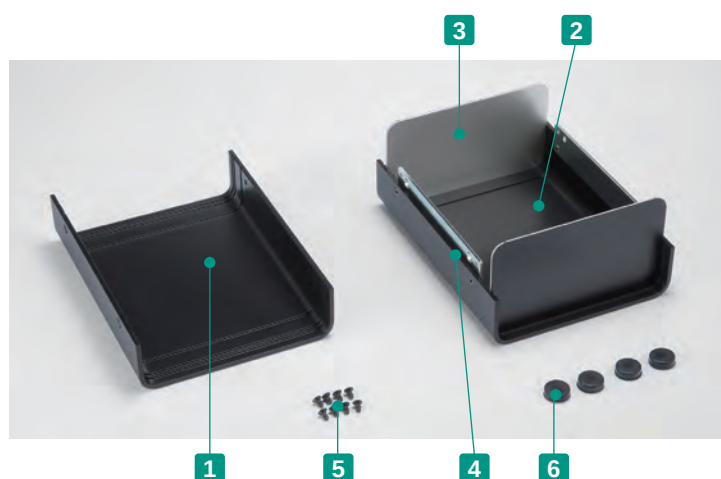
Components

No.	Part name	Material
1	Corner guard base	PP
2	Corner guard	Silicone
3	Screw (M3-8 Hexagonal)	Steel

Product no. / Details

Product no.					Weight (g)	Pack of
Black	Emerald	Gray	Navy	Red		
UG-1B	UG-1E	UG-1G	UG-1N	UG-1R	210.5	8

Included screw : M3-8 Hexagonal : Steel : Trivalent chromate x 16 pcs + 2 Hexagonal wrench



- Simple structure and tough case with extruded aluminium covers
- 36 sizes and 2 different colors for a total of 72 different combinations.
- 2 or 3 grooves available on top/bottom covers for adjusting front/rear panel positions or PCB insertion.
- Optional mounting plate, mounting bracket, panel retainer, and TORX screw are available.
- Custom length is available.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Extruded aluminium A6063S-T5	Metallic silver • Black / Painted
2	Bottom cover	1	Extruded aluminium A6063S-T5	Metallic silver • Black / Painted
3	Panel	2	Aluminium A1100P t=1.5	Metallic silver (Conductive inside) • Black / Painted
4	Joint plate	2	Steel SPCC t=2.0	Trivalent chromate
5	Screw (M3 flat head)	12	Steel	Black trivalent chromate
6	Rubber feet	4	Synthetic rubber	Black

■ Panels are covered with a protective film on one side.

Accessories (Optional parts)



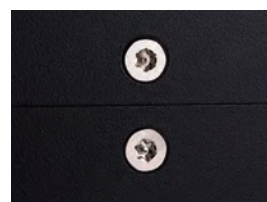
Mounting plate UCC series
See page 303



Mounting bracket UCK-P series
See page 304



Panel retainer UCF-26
See page 304



TORX screw MR-1
See website



Aluminium isolation feet AFS • AFM series
See page 333

UC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

Color Type

NEW ● SS

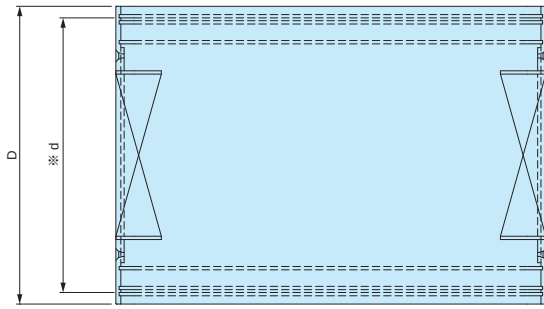


Cover	Metallic silver
Panel	Metallic silver

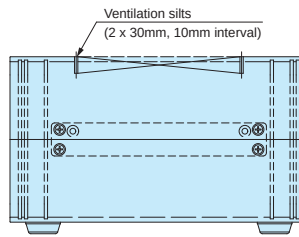
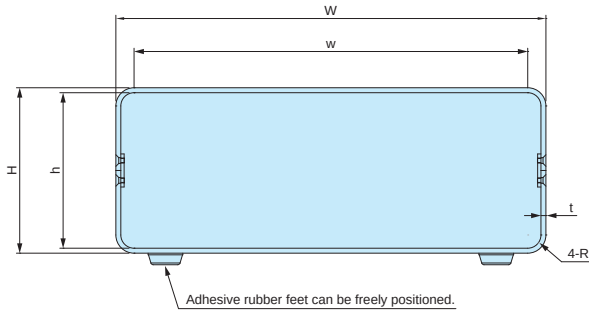
● BB



Cover	Black
Panel	Black



*d dimension varies depending on panel mount position. Dimensions listed are based on outermost mount position.



Product no. / Details

- Please suffix color code at the end of the product number.
- See below chart for ventilation slits availability.

Product no.	External dimensions			Internal dimensions			R	t	Ventilation slits	Weight (kg)
	W	H	D	w	h	d				
UC 6- 3- 8□	60	35	80	50	31	72	3	2	—	0.12
UC 7- 3-10□	75	30	100	65	26	92	3	2	—	0.16
UC 7- 8-14□	75	85	140	60	80	130	5	2.5	—	0.37
UC 8- 3- 6□	80	30	60	70	26	52	3	2	—	0.10
UC 9- 5-12□	90	50	120	75	45	112	5	2.5	—	0.29
UC10- 4-14□	100	40	140	85	35	130	5	2.5	—	0.32
UC10-11-18□	100	110	180	78	104	166	8	3	—	0.72
UC11- 3- 8□	110	30	80	100	26	72	3	2	—	0.17
UC11- 5- 8□	110	50	80	100	46	72	3	2	—	0.20
UC12- 7-16□	120	70	160	98	64	146	8	3	—	0.56
UC12-14-22□	120	140	220	98	134	206	8	3	○	1.08
UC13- 4-18□	130	40	180	108	34	166	8	3	—	0.56
UC14- 4-10□	140	40	100	130	36	92	3	2	—	0.27
UC14- 6-10□	140	60	100	130	56	92	3	2	—	0.31
UC15- 8-20□	150	80	200	128	74	186	8	3	○	0.86
UC15-10-12□	150	100	120	135	95	112	5	2.5	—	0.53
UC15-18-28□	150	180	280	128	174	266	8	3	○	1.74
UC16- 5-22□	165	50	220	143	44	206	8	3	○	0.84
UC17- 5-12□	170	50	120	155	45	112	5	2.5	—	0.45
UC17- 7-12□	170	70	120	155	65	112	5	2.5	—	0.51
UC18-10-24□	180	100	240	158	94	226	8	3	○	1.26
UC18-21-34□	180	210	340	157.6	203.6	326	8	3.2	○	2.63
UC20- 5-14□	200	50	140	185	45	130	5	2.5	—	0.56
UC20- 8-14□	200	80	140	185	75	130	5	2.5	—	0.67
UC20-12-16□	200	120	160	178	114	146	8	3	—	0.82
UC22-12-26□	220	120	260	198	114	246	8	3	○	1.70
UC24-14-34□	240	140	340	217.6	133.6	326	8	3.2	○	2.54
UC26- 5-18□	260	50	180	238	44	166	8	3	○	1.02
UC26- 7-20□	260	70	200	238	64	186	8	3	○	1.23
UC26-10-18□	260	100	180	238	94	166	8	3	○	1.26
UC32- 5-22□	320	50	220	298	44	206	8	3	○	1.45
UC32- 8-24□	320	80	240	298	74	226	8	3	○	1.76
UC32-12-22□	320	120	220	298	114	206	8	3	○	1.88
UC35-13-26□	350	130	260	328	124	246	8	3	○	2.45
UC43- 5-28□	430	50	280	408	44	266	8	3	○	2.37
UC43-14-28□	430	140	280	408	134	266	8	3	○	3.05

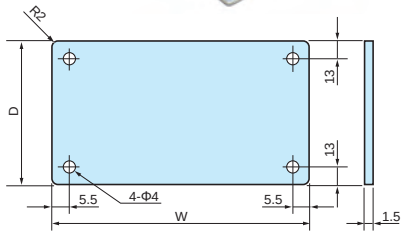
UCC series

MOUNTING PLATE for UC • UCG

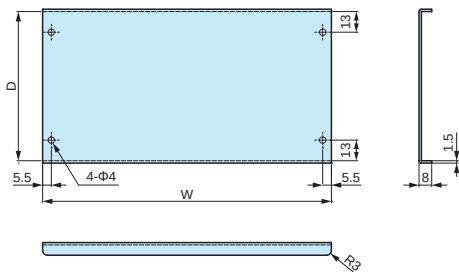
■ DXF/DWG/PDF drawings available on our website.



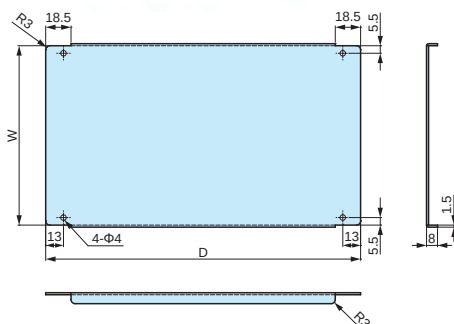
Type A



Type B



Type C



Components

Part name	Pcs	Material	Color / Finish
Mounting plate	1	Aluminium A1050P t=1.5	Unfinished
Screw	4	Steel M3-5	Trivalent chromate

Product no. / Details (Type A)

Product no.	Suitable models	W	D
UCC 6- 8	UC 6- 3- 8	43	58
UCC 7-10	UC 7- 3-10	58	78
UCC 8- 6	UC 8- 3- 6	63	38
UCC11- 8	UC 11- 3- 8	93	58
	UC 11- 5- 8		
UCC 9-12	UC 9- 5-12	72	94
UCC10-14	UC 10- 4-14	82	94
UCC12-16	UC 12- 7-16	101	110
UCC13-18	UC 13- 4-18	111	130
UCC15-20	UC 15- 8-20	131	150
	UCG15- 9-20		
UCC14-10	UC 14- 4-10	123	78
	UC 14- 6-10		
UCC15-12	UC 15-10-12	132	94
UCC17-12	UC 17- 5-12	152	94
	UC 17- 7-12		
UCC 7-14	UC 7- 8-14	57	94
UCC10-18	UC 10-11-18	81	130
UCC12-22	UC 12-14-22	101	170

Product no. / Details (Type B)

Product no.	Suitable models	W	D
UCC16-22	UC 16- 5-22	146	170
UCC18-24	UC 18-10-24	161	190
	UCG18-10-24		
UCC20-14	UC 20- 5-14	182	94
	UC 20- 8-14		
	UCG20- 9-14		
UCC22-26	UC 22-12-26	201	210
UCC20-16	UC 20-12-16	181	110
UCC26-18	UC 26- 5-18	241	130
	UC 26-10-18		
	UCG26-10-18		
UCC26-20	UC 26- 7-20	241	150
UCC32-22	UC 32- 5-22	301	170
	UC 32-12-22		
	UCG32-12-22		
UCC32-24	UC 32- 8-24	301	190
UCC35-26	UC 35-13-26	331	210
UCC43-28	UC 43- 5-28	411	230
	UC 43-14-28		

Product no. / Details (Type C)

Product no.	Suitable models	W	D
UCC15-28	UC 15-18-28	131	230
UCC18-34	UC 18-21-34	160.6	290
UCC24-34	UC 24-14-34	220.6	290

UCK-P series

MOUNTING BRACKET for UC • UCG



Components

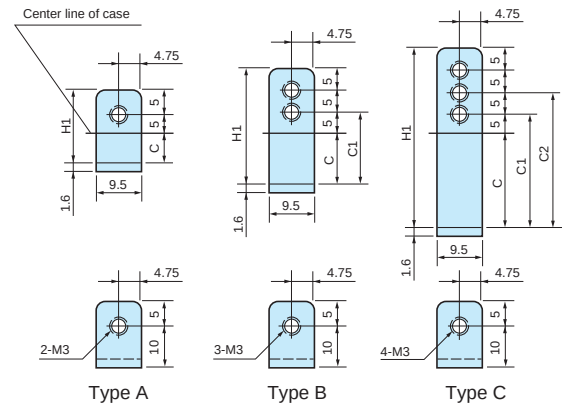
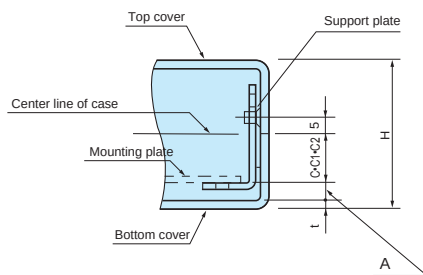
Part name	Material	Finish	Pack of
Mounting bracket	Steel SPCC t=1.6	Trivalent chromate	4

Product no. / Details

Product no.	Type	H1	C	C1	C2	Pack of
UCK-P 13	A	13	3	—	—	4
UCK-P 17	A	17	7	—	—	4
UCK-P 27	B	27	12	17	—	4
UCK-P 42	C	42	22	27	32	4
UCK-P 57	C	57	37	42	47	4
UCK-P 72	C	72	52	57	62	4
UCK-P 87	C	87	67	72	77	4
UCK-P102	C	102	82	87	92	4

■ DXF/DWG/PDF drawings available on our website.

UCK-P assembly drawings



Bracket matching chart / A dimension

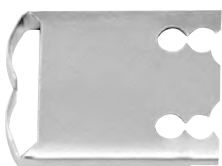
Product no.	Bracket no.	A
UC 6- 3- 8	UCK-P 13	12.5
	UCK-P 17	8.5
UC 7- 3-10	UCK-P 13	10
	UCK-P 17	6
UC 9- 5-12	UCK-P 17	15.5
	UCK-P 27	10.5 5.5
	UCK-P 13	14.5
UC 10- 4-14	UCK-P 17	10.5
	UCK-P 27	5.5
	UCK-P 27	15
UC 12- 7-16	UCK-P 42	10
	UCK-P 13	14
UC 13- 4-18	UCK-P 17	10
UC 15- 8-20	UCK-P 42	15 10 5
	UCK-P 13	19
	UCK-P 17	15
	UCK-P 27	10
UC 16- 5-22	UCK-P 27	19.8
	UCK-P 72	14.8 9.8
	UCK-P 13	10
UC 8- 3- 6	UCK-P 17	6
	UCK-P 13	10
UC 11- 3- 8	UCK-P 17	6
	UCK-P 17	16
UC 11- 5- 8	UCK-P 27	11 6

Product no.	Bracket no.	A
UC 14- 4-10	UCK-P 13	15
	UCK-P 17	11
	UCK-P 27	6
UC 14- 6-10	UCK-P 27	16 11
	UCK-P 42	6
	UCK-P 42	10
UC 15- 9-20	UCK-P 57	20.5 15.5
	UCK-P 42	10.5 5.5
	UCK-P 17	15.5
UC 15-10-12	UCK-P 27	10.5 5.5
	UCK-P 27	15.5
	UCK-P 42	10.5 5.5
UC 17- 5-12	UCK-P 13	19.5
	UCK-P 17	15.5
	UCK-P 27	10.5 5.5
UC 17- 7-12	UCK-P 42	10.5 5.5
	UCK-P 13	19.5
	UCK-P 17	15.5
UC 20- 5-14	UCK-P 27	10.5 5.5
	UCK-P 42	20.5
	UCK-P 42	15.5 10.5
UC 20- 8-14	UCK-P 42	5
	UCK-P 57	20 15 10
	UCK-P 13	19
UC 20-12-16	UCK-P 17	15
	UCK-P 27	10
	UCK-P 27	10

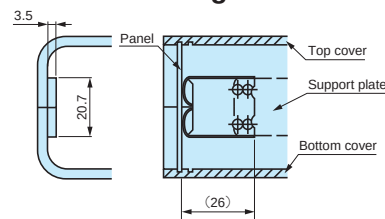
Product no.	Bracket no.	A
UC 26-10-18	UCK-P 42	20 15
UCG 26-10-18	UCK-P 57	10
UCG 26- 7-20	UCK-P 27	15
	UCK-P 42	10
UC 18-10-24	UCK-P 42	20 15
UCG 18-10-24	UCK-P 57	10
UC 22-12-26	UCK-P 57	20 15 10
	UCK-P 13	19
	UCK-P 17	15
UC 32- 5-22	UCK-P 27	10
	UCK-P 57	20 15 10
	UCK-P 42	15 10 5
UC 32-12-22	UCK-P 57	25 20 15
	UCK-P 72	10 5
	UCK-P 13	19
UCG 32-12-22	UCK-P 17	15
	UCK-P 27	10
	UCK-P 57	20
UC 32- 8-24	UCK-P 72	15 10
	UCK-P 13	19
	UCK-P 17	15
UC 35-13-26	UCK-P 27	10
	UCK-P 57	20
	UCK-P 72	15 10
UC 43- 5-28	UCK-P 42	18 13 8
	UCK-P 57	15 10 5
	UCK-P 72	15 10 5
UC 43-14-28	UCK-P 87	20 15 10
	UCK-P 102	19.8 14.8 9.8

UCF-26

PANEL RETAINER for UC • UCG



UCF-26 drawings



■ DXF/DWG/PDF drawings available on our website.

Product no. / Details

Product no.	Material	Finish	Pack of
UCF-26	Stainless steel t=0.3	Unfinished	2

■ Not applicable for use on 60, 80, 100 and 120 "D" dimension cases.



- Available in 3 different colors and 176 different sizes.
- Screws are hidden out of view for a sophisticated and elegant look.
- Suitable for use as measuring instruments, testing equipment, power supply controller, etc.



MSN series
Tip-Up Handle Model



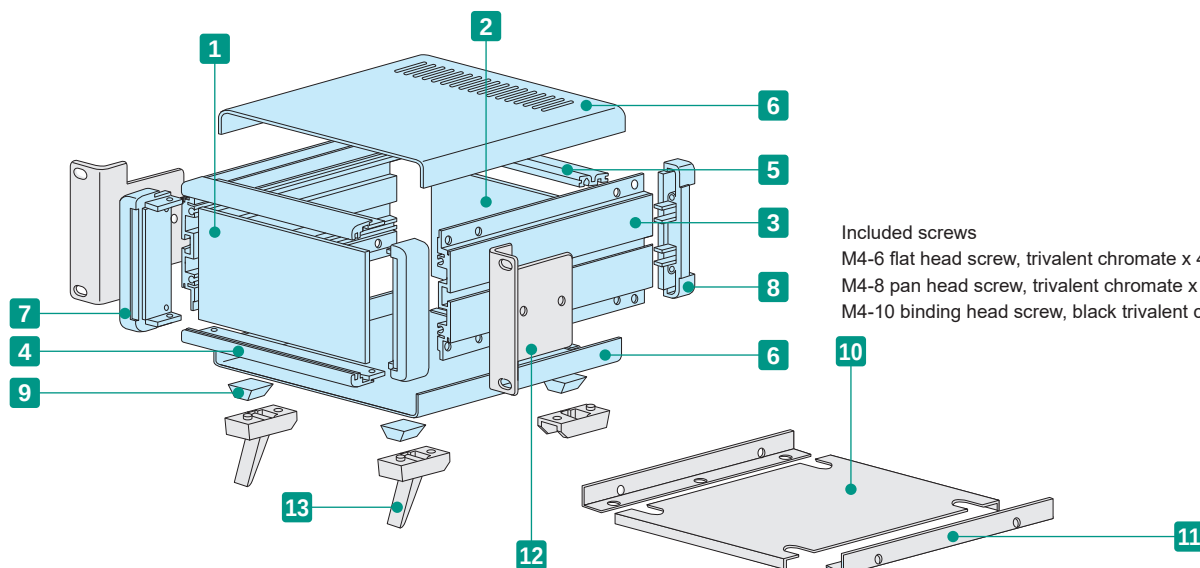
MSY series
Carrying Handle Model



MSR series
19" Rack Mount Model

Variations of MS series, MSN, MSY and MSR series are also available. See website for more details.

Assembly drawings



Included screws
M4-6 flat head screw, trivalent chromate x 4 pcs
M4-8 pan head screw, trivalent chromate x 8 pcs
M4-10 binding head screw, black trivalent chromate x 4 pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Front panel	1	Aluminium A1100P t=2.0	Silver • Black / Anodized
2	Rear panel	1	Aluminium A1100P t=2.0	Silver • Black / Anodized
3	Side frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
4	Front frame	2	Extruded aluminium A6063S-T5	Gray • Black / Painted
5	Rear frame	2	Extruded aluminium A6063S-T5	Silver / Anodized
6	Top • Bottom cover	1 each	Steel SPCC t=1.0	Light gray • Black / Painted
7	Corner block	2	Diecast aluminium ADC12	Gray • Black / Painted
8	Rear feet	2	ABS UL94V-0	Gray • Black
9	Rubber feet	4	Polyurethane	Black

■ Front • Rear panels are covered with a protective film on one side.

Accessories (Optional parts)



10 Mounting plate MSC series
See page 309



11 L-bracket MSCL series
See page 309



12 Rack mounting MSM series
See website

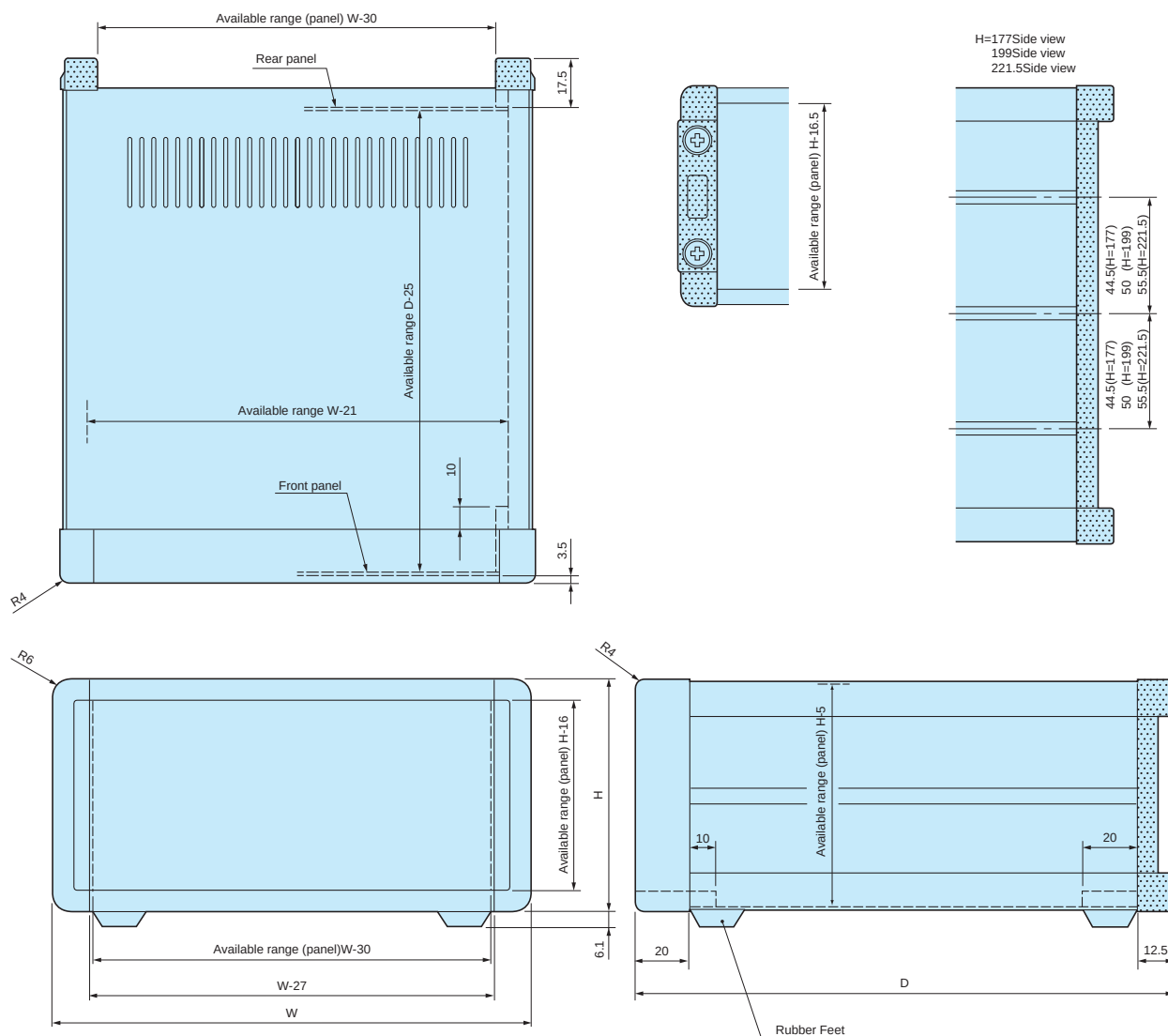


13 Tilt leg TL series
See page 310

Cable hook CBF series
See page 310

MS dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



■ Top • Bottom cover of sizes 160x160, 160x230, 160x280, 210x160 do not have ventilation holes.

Color Type

■ Please suffix color code at the end of the product number.

● GS		● B		● BS	
Panel	Silver	Panel	Black	Panel	Silver
Top • Bottom cover	Light gray	Top • Bottom cover	Black	Top • Bottom cover	Black
Side frame	Gray	Side frame	Black	Side frame	Black

Product no. / Details

Product no.	H	W	D	Weight (kg)
MS 66-16-16□	66	160	160	1.0
MS 66-16-23□	66	160	230	1.3
MS 66-16-28□	66	160	280	1.6
MS 66-21-16□	66	210	160	1.2
MS 66-21-23□	66	210	230	1.6
MS 66-21-28□	66	210	280	1.8
MS 66-21-35□	66	210	350	2.2
MS 66-26-23□	66	260	230	1.8
MS 66-26-28□	66	260	280	2.1
MS 66-26-35□	66	260	350	2.6
MS 66-32-23□	66	320	230	2.1
MS 66-32-28□	66	320	280	2.5
MS 66-32-35□	66	320	350	3.0
MS 66-32-45□	66	320	450	3.7
MS 66-37-23□	66	370	230	2.4
MS 66-37-28□	66	370	280	2.8
MS 66-37-35□	66	370	350	3.3
MS 66-37-45□	66	370	450	4.1
MS 66-43-23□	66	430	230	2.7
MS 66-43-28□	66	430	280	3.1
MS 66-43-35□	66	430	350	3.7
MS 66-43-45□	66	430	450	4.6
MS 88-16-16□	88	160	160	1.1
MS 88-16-23□	88	160	230	1.5
MS 88-16-28□	88	160	280	1.7
MS 88-21-16□	88	210	160	1.3
MS 88-21-23□	88	210	230	1.8
MS 88-21-28□	88	210	280	2.1
MS 88-21-35□	88	210	350	2.5
MS 88-26-23□	88	260	230	2.0
MS 88-26-28□	88	260	280	2.5
MS 88-26-35□	88	260	350	2.8
MS 88-32-23□	88	320	230	2.3
MS 88-32-28□	88	320	280	2.8
MS 88-32-35□	88	320	350	3.2
MS 88-32-45□	88	320	450	4.0
MS 88-37-23□	88	370	230	2.6
MS 88-37-28□	88	370	280	3.0
MS 88-37-35□	88	370	350	3.6
MS 88-37-45□	88	370	450	4.4
MS 88-43-23□	88	430	230	2.9
MS 88-43-28□	88	430	280	3.4
MS 88-43-35□	88	430	350	4.0
MS 88-43-45□	88	430	450	5.0

Product no.	H	W	D	Weight (kg)
MS 99-16-16□	99	160	160	1.1
MS 99-16-23□	99	160	230	1.5
MS 99-16-28□	99	160	280	1.8
MS 99-21-16□	99	210	160	1.4
MS 99-21-23□	99	210	230	1.8
MS 99-21-28□	99	210	280	2.1
MS 99-21-35□	99	210	350	2.5
MS 99-26-23□	99	260	230	2.0
MS 99-26-28□	99	260	280	2.4
MS 99-26-35□	99	260	350	2.8
MS 99-32-23□	99	320	230	2.4
MS 99-32-28□	99	320	280	2.8
MS 99-32-35□	99	320	350	3.3
MS 99-32-45□	99	320	450	4.0
MS 99-37-23□	99	370	230	2.6
MS 99-37-28□	99	370	280	3.0
MS 99-37-35□	99	370	350	3.6
MS 99-37-45□	99	370	450	4.5
MS 99-43-23□	99	430	230	3.0
MS 99-43-28□	99	430	280	3.4
MS 99-43-35□	99	430	350	4.1
MS 99-43-45□	99	430	450	5.0
MS133-16-16□	132.5	160	160	1.3
MS133-16-23□	132.5	160	230	1.7
MS133-16-28□	132.5	160	280	2.0
MS133-21-16□	132.5	210	160	1.6
MS133-21-23□	132.5	210	230	2.1
MS133-21-28□	132.5	210	280	2.4
MS133-21-35□	132.5	210	350	2.9
MS133-26-23□	132.5	260	230	2.4
MS133-26-28□	132.5	260	280	2.8
MS133-26-35□	132.5	260	350	3.3
MS133-32-23□	132.5	320	230	2.7
MS133-32-28□	132.5	320	280	3.2
MS133-32-35□	132.5	320	350	3.7
MS133-32-45□	132.5	320	450	4.5
MS133-37-23□	132.5	370	230	3.0
MS133-37-28□	132.5	370	280	3.5
MS133-37-35□	132.5	370	350	4.1
MS133-37-45□	132.5	370	450	5.0
MS133-43-23□	132.5	430	230	3.4
MS133-43-28□	132.5	430	280	3.9
MS133-43-35□	132.5	430	350	4.6
MS133-43-45□	132.5	430	450	5.6

Product no. / Details

Product no.	H	W	D	Weight (kg)
MS149-16-16□	149	160	160	1.4
MS149-16-23□	149	160	230	1.8
MS149-16-28□	149	160	280	2.1
MS149-21-16□	149	210	160	1.6
MS149-21-23□	149	210	230	2.1
MS149-21-28□	149	210	280	2.4
MS149-21-35□	149	210	350	2.9
MS149-26-23□	149	260	230	2.4
MS149-26-28□	149	260	280	2.8
MS149-26-35□	149	260	350	3.3
MS149-32-23□	149	320	230	2.7
MS149-32-28□	149	320	280	3.2
MS149-32-35□	149	320	350	3.8
MS149-32-45□	149	320	450	4.6
MS149-37-23□	149	370	230	3.0
MS149-37-28□	149	370	280	3.5
MS149-37-35□	149	370	350	4.1
MS149-37-45□	149	370	450	5.1
MS149-43-23□	149	430	230	3.4
MS149-43-28□	149	430	280	3.9
MS149-43-35□	149	430	350	4.6
MS149-43-45□	149	430	450	5.6
MS177-16-16□	177	160	160	1.6
MS177-16-23□	177	160	230	2.2
MS177-16-28□	177	160	280	2.5
MS177-21-16□	177	210	160	1.9
MS177-21-23□	177	210	230	2.7
MS177-21-28□	177	210	280	3.1
MS177-21-35□	177	210	350	3.6
MS177-26-23□	177	260	230	3.0
MS177-26-28□	177	260	280	3.4
MS177-26-35□	177	260	350	4.0
MS177-32-23□	177	320	230	3.3
MS177-32-28□	177	320	280	3.9
MS177-32-35□	177	320	350	4.5
MS177-32-45□	177	320	450	5.5
MS177-37-23□	177	370	230	3.6
MS177-37-28□	177	370	280	4.2
MS177-37-35□	177	370	350	4.9
MS177-37-45□	177	370	450	6.0
MS177-43-23□	177	430	230	4.0
MS177-43-28□	177	430	280	4.6
MS177-43-35□	177	430	350	5.4
MS177-43-45□	177	430	450	6.6

Product no.	H	W	D	Weight (kg)
MS199-16-16□	199	160	160	1.9
MS199-16-23□	199	160	230	2.4
MS199-16-28□	199	160	280	2.7
MS199-21-16□	199	210	160	2.1
MS199-21-23□	199	210	230	2.7
MS199-21-28□	199	210	280	3.1
MS199-21-35□	199	210	350	3.7
MS199-26-23□	199	260	230	3.1
MS199-26-28□	199	260	280	3.5
MS199-26-35□	199	260	350	4.1
MS199-32-23□	199	320	230	3.4
MS199-32-28□	199	320	280	3.9
MS199-32-35□	199	320	350	4.7
MS199-32-45□	199	320	450	5.7
MS199-37-23□	199	370	230	3.8
MS199-37-28□	199	370	280	4.3
MS199-37-35□	199	370	350	5.1
MS199-37-45□	199	370	450	6.0
MS199-43-23□	199	430	230	4.2
MS199-43-28□	199	430	280	4.8
MS199-43-35□	199	430	350	5.6
MS199-43-45□	199	430	450	6.9
MS222-16-16□	222	160	160	2.0
MS222-16-23□	222	160	230	2.5
MS222-16-28□	222	160	280	2.8
MS222-21-16□	222	210	160	2.2
MS222-21-23□	222	210	230	2.8
MS222-21-28□	222	210	280	3.2
MS222-21-35□	222	210	350	3.8
MS222-26-23□	222	260	230	3.2
MS222-26-28□	222	260	280	3.6
MS222-26-35□	222	260	350	4.3
MS222-32-23□	222	320	230	3.6
MS222-32-28□	222	320	280	4.1
MS222-32-35□	222	320	350	4.9
MS222-32-45□	222	320	450	6.0
MS222-37-23□	222	370	230	3.9
MS222-37-28□	222	370	280	4.5
MS222-37-35□	222	370	350	5.3
MS222-37-45□	222	370	450	6.4
MS222-43-23□	222	430	230	4.4
MS222-43-28□	222	430	280	5.0
MS222-43-35□	222	430	350	5.9
MS222-43-45□	222	430	450	7.2

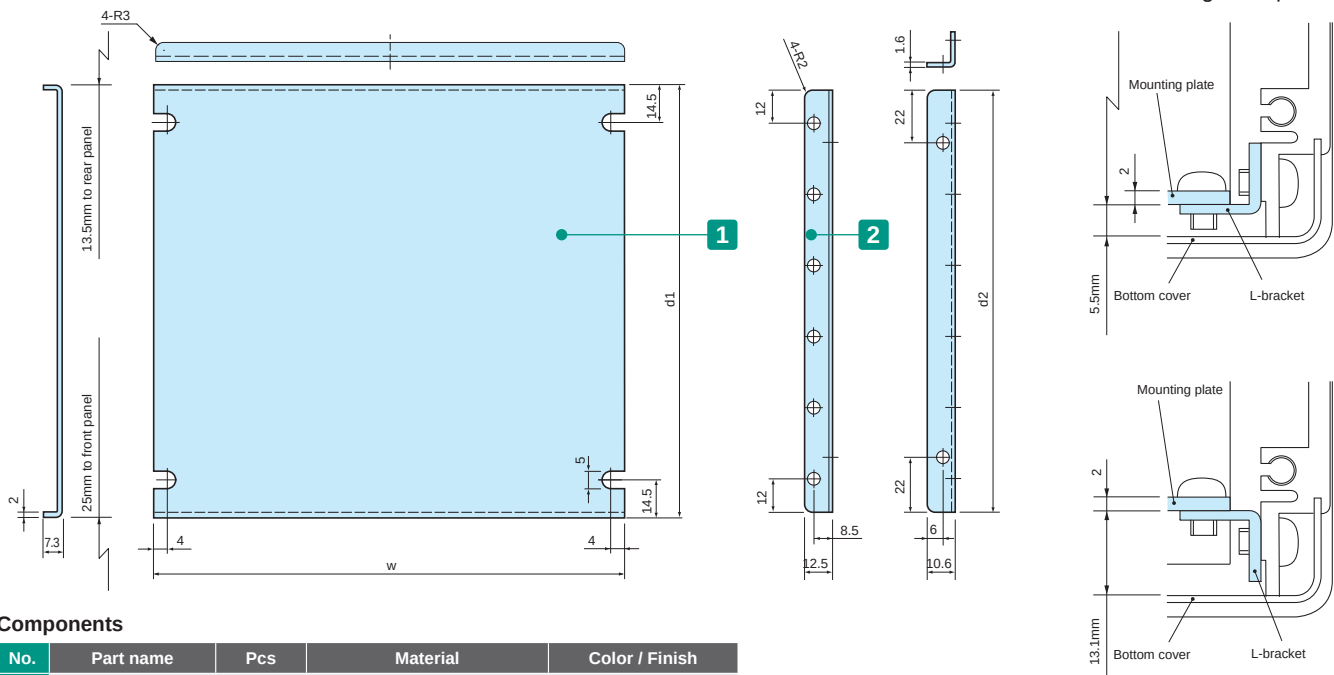
MSC series

MOUNTING PLATE for MS

MSC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

Mounting example



Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting plate	1	Aluminium A1050P t=2.0	Unfinished
2	L-bracket	2	Steel SPCC	Trivalent chromate

Included screws: M4-6 pan head, trivalent chromate x8

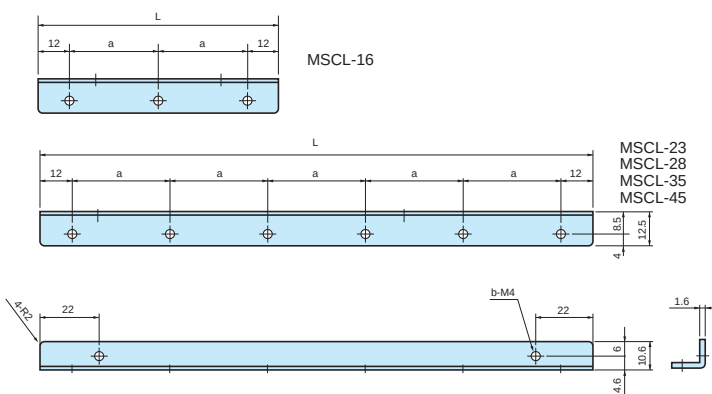
Product no. / Details

Product no.	w	d1	d2	Enclosure W×D	Weight (g)
MSC16-16	130	96.5	91.5	160 × 160	120
MSC16-23	130	166.5	161.5	160 × 230	210
MSC16-28	130	216.5	211.5	160 × 280	270
MSC21-16	180	96.5	91.5	210 × 160	150
MSC21-23	180	166.5	161.5	210 × 230	250
MSC21-28	180	216.5	211.5	210 × 280	330
MSC21-35	180	286.5	281.5	210 × 350	430
MSC26-23	230	166.5	161.5	260 × 230	300
MSC26-28	230	216.5	211.5	260 × 280	390
MSC26-35	230	286.5	281.5	260 × 350	510
MSC32-23	290	166.5	161.5	320 × 230	360

Product no.	w	d1	d2	Enclosure W×D	Weight (g)
MSC32-28	290	216.5	211.5	320 × 280	460
MSC32-35	290	286.5	281.5	320 × 350	600
MSC32-45	290	386.5	381.5	320 × 450	810
MSC37-23	340	166.5	161.5	370 × 230	410
MSC37-28	340	216.5	211.5	370 × 280	520
MSC37-35	340	286.5	281.5	370 × 350	680
MSC37-45	340	386.5	381.5	370 × 450	910
MSC43-23	400	166.5	161.5	430 × 230	460
MSC43-28	400	216.5	211.5	430 × 280	590
MSC43-35	400	286.5	281.5	430 × 350	770
MSC43-45	400	386.5	381.5	430 × 450	1,040

MSCL series

L-BRACKET for MS



- Use with your original mounting plate or PCB.
- 1 pair of L-bracket are included with each MSC mounting plate.

Components

Part name	Material	Color / Finish
L-bracket	Steel SPCC	Trivalent chromate

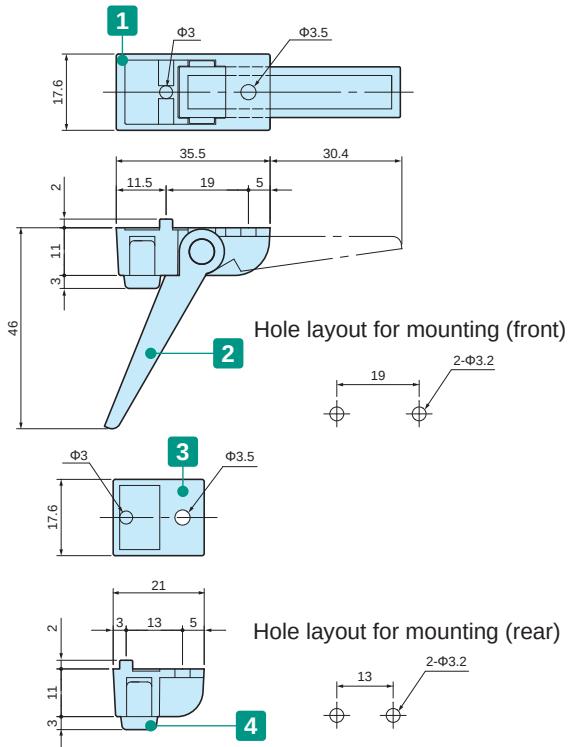
Product no. / Details

Product no.	L	a	b	Sales unit
MSCL-16	91.5	33.75	5	1 set (2 pcs)
MSCL-23	161.5	27.5	8	1 set (2 pcs)
MSCL-28	211.5	37.5	8	1 set (2 pcs)
MSCL-35	281.5	51.5	8	1 set (2 pcs)
MSCL-45	381.5	71.5	8	1 set (2 pcs)

TL series TILT LEG

TL dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

* Maximum load = 7 kg

No.	Part name	Pcs	Material	Color / Finish
1	Front feet	2	ABS UL94HB	Black • Light gray • Dark gray
2	Leg	2	ABS UL94HB	Black • Light gray • Dark gray
3	Rear feet	2	ABS UL94HB	Black • Light gray • Dark gray
4	Rubber feet	4	EPDM	Gray • Black
-	Screw	4	Steel	Black trivalent chromate

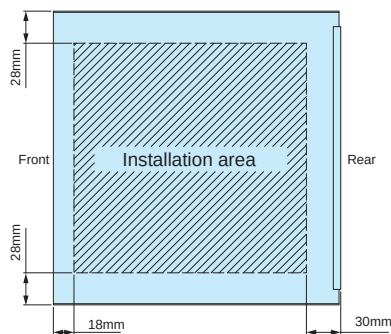
■ Included screws: M3-8 and M3 nut (with washer) set.

Product no. / Details

Product no.	Color (body)	Color (rubber feet)	Sales unit
● TL-45BB	Black	Black	1 set
○ TL-45SG	Light gray	Gray	1 set
● TL-45DG	Dark gray	Gray	1 set

■ EPDM (black) may have its color migrate onto the placement surface.

MS SERIES INSTALLATION AREA



CBF-1G CABLE HOOK



- Used for wrapping and securing cords and wires.
- Can be used with a variety of different enclosure series and models.
- Requires a panel thickness of between 1.0 ~ 3.0mm.

Product no. / Details

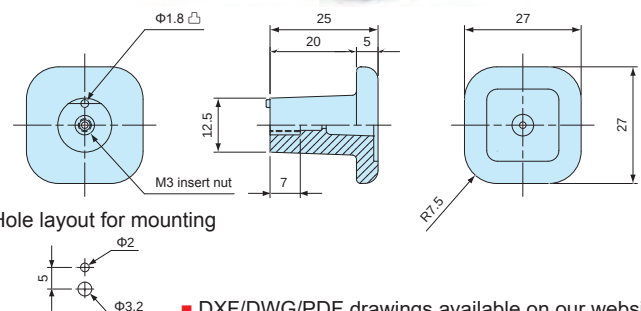
Product no.	Material	Color	Pack of
CBF-1G	ABS UL94HB	Gray	4

■ Included screws: M3-8 trivalent chromate (with washer) x 4 pcs



CBF dimensions

APPLICATION EXAMPLE



■ DXF/DWG/PDF drawings available on our website.



- Simple designed box with 10° angle of inclination for operational ease.
- Both the Slide or Screwed panel side can be utilized as a front panel.
- Rubber feet can be attached in any position based on your design requirements.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Side plate	2	ABS UL94V-0	Black • Gray
2	Front frame	1	Extruded aluminium A6063S-T5	Black • Silver / Anodized with clear coating
3	Rear frame	1	Extruded aluminium A6063S-T5	Black • Silver / Anodized with clear coating
4	Slide panel	1	Aluminium A1100P t=1.5	Black / Painted • Silver / Anodized
5	Screwed panel	1	Aluminium A1100P t=1.5	Black / Painted • Silver / Anodized
6	Screw	12	Steel	Black trivalent chromate • Nickel plated
7	Rubber feet	4	Rubber	Black

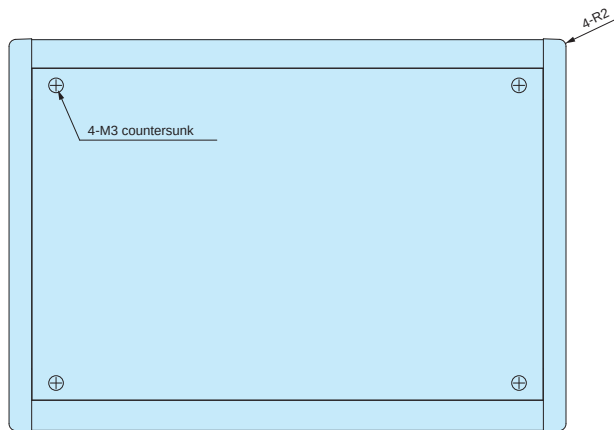
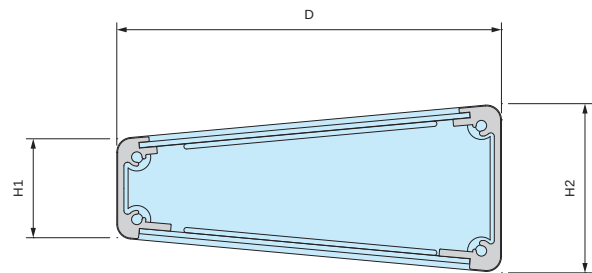
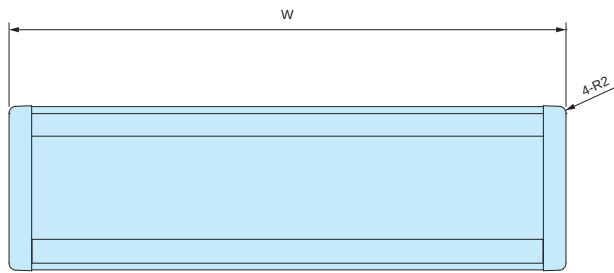
■ Please peel off the protection sheet cover on both panels before application.

- Low-cost digital printed overlay customization is available with a short lead time.
Refer to page Custom 11 ~ 12 for more details.



CF dimensions

■ Drawings below are reference examples only.
DXF/DWG/PDF/STP drawings available on our website.



Included screws

CF□- 11 models

M3-5 slotted raised countersunk - Black trivalent chromate x 4 pcs

M3-5 slotted raised countersunk - Nickel plated x 4 pcs

M3-10 countersunk - Black trivalent chromate x 8 pcs

CF□- 18, CF□- 23, and CF□- 28 models

M3-5 slotted raised countersunk - Black trivalent chromate x 4 pcs

M3-5 slotted raised countersunk - Nickel plated x 4 pcs

M4-12 countersunk - Black trivalent chromate x 8 pcs

Product no. / Details

Product no.		W	H1	H2	D	Weight (kg)
● Black	● Gray/Silver					
CF 7-11BB	CF 7-11GS	70	28.4	48.6	110.5	0.15
CF11-11BB	CF11-11GS	110	28.4	48.6	110.5	0.21
CF16-11BB	CF16-11GS	160	28.4	48.6	110.5	0.29
CF22-11BB	CF22-11GS	220	28.4	48.6	110.5	0.38
CF28-11BB	CF28-11GS	280	28.4	48.6	110.5	0.47
CF12-18BB	CF12-18GS	120	32.4	66.7	180.5	0.38
CF18-18BB	CF18-18GS	180	32.4	66.7	180.5	0.53
CF27-18BB	CF27-18GS	270	32.4	66.7	180.5	0.76
CF35-18BB	CF35-18GS	350	32.4	66.7	180.5	0.97
CF43-18BB	CF43-18GS	430	32.4	66.7	180.5	1.17
CF15-23BB	CF15-23GS	150	39.8	80	230	0.52
CF21-23BB	CF21-23GS	210	39.8	80	230	0.7
CF27-23BB	CF27-23GS	270	39.8	80	230	0.88
CF36-23BB	CF36-23GS	360	39.8	80	230	1.14
CF45-23BB	CF45-23GS	450	39.8	80	230	1.41
CF21-28BB	CF21-28GS	210	50	99	280	0.93
CF28-28BB	CF28-28GS	280	50	99	280	1.17
CF36-28BB	CF36-28GS	360	50	99	280	1.46
CF45-28BB	CF45-28GS	450	50	99	280	1.77

*H1, H2 dimensions are intersection-to-intersection on the drawing.
Refer to the CAD file or actual product for detailed dimensions.

EXH • EXHE • EXHF • EXHFE series

HEAT-SINK ALUMINIUM ENCLOSURE

EXH • EXHE • EXHF • EXHFE series are aluminium enclosures with a highly efficient heat-sink top cover. Suitable to be used as fanless PC, power amplifier, and power supply box where heat dissipation is required. Wide range of 64 different sizes available with EMC shielded and flanged models.



Waved surface heat-sink fins for maximum cooling performance!

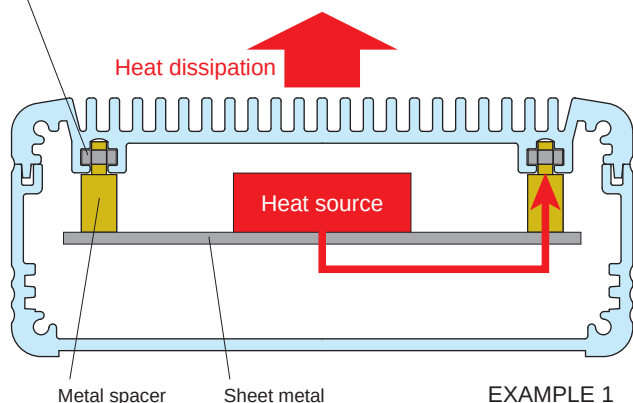
- Each heat-sink fin has a waved surface construction for maximum cooling performance.

Waved Surface

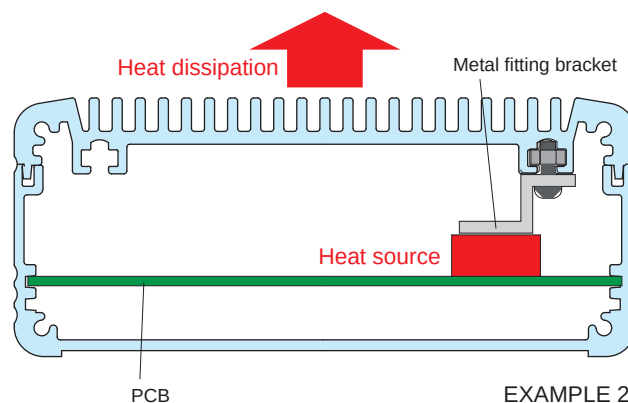


HEAT DISSIPATION EXAMPLE

- EXH series has grooves to put M3 nuts inside its heat-sink cover. It is possible to construct a heat conduction route from your heat source to heat-sink cover easily for better heat dissipation performance.



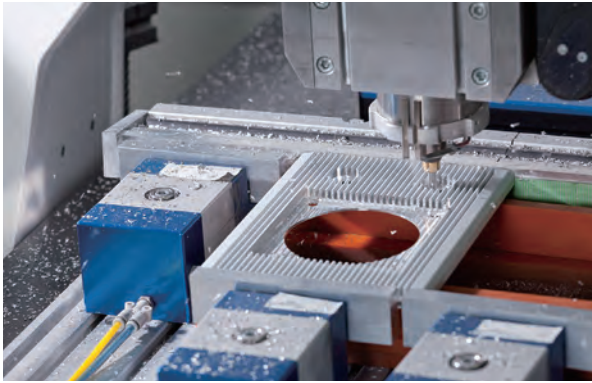
EXAMPLE 1



EXAMPLE 2

CUSTOMIZATION EXAMPLE

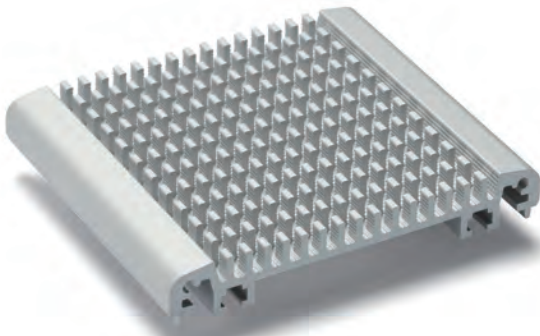
CNC Machining on Heat-sink Cover



Heat-sink plates can be customized with our high speed CNC machines.



Pin Shaped Fin Customization



Pin shaped heat-sink fin can be customized for better cooling performance.

Color Anodization

Various colors, such as blue, red, orange, green or purple can be anodized as per your requirements.



■ Not all colors and shades of colors are possible.

Custom Length Available



APPLICATION EXAMPLE

Stabilized Diode Laser

Controller



Laser Head



IoT Gateway



UPS Battery Monitoring System



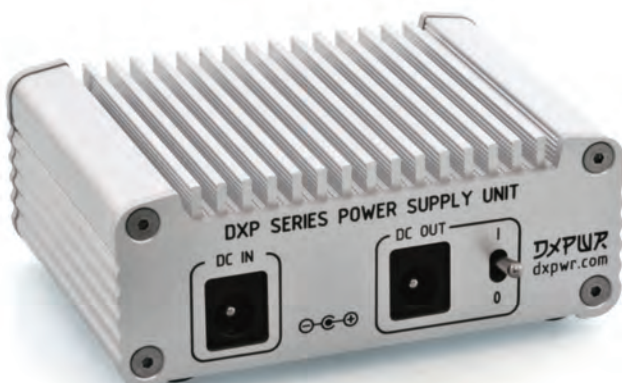
All-in-one Edge Node

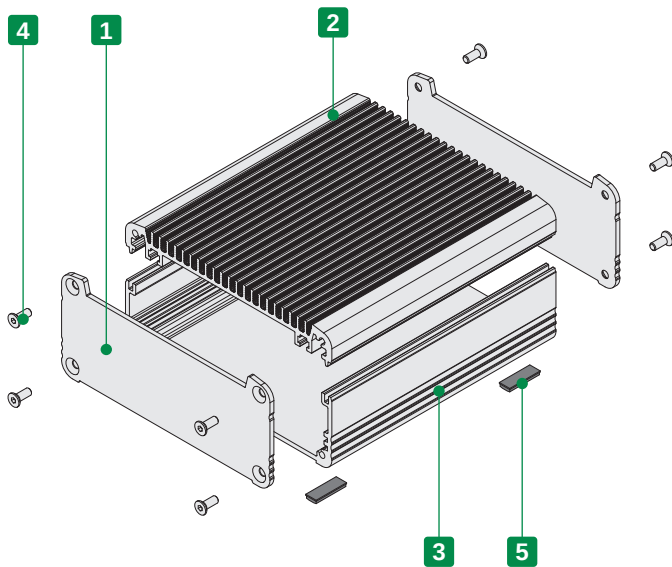


4 Channel Power Switching Edge Node

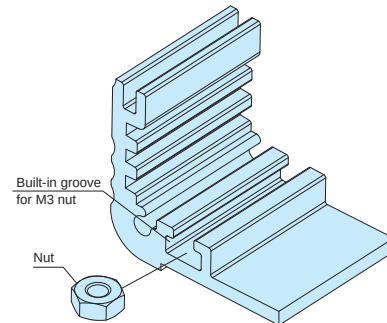


Ultra Low Noise Regulation Power Supply





- Aluminum enclosure equipped with a highly efficient heat-sink top cover.
- Suitable to be used as a fanless PC, power amplifier, power supply etc. where heat dissipation is required.
- Selectable in 64 different sizes and 2 different color combinations.
- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.



Components

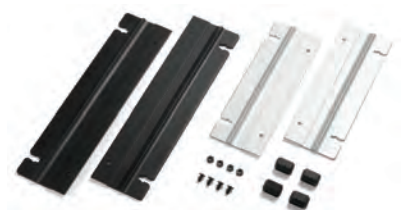
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside) : Black / Anodized
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
4	Screw (Hexagonal)	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ Rubber feet material : Polyurethane : EXH8-□ ~ 19-□ models • Synthetic rubber : EXH23-□ ~ 29-□ models.

Accessories (Optional parts)

Color Type

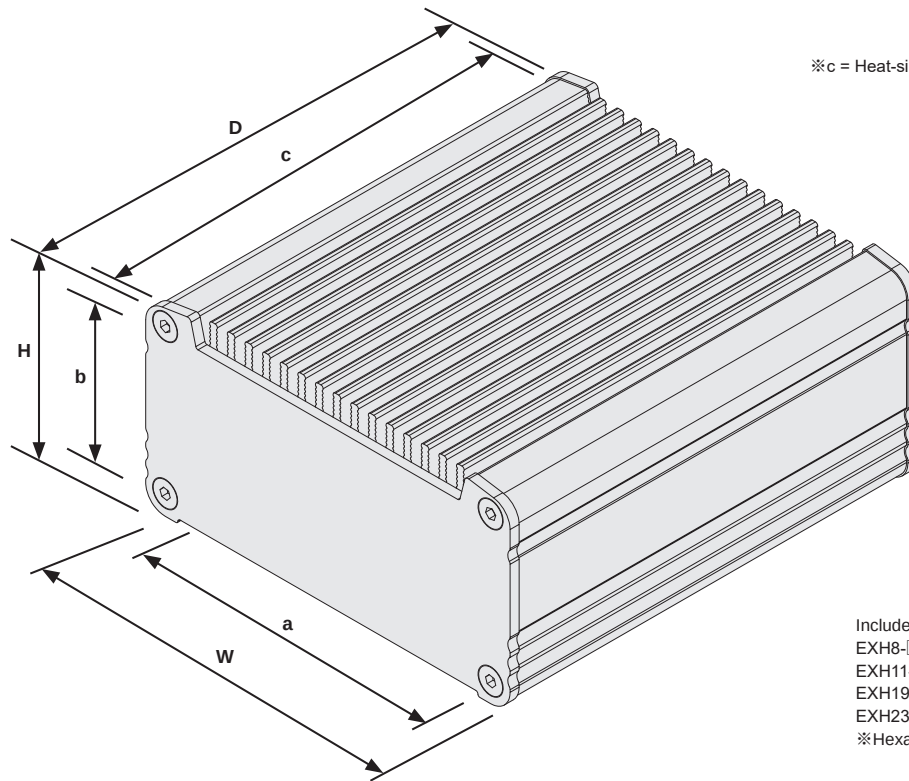
Code	S S Silver / Silver	B B Black / Black
Color		



Wall mounting bracket
EF series
See Page 240

EXH dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws
 EXH8-□ models : M2.5-8 x 8 pcs
 EXH11-□, 14-□ models : M3-8 x 8 pcs
 EXH19-□ models : M4-10 x 8 pcs
 EXH23-□, 29-□ models : M5-10 x 8 pcs
 ※ Hexagonal wrench included

Product no. / Details

■ Please suffix color code at the end of the product number.

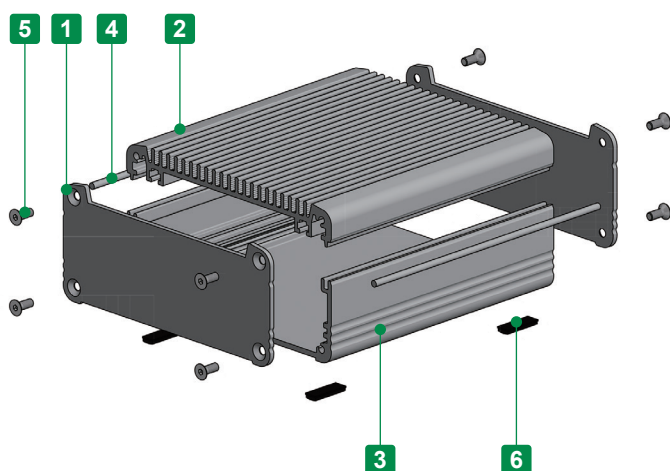
Product no.	External dimensions			Internal dimensions			※ Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXH 8-3- 6□□	80.6	30.7	60	66	15	56	7.32
EXH 8-3- 9□□	80.6	30.7	90	66	15	86	5.65
EXH 8-3-12□□	80.6	30.7	120	66	15	116	4.72
EXH 8-4- 6□□	80.6	40.7	60	66	25	56	7.32
EXH 8-4- 9□□	80.6	40.7	90	66	25	86	5.65
EXH 8-4-12□□	80.6	40.7	120	66	25	116	4.72
EXH 8-6- 6□□	80.6	55.7	60	66	40	56	7.32
EXH 8-6- 9□□	80.6	55.7	90	66	40	86	5.65
EXH 8-6-12□□	80.6	55.7	120	66	40	116	4.72
EXH11-3- 8□□	106	31.1	78	88.5	14	74	4.82
EXH11-3-12□□	106	31.1	118	88.5	14	114	3.72
EXH11-3-16□□	106	31.1	164	88.5	14	160	3.03
EXH11-5- 8□□	106	46.1	78	88.5	29	74	4.82
EXH11-5-12□□	106	46.1	118	88.5	29	114	3.72
EXH11-5-16□□	106	46.1	164	88.5	29	160	3.03
EXH11-6- 8□□	106	61.1	78	88.5	44	74	4.82
EXH11-6-12□□	106	61.1	118	88.5	44	114	3.72
EXH11-6-16□□	106	61.1	164	88.5	44	160	3.03
EXH14-4-10□□	141	36.1	97	101.8	24.3	93	3.4
EXH14-4-14□□	141	36.1	137	101.8	24.3	133	2.75
EXH14-4-19□□	141	36.1	187	101.8	24.3	183	2.27
EXH14-5-10□□	141	51.1	97	101.8	39.3	93	3.4
EXH14-5-14□□	141	51.1	137	101.8	39.3	133	2.75
EXH14-5-19□□	141	51.1	187	101.8	39.3	183	2.27
EXH14-7-10□□	141	71.1	97	101.8	59.3	93	3.4
EXH14-7-14□□	141	71.1	137	101.8	59.3	133	2.75
EXH14-7-19□□	141	71.1	187	101.8	59.3	183	2.27
EXH14-9-10□□	141	91.1	97	101.8	79.3	93	3.4
EXH14-9-14□□	141	91.1	137	101.8	79.3	133	2.75
EXH14-9-19□□	141	91.1	187	101.8	79.3	183	2.27

※ Thermal resistance test condition

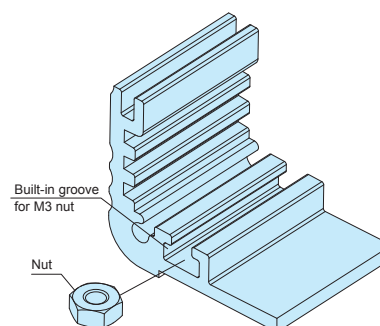
- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

Product no.	External dimensions			Internal dimensions			※ Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXH19- 4-13□□	186.5	43.5	125	131	26.8	120	1.92
EXH19- 4-18□□	186.5	43.5	177	131	26.8	172	1.56
EXH19- 4-23□□	186.5	43.5	230	131	26.8	225	1.32
EXH19- 4-29□□	186.5	43.5	285	131	26.8	280	1.15
EXH19- 6-13□□	186.5	61.5	125	131	44.8	120	1.92
EXH19- 6-18□□	186.5	61.5	177	131	44.8	172	1.56
EXH19- 6-23□□	186.5	61.5	230	131	44.8	225	1.32
EXH19- 6-29□□	186.5	61.5	285	131	44.8	280	1.15
EXH19- 8-13□□	186.5	81.5	125	131	64.8	120	1.92
EXH19- 8-18□□	186.5	81.5	177	131	64.8	172	1.56
EXH19- 8-23□□	186.5	81.5	230	131	64.8	225	1.32
EXH19- 8-29□□	186.5	81.5	285	131	64.8	280	1.15
EXH19-11-13□□	186.5	106.5	125	131	89.8	120	1.92
EXH19-11-18□□	186.5	106.5	177	131	89.8	172	1.56
EXH19-11-23□□	186.5	106.5	230	131	89.8	225	1.32
EXH19-11-29□□	186.5	106.5	285	131	89.8	280	1.15
EXH23- 5-15□□	232	52	153	176	34.8	147	1.47
EXH23- 5-21□□	232	52	213	176	34.8	207	1.2
EXH23- 5-27□□	232	52	273	176	34.8	267	1.03
EXH23- 5-33□□	232	52	333	176	34.8	327	0.91
EXH23- 8-15□□	232	77	153	176	59.8	147	1.47
EXH23- 8-21□□	232	77	213	176	59.8	207	1.2
EXH23- 8-27□□	232	77	273	176	59.8	267	1.03
EXH23- 8-33□□	232	77	333	176	59.8	327	0.91
EXH23-10-15□□	232	102	153	176	84.8	147	1.47
EXH23-10-21□□	232	102	213	176	84.8	207	1.2
EXH23-10-27□□	232	102	273	176	84.8	267	1.03
EXH23-10-33□□	232	102	333	176	84.8	327	0.91
EXH29- 8-23□□	287.5	77.5	234	230	59.5	228	0.97
EXH29- 8-30□□	287.5	77.5	304	230	59.5	298	0.82
EXH29- 8-38□□	287.5	77.5	384	230	59.5	378	0.71
EXH29-13-23□□	287.5	127.5	234	230	109.5	228	0.97
EXH29-13-30□□	287.5	127.5	304	230	109.5	298	0.82
EXH29-13-38□□	287.5	127.5	384	230	109.5	378	0.71

■ Custom length is available.



- EMC shielding is achieved by having the unfinished inner sides of the heat-sink top cover, bottom frame and panels, as well as the shielding gasket in contact with one another.
- Aluminum enclosure equipped with a highly efficient heat-sink top cover.
- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.

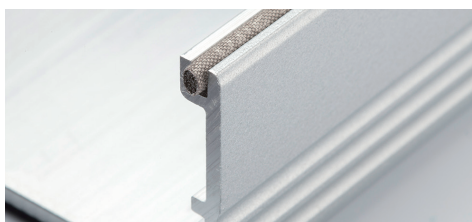
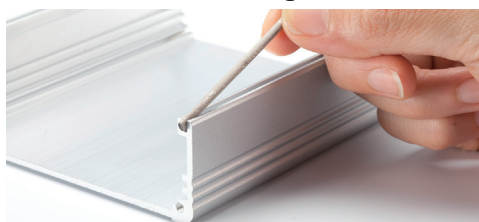


Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside)
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
5	Screw (Hexagonal)	8	Stainless steel	Unfinished
6	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ Rubber feet material : Polyurethane : EXHE8-□ ~ 19-□ models • Synthetic rubber : EXHE23-□ ~ 29-□ models.

How to install shield gaskets



- Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.
- Ensure that a small portion of the fabric-over-foam gaskets protrude out in order to maintain connections with the end panels.

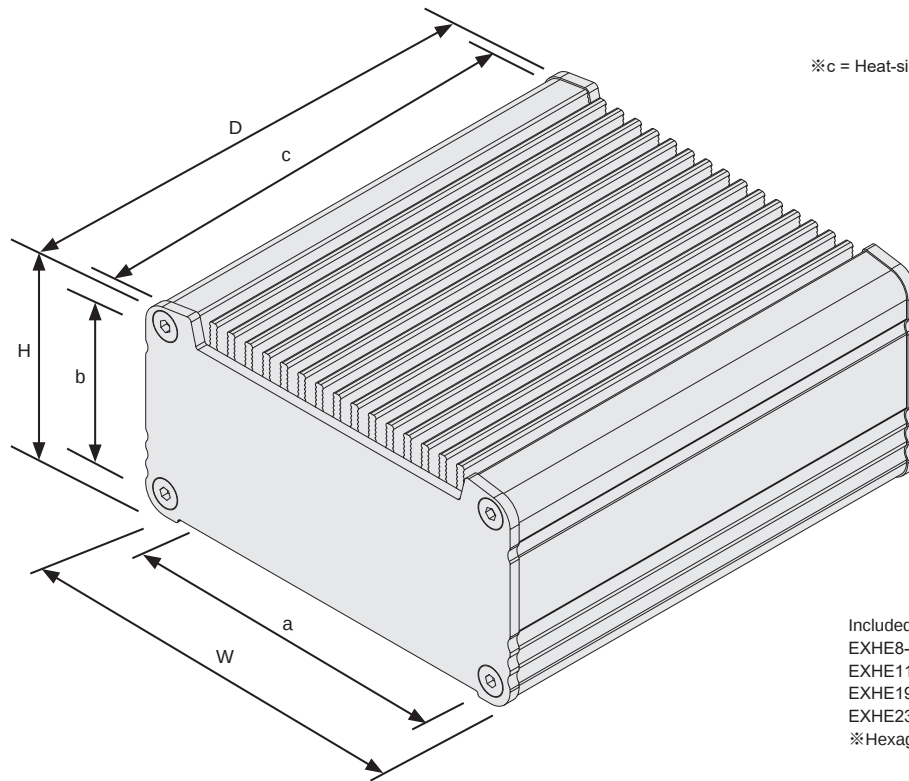
Accessories (Optional parts)



Wall mounting bracket
EF series
See Page 240

EXHE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws
 EXHE8-□ models : M2.5-8 x 8 pcs
 EXHE11-□, 14-□ models : M3-8 x 8 pcs
 EXHE19-□ models : M4-10 x 8 pcs
 EXHE23-□, 29-□ models : M5-10 x 8 pcs
 ※Hexagonal wrench included

Product no. / Details

Product no.	External dimensions			Internal dimensions			※ Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHE 8-3- 6SS	80.6	30.7	60	66	15	56	7.32
EXHE 8-3- 9SS	80.6	30.7	90	66	15	86	5.65
EXHE 8-3-12SS	80.6	30.7	120	66	15	116	4.72
EXHE 8-4- 6SS	80.6	40.7	60	66	25	56	7.32
EXHE 8-4- 9SS	80.6	40.7	90	66	25	86	5.65
EXHE 8-4-12SS	80.6	40.7	120	66	25	116	4.72
EXHE 8-6- 6SS	80.6	55.7	60	66	40	56	7.32
EXHE 8-6- 9SS	80.6	55.7	90	66	40	86	5.65
EXHE 8-6-12SS	80.6	55.7	120	66	40	116	4.72
EXHE11-3- 8SS	106	31.1	78	88.5	14	74	4.82
EXHE11-3-12SS	106	31.1	118	88.5	14	114	3.72
EXHE11-3-16SS	106	31.1	164	88.5	14	160	3.03
EXHE11-5- 8SS	106	46.1	78	88.5	29	74	4.82
EXHE11-5-12SS	106	46.1	118	88.5	29	114	3.72
EXHE11-5-16SS	106	46.1	164	88.5	29	160	3.03
EXHE11-6- 8SS	106	61.1	78	88.5	44	74	4.82
EXHE11-6-12SS	106	61.1	118	88.5	44	114	3.72
EXHE11-6-16SS	106	61.1	164	88.5	44	160	3.03
EXHE14-4-10SS	141	36.1	97	101.8	24.3	93	3.4
EXHE14-4-14SS	141	36.1	137	101.8	24.3	133	2.75
EXHE14-4-19SS	141	36.1	187	101.8	24.3	183	2.27
EXHE14-5-10SS	141	51.1	97	101.8	39.3	93	3.4
EXHE14-5-14SS	141	51.1	137	101.8	39.3	133	2.75
EXHE14-5-19SS	141	51.1	187	101.8	39.3	183	2.27
EXHE14-7-10SS	141	71.1	97	101.8	59.3	93	3.4
EXHE14-7-14SS	141	71.1	137	101.8	59.3	133	2.75
EXHE14-7-19SS	141	71.1	187	101.8	59.3	183	2.27
EXHE14-9-10SS	141	91.1	97	101.8	79.3	93	3.4
EXHE14-9-14SS	141	91.1	137	101.8	79.3	133	2.75
EXHE14-9-19SS	141	91.1	187	101.8	79.3	183	2.27
EXHE19- 4-13SS	186.5	43.5	125	131	26.8	120	1.92
EXHE19- 4-18SS	186.5	43.5	177	131	26.8	172	1.56
EXHE19- 4-23SS	186.5	43.5	230	131	26.8	225	1.32
EXHE19- 4-29SS	186.5	43.5	285	131	26.8	280	1.15
EXHE19- 6-13SS	186.5	61.5	125	131	44.8	120	1.92
EXHE19- 6-18SS	186.5	61.5	177	131	44.8	172	1.56
EXHE19- 6-23SS	186.5	61.5	230	131	44.8	225	1.32
EXHE19- 6-29SS	186.5	61.5	285	131	44.8	280	1.15
EXHE19- 8-13SS	186.5	81.5	125	131	64.8	120	1.92
EXHE19- 8-18SS	186.5	81.5	177	131	64.8	172	1.56
EXHE19- 8-23SS	186.5	81.5	230	131	64.8	225	1.32
EXHE19- 8-29SS	186.5	81.5	285	131	64.8	280	1.15
EXHE19-11-13SS	186.5	106.5	125	131	89.8	120	1.92
EXHE19-11-18SS	186.5	106.5	177	131	89.8	172	1.56
EXHE19-11-23SS	186.5	106.5	230	131	89.8	225	1.32
EXHE19-11-29SS	186.5	106.5	285	131	89.8	280	1.15
EXHE23- 5-15SS	232	52	153	176	34.8	147	1.47
EXHE23- 5-21SS	232	52	213	176	34.8	207	1.2
EXHE23- 5-27SS	232	52	273	176	34.8	267	1.03
EXHE23- 5-33SS	232	52	333	176	34.8	327	0.91
EXHE23- 8-15SS	232	77	153	176	59.8	147	1.47
EXHE23- 8-21SS	232	77	213	176	59.8	207	1.2
EXHE23- 8-27SS	232	77	273	176	59.8	267	1.03
EXHE23- 8-33SS	232	77	333	176	59.8	327	0.91
EXHE23-10-15SS	232	102	153	176	84.8	147	1.47
EXHE23-10-21SS	232	102	213	176	84.8	207	1.2
EXHE23-10-27SS	232	102	273	176	84.8	267	1.03
EXHE23-10-33SS	232	102	333	176	84.8	327	0.91
EXHE29- 8-23SS	287.5	77.5	234	230	59.5	228	0.97
EXHE29- 8-30SS	287.5	77.5	304	230	59.5	298	0.82
EXHE29- 8-38SS	287.5	77.5	384	230	59.5	378	0.71
EXHE29-13-23SS	287.5	127.5	234	230	109.5	228	0.97
EXHE29-13-30SS	287.5	127.5	304	230	109.5	298	0.82
EXHE29-13-38SS	287.5	127.5	384	230	109.5	378	0.71

※ Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

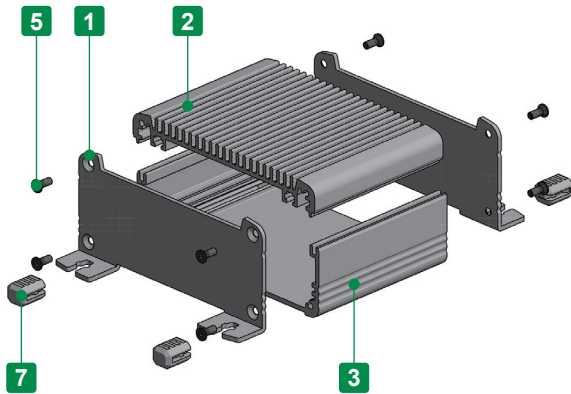
EXHF series

FLANGED HEAT-SINK ALUMINIUM ENCLOSURE

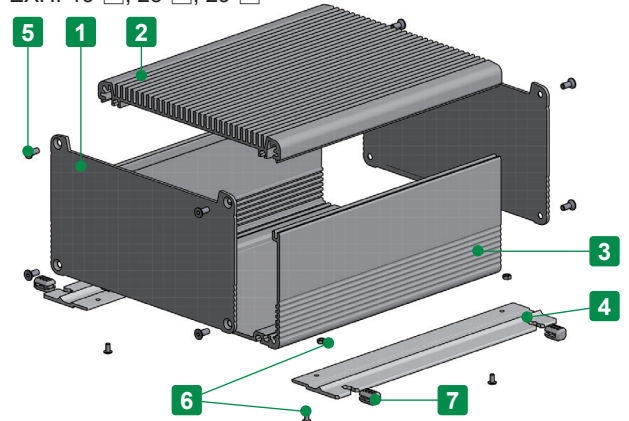


- Equipped with flanged bracket for easy wall mounting.
- Aluminum enclosure equipped with a highly efficient heat-sink top cover.

EXHF8-□, 11-□, 14-□



EXHF19-□, 23-□, 29-□



Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged panel (EXHF8-□, 11-□, 14-□) Panel (EXHF19-□, 23-□, 29-□)	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside) : Black / Anodized
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
4	Flange bracket	2	Extruded aluminium A6063S-T5	Metallic silver / Painted • Black / Anodized
5	Panel screw (Hexagonal)	8	Stainless steel	Unfinished
6	Flange screw & nut	4 each	Steel	Black trivalent chromate
7	Rubber feet	4	Silicone	Black

Color Type

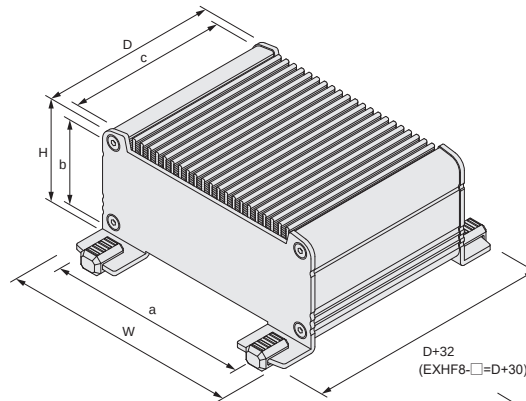
Code	S Silver / Silver	B Black / Black
Color		

Included screws
EXHF8-□ models : M2.5-8 x 8 pcs
EXHF11-□, 14-□ models : M3-8 x 8 pcs
EXHF19-□ models : M4-10 x 8 pcs
EXHF23-□, 29-□ models : M5-10 x 8 pcs
※Hexagonal wrench included

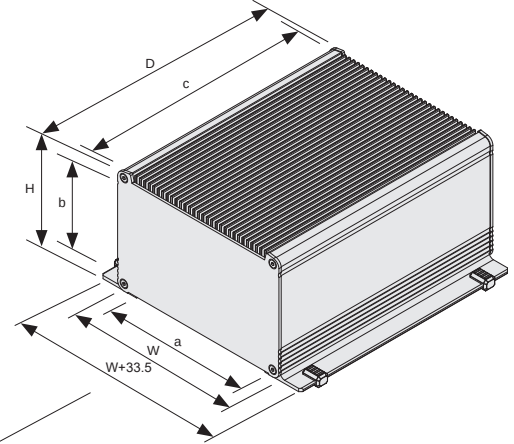
EXHF dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

EXHF8-□, 11-□, 14-□



EXHF19-□, 23-□, 29-□



※c = Heat-sink top cover / Bottom frame length.

*Rubber feet dimensions are not included.

Product no. / Details

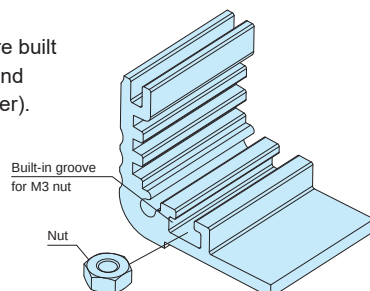
■ Please suffix color code at the end of the product number.

Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHF 8-3- 6□□	80.6	32.8	60	66	15	56	7.32
EXHF 8-3- 9□□	80.6	32.8	90	66	15	86	5.65
EXHF 8-3-12□□	80.6	32.8	120	66	15	116	4.72
EXHF 8-4- 6□□	80.6	42.8	60	66	25	56	7.32
EXHF 8-4- 9□□	80.6	42.8	90	66	25	86	5.65
EXHF 8-4-12□□	80.6	42.8	120	66	25	116	4.72
EXHF 8-6- 6□□	80.6	57.8	60	66	40	56	7.32
EXHF 8-6- 9□□	80.6	57.8	90	66	40	86	5.65
EXHF 8-6-12□□	80.6	57.8	120	66	40	116	4.72
EXHF11-3- 8□□	106	33.1	78	88.5	14	74	4.82
EXHF11-3-12□□	106	33.1	118	88.5	14	114	3.72
EXHF11-3-16□□	106	33.1	164	88.5	14	160	3.03
EXHF11-5- 8□□	106	48.1	78	88.5	29	74	4.82
EXHF11-5-12□□	106	48.1	118	88.5	29	114	3.72
EXHF11-5-16□□	106	48.1	164	88.5	29	160	3.03
EXHF11-6- 8□□	106	63.1	78	88.5	44	74	4.82
EXHF11-6-12□□	106	63.1	118	88.5	44	114	3.72
EXHF11-6-16□□	106	63.1	164	88.5	44	160	3.03
EXHF14-4-10□□	141	38.1	97	101.8	24.3	93	3.4
EXHF14-4-14□□	141	38.1	137	101.8	24.3	133	2.75
EXHF14-4-19□□	141	38.1	187	101.8	24.3	183	2.27
EXHF14-5-10□□	141	53.1	97	101.8	39.3	93	3.4
EXHF14-5-14□□	141	53.1	137	101.8	39.3	133	2.75
EXHF14-5-19□□	141	53.1	187	101.8	39.3	183	2.27
EXHF14-7-10□□	141	73.1	97	101.8	59.3	93	3.4
EXHF14-7-14□□	141	73.1	137	101.8	59.3	133	2.75
EXHF14-7-19□□	141	73.1	187	101.8	59.3	183	2.27
EXHF14-9-10□□	141	93.1	97	101.8	79.3	93	3.4
EXHF14-9-14□□	141	93.1	137	101.8	79.3	133	2.75
EXHF14-9-19□□	141	93.1	187	101.8	79.3	183	2.27

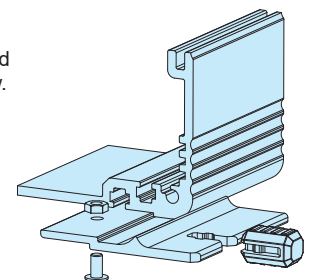
※Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.



- Flange bracket is installed as per the diagram below.

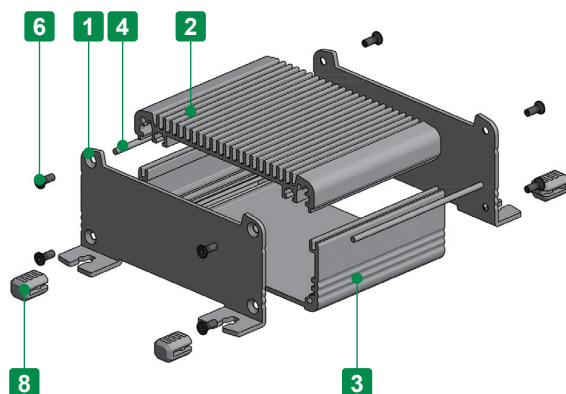


■ Custom length is available.

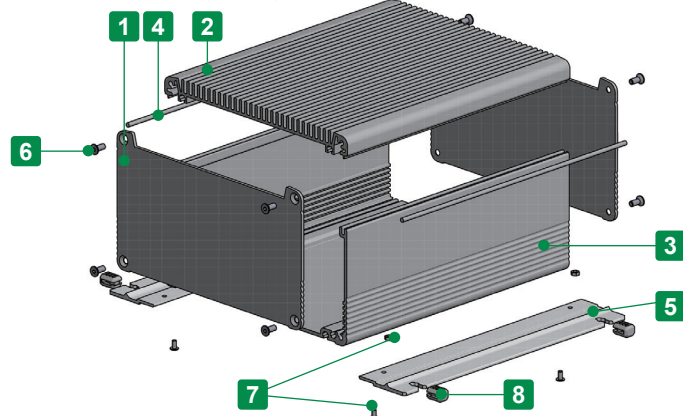
EXHFE series**FLANGED HEAT-SINK ALUMINIUM EMC SHIELDED ENCLOSURE**

- EMC shielding is achieved by having the unfinished internal parts of the enclosure, as well as the fabric-over-foam gasket, in contact with one another.
- Aluminium enclosure equipped with a highly efficient heat-sink top cover.
- Equipped with flanged bracket for easy wall mounting.

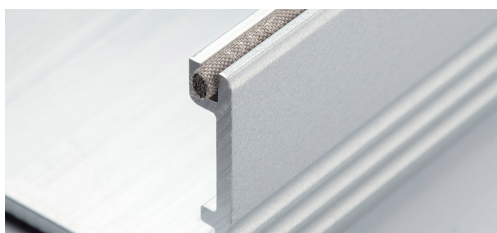
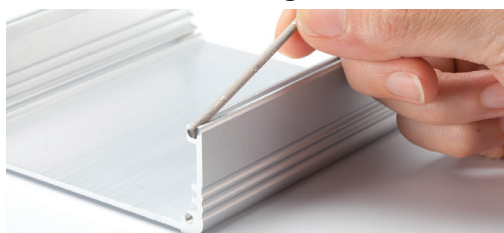
EXHFE8-□, 11-□, 14-□



EXHFE19-□, 23-□, 29-□

**Components**

No.	Part name	Pcs	Material	Color / Finish
1	Flanged panel (EXHFE8-□, 11-□, 14-□) Panel (EXHFE19-□, 23-□, 29-□)	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside)
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
5	Flange bracket	2	Extruded aluminium A6063S-T5	Metallic silver / Painted
6	Panel screw (Hexagonal)	8	Stainless steel	Unfinished
7	Flange screw & nut	4 each	Steel	Black trivalent chromate
8	Rubber feet	4	Silicone	Black

How to install shield gaskets

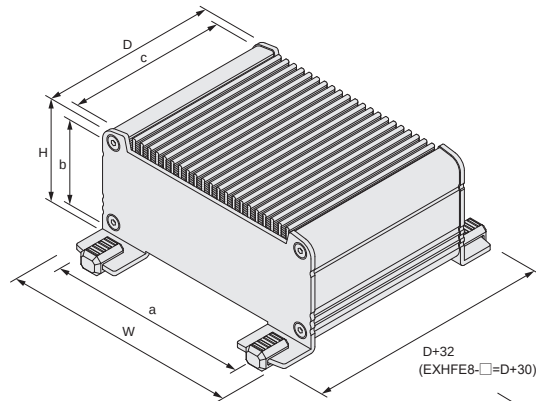
- Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.
- Ensure that a small portion of the fabric-over-foam gaskets protrude out in order to maintain connections with the end panels.

Included screws
 EXHFE8-□ models : M2.5-8 x 8 pcs
 EXHFE11-□, 14-□ models : M3-8 x 8 pcs
 EXHFE19-□ models : M4-10 x 8 pcs
 EXHFE23-□, 29-□ models : M5-10 x 8 pcs
 ※ Hexagonal wrench included

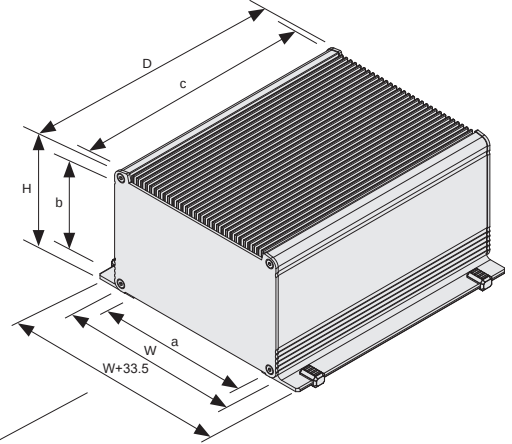
EXHFE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

EXHFE8-□, 11-□, 14-□



EXHFE19-□, 23-□, 29-□



※c = Heat-sink top cover / Bottom frame length.

*Rubber feet dimensions are not included.

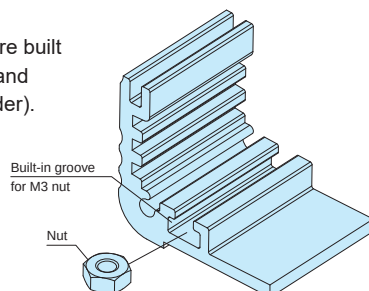
Product no. / Details

Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHFE 8-3- 6SS	80.6	32.8	60	66	15	56	7.32
EXHFE 8-3- 9SS	80.6	32.8	90	66	15	86	5.65
EXHFE 8-3-12SS	80.6	32.8	120	66	15	116	4.72
EXHFE 8-4- 6SS	80.6	42.8	60	66	25	56	7.32
EXHFE 8-4- 9SS	80.6	42.8	90	66	25	86	5.65
EXHFE 8-4-12SS	80.6	42.8	120	66	25	116	4.72
EXHFE 8-6- 6SS	80.6	57.8	60	66	40	56	7.32
EXHFE 8-6- 9SS	80.6	57.8	90	66	40	86	5.65
EXHFE 8-6-12SS	80.6	57.8	120	66	40	116	4.72
EXHFE11-3- 8SS	106	33.1	78	88.5	14	74	4.82
EXHFE11-3-12SS	106	33.1	118	88.5	14	114	3.72
EXHFE11-3-16SS	106	33.1	164	88.5	14	160	3.03
EXHFE11-5- 8SS	106	48.1	78	88.5	29	74	4.82
EXHFE11-5-12SS	106	48.1	118	88.5	29	114	3.72
EXHFE11-5-16SS	106	48.1	164	88.5	29	160	3.03
EXHFE11-6- 8SS	106	63.1	78	88.5	44	74	4.82
EXHFE11-6-12SS	106	63.1	118	88.5	44	114	3.72
EXHFE11-6-16SS	106	63.1	164	88.5	44	160	3.03
EXHFE14-4-10SS	141	38.1	97	101.8	24.3	93	3.4
EXHFE14-4-14SS	141	38.1	137	101.8	24.3	133	2.75
EXHFE14-4-19SS	141	38.1	187	101.8	24.3	183	2.27
EXHFE14-5-10SS	141	53.1	97	101.8	39.3	93	3.4
EXHFE14-5-14SS	141	53.1	137	101.8	39.3	133	2.75
EXHFE14-5-19SS	141	53.1	187	101.8	39.3	183	2.27
EXHFE14-7-10SS	141	73.1	97	101.8	59.3	93	3.4
EXHFE14-7-14SS	141	73.1	137	101.8	59.3	133	2.75
EXHFE14-7-19SS	141	73.1	187	101.8	59.3	183	2.27
EXHFE14-9-10SS	141	93.1	97	101.8	79.3	93	3.4
EXHFE14-9-14SS	141	93.1	137	101.8	79.3	133	2.75
EXHFE14-9-19SS	141	93.1	187	101.8	79.3	183	2.27

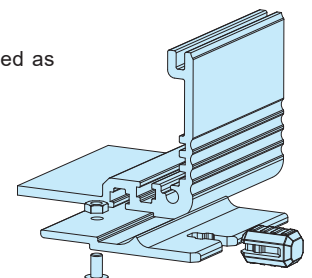
※ Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.



- Flange bracket is installed as per the diagram below.



AWA series HEAT-SINK ALUMINIUM ENCLOSURE

AWA series is an aluminium enclosure that has a frame with heat-sink fins on both sides.

Furthermore, the enclosure is also conductive, which provides a shielding effect.

By machining the panels, the unit becomes extremely suitable to be used as high-end audio, or as an industrial equipment.

APPLICATION EXAMPLE

Industrial IoT Interface Device



Industrial Fanless PC



Audio Amplifier

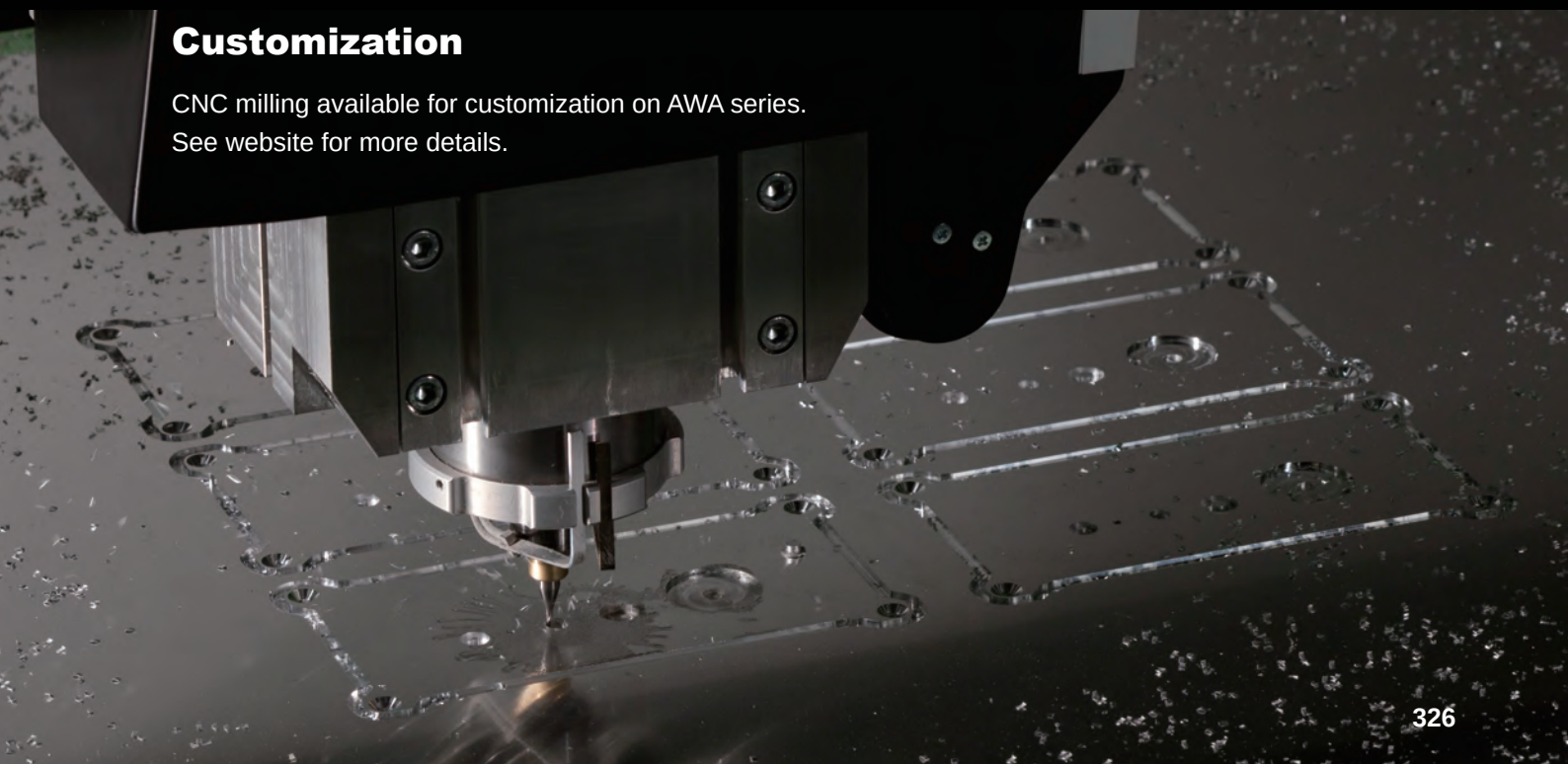


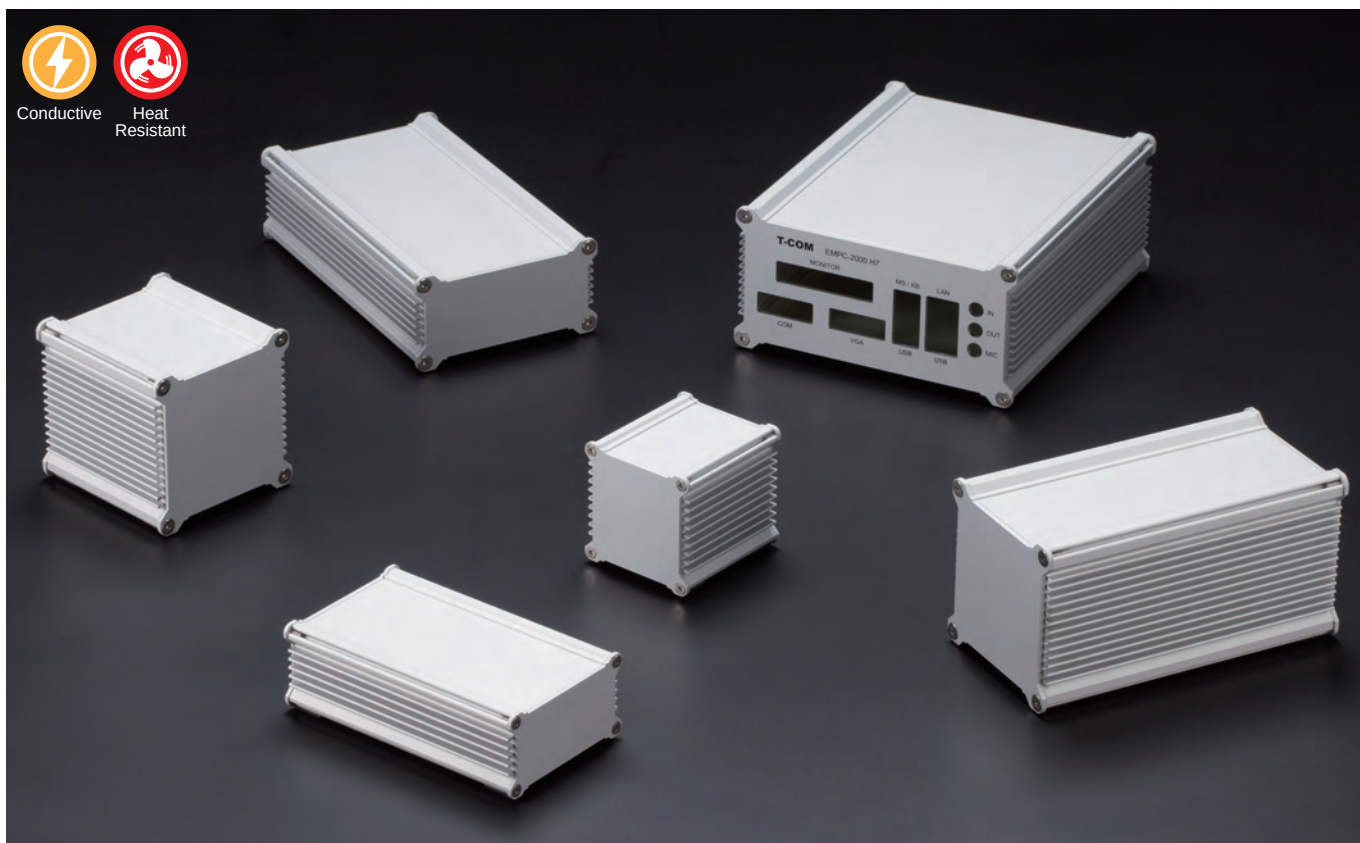
Wide-Band Solid State Optical Amplifier



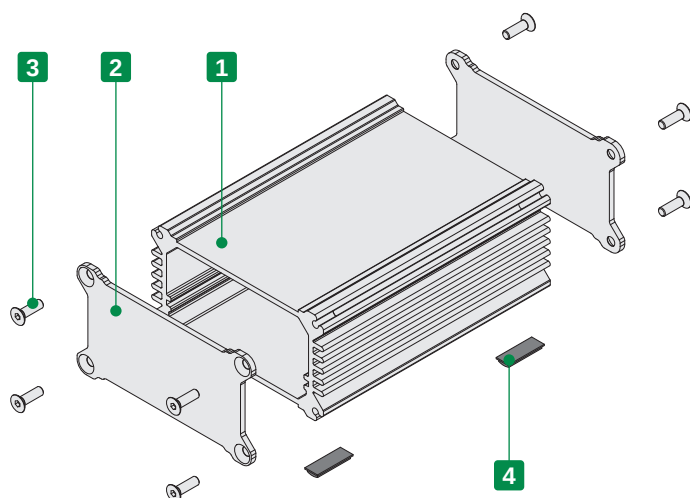
Customization

CNC milling available for customization on AWA series.
See website for more details.





- Extruded aluminium frame manufactured with heat-sink sides.
- Silver anodized end panels make for a luxurious finish.
- Conductivity is achieved by utilizing the contact between the unfinished end panel sides and the unfinished ends of the frame.
- PCB or chassis can be horizontally mounted by sliding into an inner-grooved body frame.
- Suitable for industrial fanless PC, measuring instrument, digital audio amplifier and more.
- Custom length is available.



Included screws :
 AWA5-3, 6-6, 8-4 models : Hex flat head M3-8 x 8 pcs
 AWA8-8, 10-5, 12-7, 15-8 models : Hex flat head M4-10 x 8 pcs
 AWA20-8 models : Hex flat head M5-10 x 8 pcs
 ※Hexagonal wrench included

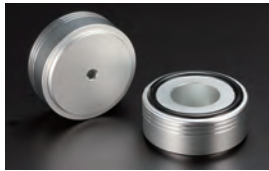
Component

No.	Part name	Pcs	Material	Color / Finish
1	Body frame	1	Extruded aluminium A6063S-T5	Silver / Anodized with clear coating
2	End panel	2	Aluminium A1050P	Silver / Anodized (Unfinished inside)
3	Hex socket screw	8	Stainless steel	Unfinished
4	Rubber feet	4	Polyurethane	Black

Accessories (Optional parts)



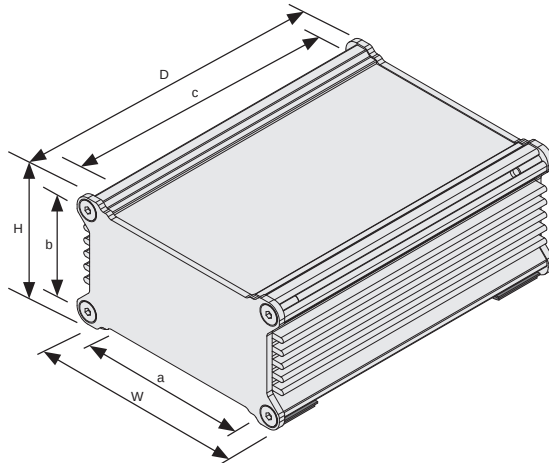
Mounting plate AWC series
See page 166



Aluminium isolation feet AFS • AFM series
See page 333

AWA dimensions

※c = Body frame length.



■ DXF/DWG/PDF/STP drawings available on our website.

※ Thermal resistance test condition

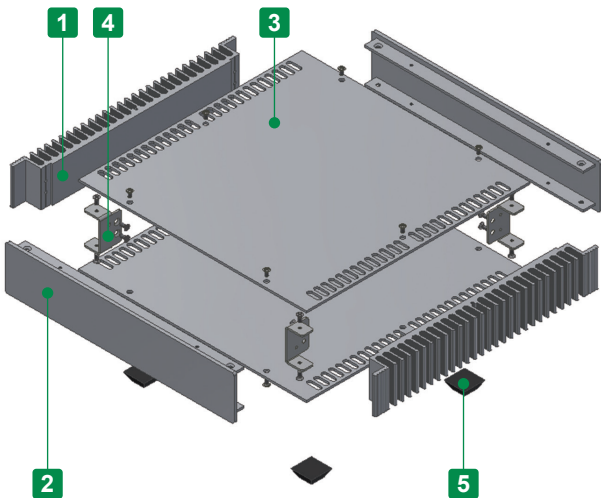
- Ambient air cooling
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Anodized aluminium extrusion
- Heat source is applied on the opposite side (inner side) of the fins.

Product no. / Details

Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)	Weight (g)
	W	H	D	a	b	c		
AWA 5-3- 5SS	52	32	53.2	39	22.5	49.2	11.2	69.5
AWA 5-3- 7SS	52	32	73.2	39	22.5	69.2	9.18	90.5
AWA 5-3-10SS	52	32	98.2	39	22.5	94.2	7.64	116.5
AWA 5-3-12SS	52	32	123.2	39	22.5	119.2	6.63	142.5
AWA 6-6- 7SS	61	61	68	47	51	64	4.41	156
AWA 6-6-10SS	61	61	98	47	51	94	3.5	212
AWA 6-6-14SS	61	61	138	47	51	134	2.83	286
AWA 6-6-19SS	61	61	188	47	51	184	2.33	379
AWA 6-6-24SS	61	61	238	47	51	234	2.02	471.5
AWA 8-4- 8SS	76	41	78	62	31	74	5.97	154
AWA 8-4-10SS	76	41	103	62	31	99	5.01	195
AWA 8-4-13SS	76	41	128	62	31	124	4.37	236.5
AWA 8-4-16SS	76	41	163	62	31	159	3.76	294
AWA 8-8- 9SS	82	82	86	66.5	66.5	81	3.1	319.5
AWA 8-8-11SS	82	82	111	66.5	66.5	106	2.63	392.5
AWA 8-8-16SS	82	82	156	66.5	66.5	151	2.12	523.5
AWA 8-8-21SS	82	82	206	66.5	66.5	201	1.79	669.5
AWA 8-8-26SS	82	82	261	66.5	66.5	256	1.54	829.5
AWA10-5-10SS	102	52	95.6	86.5	36.5	90.6	4.52	288.5
AWA10-5-14SS	102	52	135.6	86.5	36.5	130.6	3.62	387.5
AWA10-5-18SS	102	52	175.6	86.5	36.5	170.6	3.08	486
AWA10-5-23SS	102	52	225.6	86.5	36.5	220.6	2.64	609
AWA12-7- 9SS	115.7	67	90.6	100.2	51.5	85.6	3.6	354
AWA12-7-12SS	115.7	67	125.6	100.2	51.5	120.6	2.93	460
AWA12-7-17SS	115.7	67	165.1	100.2	51.5	160.1	2.47	579.5
AWA12-7-20SS	115.7	67	200.6	100.2	51.5	195.6	2.18	687
AWA15-8-12SS	152	77	120.6	136.5	61.5	115.6	2.64	565.5
AWA15-8-16SS	152	77	160.6	136.5	61.5	155.6	2.2	712
AWA15-8-21SS	152	77	210.6	136.5	61.5	205.6	1.86	895.5
AWA15-8-26SS	152	77	260.6	136.5	61.5	255.6	1.63	1,079
AWA20-8-15SS	202.4	77.4	153.8	186.5	61.5	147.8	2.3	854.5
AWA20-8-19SS	202.4	77.4	193.8	186.5	61.5	187.8	1.99	1,025
AWA20-8-24SS	202.4	77.4	243.8	186.5	61.5	237.8	1.72	1,238
AWA20-8-29SS	202.4	77.4	293.8	186.5	61.5	287.8	1.54	1,451.5



Heat
Resistant



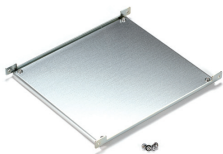
- Stylish and elegantly designed with a hairline finish.
- Excellent cooling performance with the heat-sink side plates.
- Now available in 56 sizes, and 2 different colors.
- Tough and robust enclosure from using aluminium extrusion parts.
- Simple and easy to assemble construction.
- Flat back heat-sink plates for more effective heat spreading.

Included screws
 BB color type
 M3-6 flat head & Black trivalent chromate x 16 pcs
 M3-5 Slotted raised countersunk & Black trivalent chromate x 12 pcs
 SS color type
 M3-6 flat head & Nickel plated x 16 pcs
 M3-5 Slotted raised countersunk & Nickel plated x 12 pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Heat-sink side plate	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
2	Panel	2	Extruded aluminium A6063S-T5	Silver • Black / Hairline brushed & Anodized
3	Top • Bottom cover	2	Aluminium A1050P t=2.0	Silver • Black / Hairline brushed & Anodized
4	Corner support	4	Steel SPCC t=1.6	Trivalent chromate
5	Rubber feet	4	Polyurethane	Black

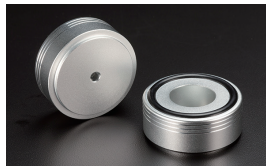
Accessories (Optional parts)



Mounting plate HYC series
See page 331



L-bracket HYCL series
See page 331



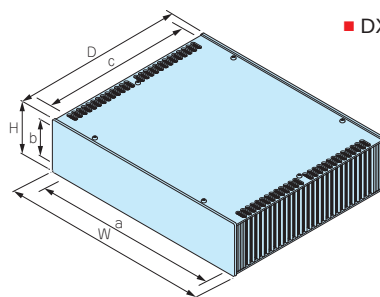
Aluminium isolation feet AFS • AFM series
See page 333



TORX screw - for top / bottom cover MR3-5Z series
See page 398



HY dimensions



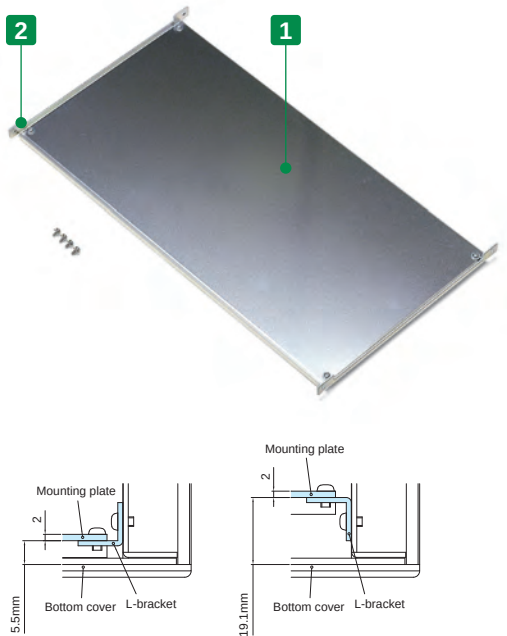
■ DXF/DWG/PDF/STP drawings available on our website.

Product no. / Details

Product no.		External dimensions			Internal dimensions			Weight (kg)
● Silver	● Black	W	H	D	a	b	c	
HY 44-23-23SS	HY 44-23-23BB	230	44	231	186	36	225	1.1
HY 44-23-33SS	HY 44-23-33BB	230	44	330	186	36	324	1.6
HY 44-28-23SS	HY 44-28-23BB	280	44	231	236	36	225	1.4
HY 44-28-33SS	HY 44-28-33BB	280	44	330	236	36	324	1.9
HY 44-33-23SS	HY 44-33-23BB	330	44	231	286	36	225	1.5
HY 44-33-33SS	HY 44-33-33BB	330	44	330	286	36	324	2.2
HY 44-43-23SS	HY 44-43-23BB	430	44	231	386	36	225	1.9
HY 44-43-33SS	HY 44-43-33BB	430	44	330	386	36	324	2.6
HY 70-23-23SS	HY 70-23-23BB	230	70	231	186	62	225	1.6
HY 70-23-33SS	HY 70-23-33BB	230	70	330	186	62	324	2.2
HY 70-28-23SS	HY 70-28-23BB	280	70	231	236	62	225	1.8
HY 70-28-33SS	HY 70-28-33BB	280	70	330	236	62	324	2.5
HY 70-33-23SS	HY 70-33-23BB	330	70	231	286	62	225	2.0
HY 70-33-33SS	HY 70-33-33BB	330	70	330	286	62	324	2.8
HY 70-43-23SS	HY 70-43-23BB	430	70	231	386	62	225	2.3
HY 70-43-33SS	HY 70-43-33BB	430	70	330	386	62	324	3.2
HY 88-23-23SS	HY 88-23-23BB	230	88	231	186	80	225	1.9
HY 88-23-33SS	HY 88-23-33BB	230	88	330	186	80	324	2.6
HY 88-28-23SS	HY 88-28-23BB	280	88	231	236	80	225	2.1
HY 88-28-33SS	HY 88-28-33BB	280	88	330	236	80	324	2.8
HY 88-33-23SS	HY 88-33-23BB	330	88	231	286	80	225	2.3
HY 88-33-33SS	HY 88-33-33BB	330	88	330	286	80	324	3.1
HY 88-43-23SS	HY 88-43-23BB	430	88	231	386	80	225	2.7
HY 88-43-33SS	HY 88-43-33BB	430	88	330	386	80	324	3.6
HY 99-23-23SS	HY 99-23-23BB	230	99	231	186	91	225	2.1
HY 99-23-33SS	HY 99-23-33BB	230	99	330	186	91	324	2.7
HY 99-28-23SS	HY 99-28-23BB	280	99	231	236	91	225	2.3
HY 99-28-33SS	HY 99-28-33BB	280	99	330	236	91	324	3.1
HY 99-33-23SS	HY 99-33-23BB	330	99	231	286	91	225	2.5
HY 99-33-33SS	HY 99-33-33BB	330	99	330	286	91	324	3.4
HY 99-43-23SS	HY 99-43-23BB	430	99	231	386	91	225	2.9
HY 99-43-33SS	HY 99-43-33BB	430	99	330	386	91	324	3.9
HY133-23-23SS	HY133-23-23BB	230	132.5	231	186	124.5	225	2.6
HY133-23-33SS	HY133-23-33BB	230	132.5	330	186	124.5	324	3.4
HY133-28-23SS	HY133-28-23BB	280	132.5	231	236	124.5	225	2.8
HY133-28-33SS	HY133-28-33BB	280	132.5	330	236	124.5	324	3.8
HY133-33-23SS	HY133-33-23BB	330	132.5	231	286	124.5	225	3.0
HY133-33-33SS	HY133-33-33BB	330	132.5	330	286	124.5	324	4.1
HY133-43-23SS	HY133-43-23BB	430	132.5	231	386	124.5	225	3.5
HY133-43-33SS	HY133-43-33BB	430	132.5	330	386	124.5	324	4.7
HY149-23-23SS	HY149-23-23BB	230	149	231	186	141	225	2.8
HY149-23-33SS	HY149-23-33BB	230	149	330	186	141	324	3.8
HY149-28-23SS	HY149-28-23BB	280	149	231	236	141	225	3.1
HY149-28-33SS	HY149-28-33BB	280	149	330	236	141	324	4.2
HY149-33-23SS	HY149-33-23BB	330	149	231	286	141	225	3.3
HY149-33-33SS	HY149-33-33BB	330	149	330	286	141	324	4.5
HY149-43-23SS	HY149-43-23BB	430	149	231	386	141	225	3.8
HY149-43-33SS	HY149-43-33BB	430	149	330	386	141	324	5.1
HY177-23-23SS	HY177-23-23BB	230	177	231	186	169	225	3.4
HY177-23-33SS	HY177-23-33BB	230	177	330	186	169	324	4.5
HY177-28-23SS	HY177-28-23BB	280	177	231	236	169	225	3.6
HY177-28-33SS	HY177-28-33BB	280	177	330	236	169	324	4.8
HY177-33-23SS	HY177-33-23BB	330	177	231	286	169	225	3.9
HY177-33-33SS	HY177-33-33BB	330	177	330	286	169	324	5.2
HY177-43-23SS	HY177-43-23BB	430	177	231	386	169	225	4.5
HY177-43-33SS	HY177-43-33BB	430	177	330	386	169	324	5.8

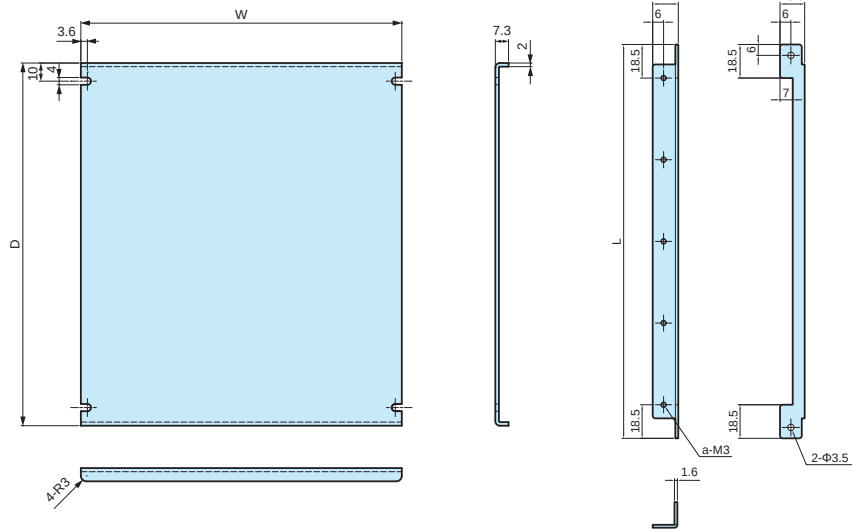
HYC series

MOUNTING PLATE for HY • HYR • HYRH



HYC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



- Mounting plate and L-bracket set.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Mounting plate	1	Aluminium A1050P t=2.0	Unfinished
2	L-bracket	2	Steel SPCC t=1.6	Trivalent chromate
—	Screw	1 set	Steel M3	Trivalent chromate

Product no. / Details

Product no.	W	D	L	a	Suitable models	Weight (g)
HYC23-23	177	200	217	5	HY□-23-23	300
HYC23-28	227	200	217	5	HY□-28-23	350
HYC23-33	277	200	217	5	HY□-33-23	410
HYC23-43	377	200	217	5	HY□-43-23	520
HYC33-23	177	299	316	7	HY□-23-33	450
HYC33-28	227	299	316	7	HY□-28-33	550
HYC33-33	277	299	316	7	HY□-33-33	710
HYC33-43	377	299	316	7	HY□-43-33	800



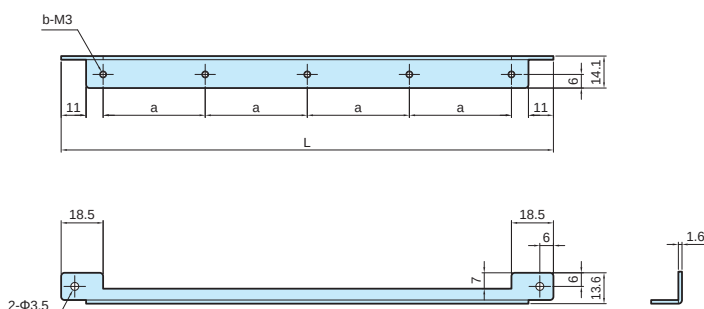
Clinching stud customization service available.

HYCL series

L-bracket for HY • HYR • HYRH

HYCL dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



- Simple L-bracket and screw set.

- Use with your original mounting plate or PCB.

Components

No.	Part name	Material	Color / Finish
1	L-bracket	Steel t=1.6	Trivalent chromate
2	Screw	Steel M3	Trivalent chromate

Product no. / Details

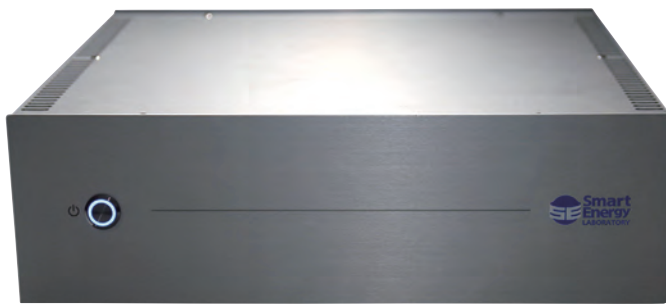
Product no.	L	a	b	Pack of
HYCL-23	217	45	5	2
HYCL-33	316	46.5	7	2

HY series APPLICATION EXAMPLE

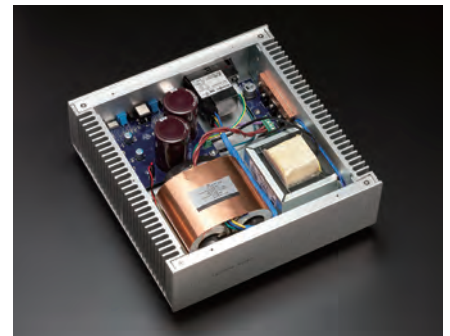
Complete Balanced Special Tuned DC Headphone Amplifier



Energy Creation Power Conditioner Development Kit



Linear Power Supply

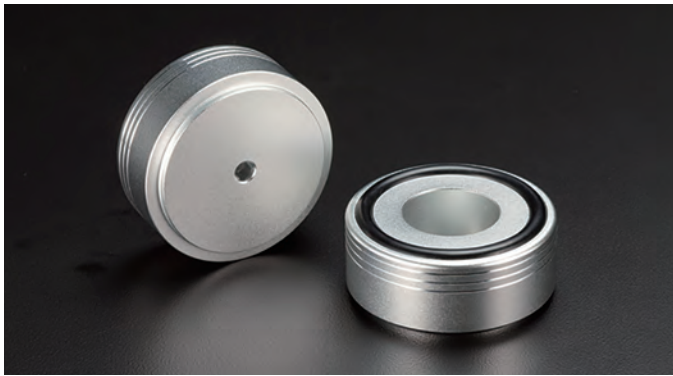


Industrial Fanless PC



AFS•AFM series

ALUMINIUM ISOLATION FEET



External type / Shot blast finish AFS series



Internal type / Reflective finish AFM series

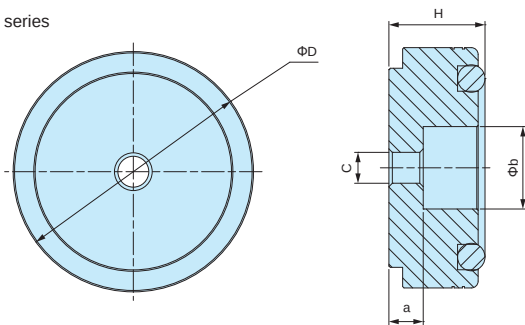
- The surface treatment and finish allows the feet to exhibit a polished and luxurious feel.
- Non-slip NBR O-ring is located on the underside of the feet.

Product no. / Details

Product no.		D	H	Installation type	C	a	b	Pack of
● Silver	● Black							
AFS20- 8S	AFS20- 8B	20	8	External	Φ3.4	3	9	4
AFS25-10S	AFS25-10B	25	10	External	Φ4.5	4	12	4
AFS30-12S	AFS30-12B	30	12	External	Φ4.5	5	12	4
AFS35-14S	AFS35-14B	35	14	External	Φ4.5	5	12	4
AFS39-16S	AFS39-16B	39	16	External	Φ4.5	5	15	4
AFS44-18S	AFS44-18B	44	18	External	Φ4.5	5	20	4
AFS55-20S	AFS55-20B	55	20	External	Φ5.5	5	20	4
AFM15- 7S	—	15	7	Internal	M3	4	—	4
AFM20- 9S	—	20	9	Internal	M3	5	—	4
AFM25-12S	—	25	12	Internal	M4	7	—	4
AFM30-14S	—	30	14	Internal	M4	8	—	4
AFM35-16S	—	35	16	Internal	M4	10	—	4
AFM39-18S	—	39	18	Internal	M4	10	—	4
AFM44-20S	—	44	20	Internal	M4	10	—	4
AFM55-22S	—	55	22	Internal	M5	15	—	4

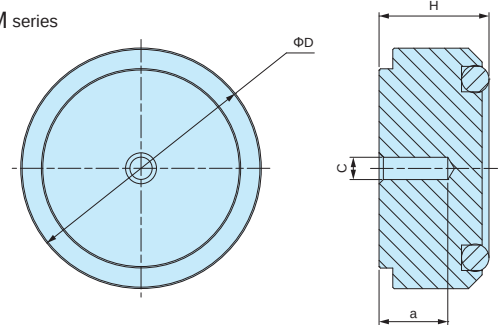
AFS • AFM dimensions

AFS series



- DXF/DWG/PDF/STP drawings available on our website.

AFM series



APPLICATION EXAMPLE



RS series

PLATED PLASTIC FEET

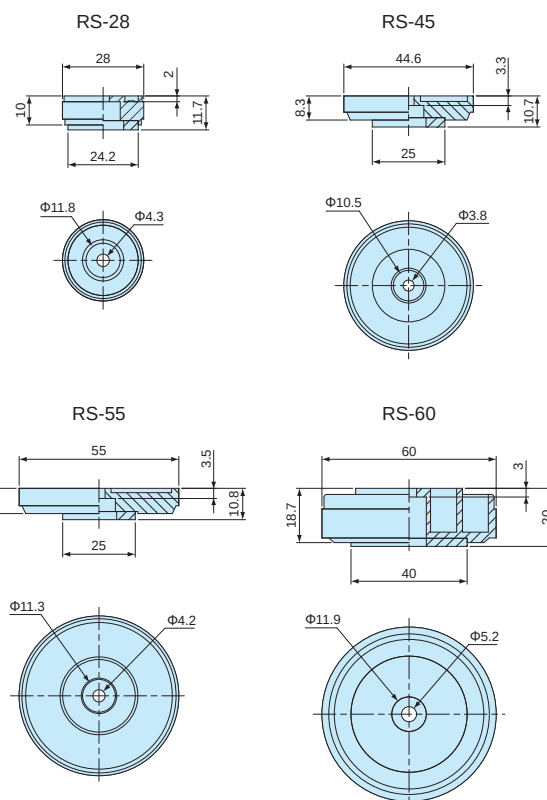


- Suitable for audio equipment use.
- Elastomeric foam pad is located on the underside of the feet.

Product no. / Details

Product no.		Material	Pack of
● Silver	● Gold		
RS-28S	RS-28G	ABS UL94HB / Polyester / EVA	4
RS-45S	RS-45G	ABS UL94HB / Polyester / EVA	4
RS-55S	RS-55G	ABS UL94HB / Polyester / EVA	4
RS-60S	RS-60G	ABS UL94HB / Polyester / EVA	4

RS dimensions



■ DXF/DWG/PDF drawings available on our website.

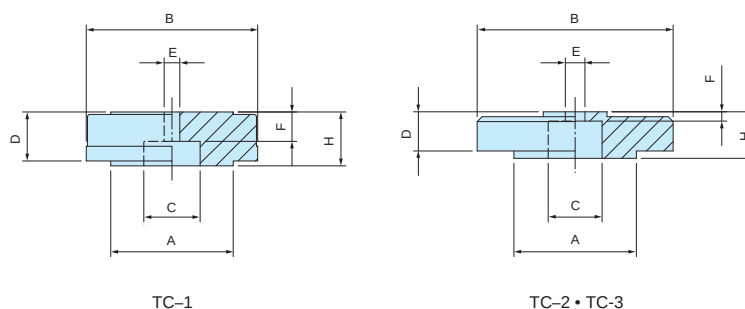
TC series

ALUMINIUM FEET



- Aluminium material gives it a refined and elegant look.
- Suitable for audio equipment use.
- Elastomeric foam pad is located on the underside of the feet.

TC dimensions



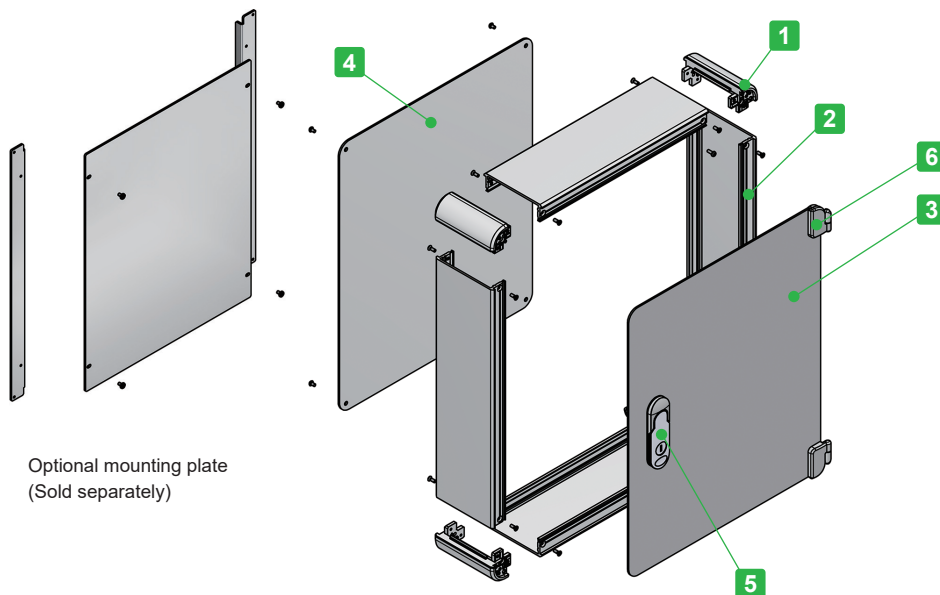
■ DXF/DWG/PDF drawings available on our website.

Product no. / Details

Product no.		A	B	C	D	E	F	H	Material	Pack of
● Silver	● Gold									
TC-1S	TC-1G	25	35	11.5	9.7	3.4	5.6	11.5	ABS UL94HB / Aluminium / EVA	4
TC-2S	TC-2G	25	40	10.5	10.4	4.1	2.4	12.5	ABS UL94HB / Aluminium / EVA	4
TC-3S	TC-3G	25	45	11.7	13	4.2	7.5	15	ABS UL94HB / Aluminium / EVA	4



- Aluminium enclosure with opening/closing cover for easy access to the inside of the case.
- Flat handle is available in 2 configurations: Normal "N" type, and Key Lock "K" type.
- A large selection of 252 different sizes in 2 different colors to choose from.
- Suitable for use as industrial control panel, machine controller, power supply, and more.



Included screws

- Bottom cover
M3-5 original trapezoid head & Nickel plated x 8 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs
- Hinge
M3-5 flat head & Trivalent chromate x 2~3 pcs
M3 pan head & Trivalent chromate x 2~3 pcs

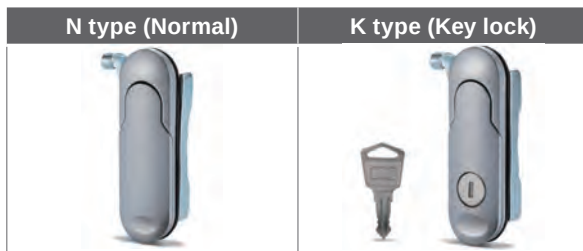
Recommended torque : 0.3 ~ 0.6N • m

* Recommended torque listed is for reference only;
actual may differ. Assemble after testing torque.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Corner block	4	Diecast aluminium ADC12	Silver / Black Painted (Unfinished inside)
2	Frame	4	Extruded aluminium A6063S-T5	Silver / Anodized with clear coating
3	Open-closing panel	1	Aluminium A1100P	Silver / Anodized
4	Screwed panel	1	Aluminium A1100P	Silver / Anodized
5	Flat handle (Key lock / Normal)	1 set	Diecast zinc	Silver / Painted
6	Hinge	1 set	Diecast zinc	Silver / Painted

To select Flat handle and Color, follow steps **1** ~ **2** below to determine product number.

1 Flat handle (Normal / Key lock)**2 Color****Product Number**

To determine a product number, fill H-W-D dimensions and select Flat handle and Color code in the following blank boxes.

AUH - -

H-W-D dimensions

See page P337 ~ 339 for dimensions / product no.

Handle
(N or K)

Color
(SS or SB)

Numbering example :

"H88 x W430 x D300mm, Normal Flat handle, SB Color"

➔ **AUH 88-43-30 NSB**

Accessories (Optional parts)

Mounting plate AUC series
See page 340



Adhesive panel protection pad
See page 339



Aluminium handle OH series
See website



DIN Rail FDR series
See page 100



Wall mount support arm MAR series
See page 273 ~ 274

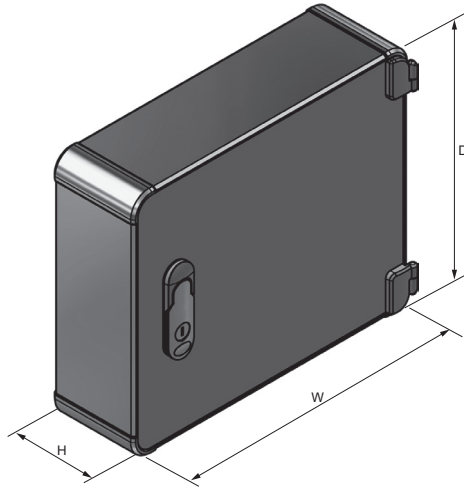
AUH dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

1x Flat handle, 2 x Hinge models

Applicable for models other than

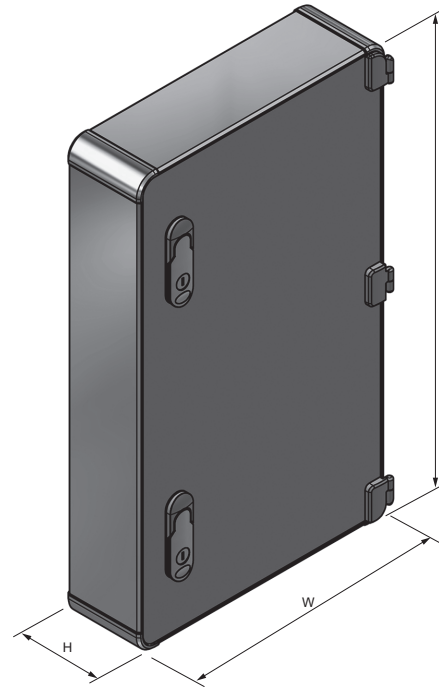
AUH□-30-50, □-36-50, □-36-60, □-43-50, □-43-60.



2 x Flat handle, 3 x Hinge models

Applicable for

AUH□-30-50, □-36-50, □-36-60, □-43-50, □-43-60.



Product no. / Details

■ Please suffix handle and color code at the end of the product number.

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH66-16-20□□□	66	160	200	1.2	1 / 2
AUH66-16-25□□□	66	160	250	1.4	1 / 2
AUH66-16-30□□□	66	160	300	1.5	1 / 2
AUH66-20-20□□□	66	200	200	1.3	1 / 2
AUH66-20-25□□□	66	200	250	1.5	1 / 2
AUH66-20-30□□□	66	200	300	1.7	1 / 2
AUH66-20-36□□□	66	200	360	1.9	1 / 2
AUH66-25-25□□□	66	250	250	1.7	1 / 2
AUH66-25-30□□□	66	250	300	1.9	1 / 2
AUH66-25-36□□□	66	250	360	2.2	1 / 2
AUH66-25-43□□□	66	250	430	2.5	1 / 2
AUH66-30-20□□□	66	300	200	1.7	1 / 2
AUH66-30-25□□□	66	300	250	1.9	1 / 2
AUH66-30-30□□□	66	300	300	2.2	1 / 2
AUH66-30-36□□□	66	300	360	2.4	1 / 2
AUH66-30-43□□□	66	300	430	2.8	1 / 2
AUH66-30-50□□□	66	300	500	3.3	2 / 3
AUH66-36-25□□□	66	360	250	2.2	1 / 2
AUH66-36-30□□□	66	360	300	2.4	1 / 2
AUH66-36-36□□□	66	360	360	2.7	1 / 2
AUH66-36-43□□□	66	360	430	3.1	1 / 2
AUH66-36-50□□□	66	360	500	3.7	2 / 3
AUH66-36-60□□□	66	360	600	4.2	2 / 3
AUH66-43-30□□□	66	430	300	2.8	1 / 2
AUH66-43-36□□□	66	430	360	3.1	1 / 2
AUH66-43-43□□□	66	430	430	3.5	1 / 2
AUH66-43-50□□□	66	430	500	4.1	2 / 3
AUH66-43-60□□□	66	430	600	4.7	2 / 3

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH88-16-20□□□	88	160	200	1.3	1 / 2
AUH88-16-25□□□	88	160	250	1.5	1 / 2
AUH88-16-30□□□	88	160	300	1.7	1 / 2
AUH88-20-20□□□	88	200	200	1.5	1 / 2
AUH88-20-25□□□	88	200	250	1.7	1 / 2
AUH88-20-30□□□	88	200	300	1.9	1 / 2
AUH88-20-36□□□	88	200	360	2.1	1 / 2
AUH88-25-25□□□	88	250	250	1.9	1 / 2
AUH88-25-30□□□	88	250	300	2.1	1 / 2
AUH88-25-36□□□	88	250	360	2.4	1 / 2
AUH88-25-43□□□	88	250	430	2.7	1 / 2
AUH88-30-20□□□	88	300	200	1.9	1 / 2
AUH88-30-25□□□	88	300	250	2.1	1 / 2
AUH88-30-30□□□	88	300	300	2.4	1 / 2
AUH88-30-36□□□	88	300	360	2.6	1 / 2
AUH88-30-43□□□	88	300	430	3.0	1 / 2
AUH88-30-50□□□	88	300	500	3.5	2 / 3
AUH88-36-25□□□	88	360	250	2.4	1 / 2
AUH88-36-30□□□	88	360	300	2.6	1 / 2
AUH88-36-36□□□	88	360	360	3.0	1 / 2
AUH88-36-43□□□	88	360	430	3.4	1 / 2
AUH88-36-50□□□	88	360	500	3.9	2 / 3
AUH88-36-60□□□	88	360	600	4.5	2 / 3
AUH88-43-30□□□	88	430	300	3.0	1 / 2
AUH88-43-36□□□	88	430	360	3.4	1 / 2
AUH88-43-43□□□	88	430	430	3.8	1 / 2
AUH88-43-50□□□	88	430	500	4.4	2 / 3
AUH88-43-60□□□	88	430	600	5.1	2 / 3

Product no. / Details

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH 99-16-20□□□	99	160	200	1.3	1 / 2
AUH 99-16-25□□□	99	160	250	1.5	1 / 2
AUH 99-16-30□□□	99	160	300	1.7	1 / 2
AUH 99-20-20□□□	99	200	200	1.5	1 / 2
AUH 99-20-25□□□	99	200	250	1.7	1 / 2
AUH 99-20-30□□□	99	200	300	1.9	1 / 2
AUH 99-20-36□□□	99	200	360	2.1	1 / 2
AUH 99-25-25□□□	99	250	250	1.9	1 / 2
AUH 99-25-30□□□	99	250	300	2.1	1 / 2
AUH 99-25-36□□□	99	250	360	2.4	1 / 2
AUH 99-25-43□□□	99	250	430	2.7	1 / 2
AUH 99-30-20□□□	99	300	200	1.9	1 / 2
AUH 99-30-25□□□	99	300	250	2.1	1 / 2
AUH 99-30-30□□□	99	300	300	2.4	1 / 2
AUH 99-30-36□□□	99	300	360	2.7	1 / 2
AUH 99-30-43□□□	99	300	430	3.0	1 / 2
AUH 99-30-50□□□	99	300	500	3.6	2 / 3
AUH 99-36-25□□□	99	360	250	2.4	1 / 2
AUH 99-36-30□□□	99	360	300	2.7	1 / 2
AUH 99-36-36□□□	99	360	360	3.0	1 / 2
AUH 99-36-43□□□	99	360	430	3.4	1 / 2
AUH 99-36-50□□□	99	360	500	4.0	2 / 3
AUH 99-36-60□□□	99	360	600	4.6	2 / 3
AUH 99-43-30□□□	99	430	300	3.0	1 / 2
AUH 99-43-36□□□	99	430	360	3.4	1 / 2
AUH 99-43-43□□□	99	430	430	3.9	1 / 2
AUH 99-43-50□□□	99	430	500	4.5	2 / 3
AUH 99-43-60□□□	99	430	600	5.1	2 / 3
AUH115-16-20□□□	115	160	200	1.4	1 / 2
AUH115-16-25□□□	115	160	250	1.6	1 / 2
AUH115-16-30□□□	115	160	300	1.8	1 / 2
AUH115-20-20□□□	115	200	200	1.6	1 / 2
AUH115-20-25□□□	115	200	250	1.8	1 / 2
AUH115-20-30□□□	115	200	300	2.0	1 / 2
AUH115-20-36□□□	115	200	360	2.2	1 / 2
AUH115-25-25□□□	115	250	250	2.0	1 / 2
AUH115-25-30□□□	115	250	300	2.3	1 / 2
AUH115-25-36□□□	115	250	360	2.5	1 / 2
AUH115-25-43□□□	115	250	430	2.9	1 / 2
AUH115-30-20□□□	115	300	200	2.0	1 / 2
AUH115-30-25□□□	115	300	250	2.3	1 / 2
AUH115-30-30□□□	115	300	300	2.5	1 / 2
AUH115-30-36□□□	115	300	360	2.8	1 / 2
AUH115-30-43□□□	115	300	430	3.2	1 / 2
AUH115-30-50□□□	115	300	500	3.7	2 / 3
AUH115-36-25□□□	115	360	250	2.5	1 / 2
AUH115-36-30□□□	115	360	300	2.8	1 / 2
AUH115-36-36□□□	115	360	360	3.2	1 / 2
AUH115-36-43□□□	115	360	430	3.6	1 / 2
AUH115-36-50□□□	115	360	500	4.2	2 / 3
AUH115-36-60□□□	115	360	600	4.8	2 / 3
AUH115-43-30□□□	115	430	300	3.2	1 / 2
AUH115-43-36□□□	115	430	360	3.6	1 / 2
AUH115-43-43□□□	115	430	430	4.1	1 / 2
AUH115-43-50□□□	115	430	500	4.7	2 / 3
AUH115-43-60□□□	115	430	600	5.4	2 / 3
AUH133-16-20□□□	132.5	160	200	1.7	1 / 2
AUH133-16-25□□□	132.5	160	250	1.9	1 / 2
AUH133-16-30□□□	132.5	160	300	2.1	1 / 2
AUH133-20-20□□□	132.5	200	200	1.8	1 / 2
AUH133-20-25□□□	132.5	200	250	2.1	1 / 2
AUH133-20-30□□□	132.5	200	300	2.3	1 / 2
AUH133-20-36□□□	132.5	200	360	2.6	1 / 2
AUH133-25-25□□□	132.5	250	250	2.4	1 / 2

■ Please suffix handle and color code at the end of the product number.

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH133-25-30□□□	132.5	250	300	2.6	1 / 2
AUH133-25-36□□□	132.5	250	360	2.9	1 / 2
AUH133-25-43□□□	132.5	250	430	3.3	1 / 2
AUH133-30-20□□□	132.5	300	200	2.3	1 / 2
AUH133-30-25□□□	132.5	300	250	2.6	1 / 2
AUH133-30-30□□□	132.5	300	300	2.9	1 / 2
AUH133-30-36□□□	132.5	300	360	3.3	1 / 2
AUH133-30-43□□□	132.5	300	430	3.7	1 / 2
AUH133-30-50□□□	132.5	300	500	4.2	2 / 3
AUH133-36-25□□□	132.5	360	250	2.9	1 / 2
AUH133-36-30□□□	132.5	360	300	3.3	1 / 2
AUH133-36-36□□□	132.5	360	360	3.6	1 / 2
AUH133-36-43□□□	132.5	360	430	4.1	1 / 2
AUH133-36-50□□□	132.5	360	500	4.7	2 / 3
AUH133-36-60□□□	132.5	360	600	5.4	2 / 3
AUH133-43-30□□□	132.5	430	300	3.7	1 / 2
AUH133-43-36□□□	132.5	430	360	4.1	1 / 2
AUH133-43-43□□□	132.5	430	430	4.6	1 / 2
AUH133-43-50□□□	132.5	430	500	5.3	2 / 3
AUH133-43-60□□□	132.5	430	600	6.0	2 / 3
AUH149-16-20□□□	149	160	200	1.7	1 / 2
AUH149-16-25□□□	149	160	250	1.9	1 / 2
AUH149-16-30□□□	149	160	300	2.2	1 / 2
AUH149-20-20□□□	149	200	200	1.9	1 / 2
AUH149-20-25□□□	149	200	250	2.1	1 / 2
AUH149-20-30□□□	149	200	300	2.4	1 / 2
AUH149-20-36□□□	149	200	360	2.7	1 / 2
AUH149-25-25□□□	149	250	250	2.4	1 / 2
AUH149-25-30□□□	149	250	300	2.7	1 / 2
AUH149-25-36□□□	149	250	360	3.0	1 / 2
AUH149-25-43□□□	149	250	430	3.4	1 / 2
AUH149-30-20□□□	149	300	200	2.4	1 / 2
AUH149-30-25□□□	149	300	250	2.7	1 / 2
AUH149-30-30□□□	149	300	300	3.0	1 / 2
AUH149-30-36□□□	149	300	360	3.4	1 / 2
AUH149-30-43□□□	149	300	430	3.8	1 / 2
AUH149-30-50□□□	149	300	500	4.4	2 / 3
AUH149-36-25□□□	149	360	250	3.0	1 / 2
AUH149-36-30□□□	149	360	300	3.4	1 / 2
AUH149-36-36□□□	149	360	360	3.8	1 / 2
AUH149-36-43□□□	149	360	430	4.2	1 / 2
AUH149-36-50□□□	149	360	500	4.9	2 / 3
AUH149-36-60□□□	149	360	600	5.6	2 / 3
AUH149-43-30□□□	149	430	300	3.8	1 / 2
AUH149-43-36□□□	149	430	360	4.2	1 / 2
AUH149-43-43□□□	149	430	430	4.8	1 / 2
AUH149-43-50□□□	149	430	500	5.5	2 / 3
AUH149-43-60□□□	149	430	600	6.2	2 / 3
AUH177-16-20□□□	177	160	200	1.9	1 / 2
AUH177-16-25□□□	177	160	250	2.1	1 / 2
AUH177-16-30□□□	177	160	300	2.4	1 / 2
AUH177-20-20□□□	177	200	200	2.1	1 / 2
AUH177-20-25□□□	177	200	250	2.4	1 / 2
AUH177-20-30□□□	177	200	300	2.6	1 / 2
AUH177-20-36□□□	177	200	360	3.0	1 / 2
AUH177-25-25□□□	177	250	250	2.7	1 / 2
AUH177-25-30□□□	177	250	300	3.0	1 / 2
AUH177-25-36□□□	177	250	360	3.3	1 / 2
AUH177-25-43□□□	177	250	430	3.7	1 / 2
AUH177-30-20□□□	177	300	200	2.6	1 / 2
AUH177-30-25□□□	177	300	250	3.0	1 / 2
AUH177-30-30□□□	177	300	300	3.3	1 / 2
AUH177-30-36□□□	177	300	360	3.7	1 / 2
AUH177-30-43□□□	177	300	430	4.1	1 / 2

Product no. / Details

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH177-30-50□□□	177	300	500	4.8	2 / 3
AUH177-36-25□□□	177	360	250	3.3	1 / 2
AUH177-36-30□□□	177	360	300	3.7	1 / 2
AUH177-36-36□□□	177	360	360	4.1	1 / 2
AUH177-36-43□□□	177	360	430	4.6	1 / 2
AUH177-36-50□□□	177	360	500	5.3	2 / 3
AUH177-36-60□□□	177	360	600	6.0	2 / 3
AUH177-43-30□□□	177	430	300	4.1	1 / 2
AUH177-43-36□□□	177	430	360	4.6	1 / 2
AUH177-43-43□□□	177	430	430	5.2	1 / 2
AUH177-43-50□□□	177	430	500	5.9	2 / 3
AUH177-43-60□□□	177	430	600	6.7	2 / 3
AUH222-16-20□□□	221.5	161	201	2.2	1 / 2
AUH222-16-25□□□	221.5	161	251	2.5	1 / 2
AUH222-16-30□□□	221.5	161	301	2.7	1 / 2
AUH222-20-20□□□	221.5	201	201	2.4	1 / 2
AUH222-20-25□□□	221.5	201	251	2.7	1 / 2
AUH222-20-30□□□	221.5	201	301	3.0	1 / 2
AUH222-20-36□□□	221.5	201	361	3.4	1 / 2
AUH222-25-25□□□	221.5	251	251	3.1	1 / 2
AUH222-25-30□□□	221.5	251	301	3.4	1 / 2
AUH222-25-36□□□	221.5	251	361	3.8	1 / 2
AUH222-25-43□□□	221.5	251	431	4.3	1 / 2
AUH222-30-20□□□	221.5	301	201	3.0	1 / 2
AUH222-30-25□□□	221.5	301	251	3.4	1 / 2
AUH222-30-30□□□	221.5	301	301	3.8	1 / 2
AUH222-30-36□□□	221.5	301	361	4.2	1 / 2
AUH222-30-43□□□	221.5	301	431	4.7	1 / 2
AUH222-30-50□□□	221.5	301	501	5.4	2 / 3
AUH222-36-25□□□	221.5	361	251	3.8	1 / 2
AUH222-36-30□□□	221.5	361	301	4.2	1 / 2
AUH222-36-36□□□	221.5	361	361	4.7	1 / 2
AUH222-36-43□□□	221.5	361	431	5.2	1 / 2
AUH222-36-50□□□	221.5	361	501	6.0	2 / 3

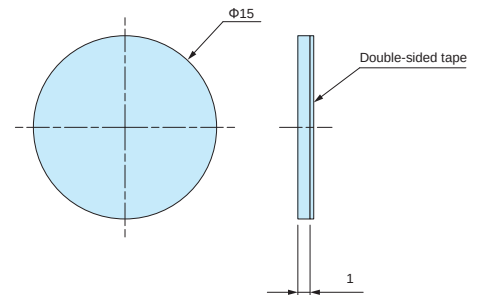
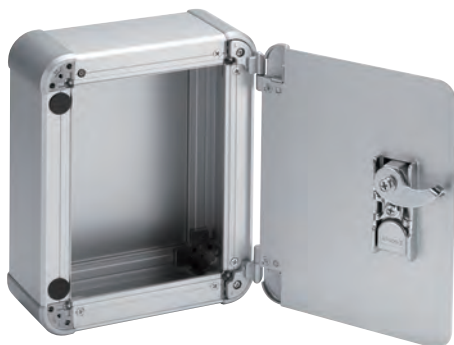
■ Please suffix handle and color code at the end of the product number.

Product no.	H	W	D	Weight (kg)	Handle / Hinge qty
AUH222-36-60□□□	221.5	361	601	6.7	2 / 3
AUH222-43-30□□□	221.5	431	301	4.7	1 / 2
AUH222-43-36□□□	221.5	431	361	5.2	1 / 2
AUH222-43-43□□□	221.5	431	431	5.8	1 / 2
AUH222-43-50□□□	221.5	431	501	6.6	2 / 3
AUH222-43-60□□□	221.5	431	601	7.5	2 / 3
AUH266-16-20□□□	265.9	161	201	2.6	1 / 2
AUH266-16-25□□□	265.9	161	251	3.0	1 / 2
AUH266-16-30□□□	265.9	161	301	3.3	1 / 2
AUH266-20-20□□□	265.9	201	201	2.9	1 / 2
AUH266-20-25□□□	265.9	201	251	3.3	1 / 2
AUH266-20-30□□□	265.9	201	301	3.7	1 / 2
AUH266-20-36□□□	265.9	201	361	4.1	1 / 2
AUH266-25-25□□□	265.9	251	251	3.7	1 / 2
AUH266-25-30□□□	265.9	251	301	4.1	1 / 2
AUH266-25-36□□□	265.9	251	361	4.6	1 / 2
AUH266-25-43□□□	265.9	251	431	5.2	1 / 2
AUH266-30-20□□□	265.9	301	201	3.7	1 / 2
AUH266-30-25□□□	265.9	301	251	4.1	1 / 2
AUH266-30-30□□□	265.9	301	301	4.6	1 / 2
AUH266-30-36□□□	265.9	301	361	5.1	1 / 2
AUH266-30-43□□□	265.9	301	431	5.7	1 / 2
AUH266-30-50□□□	265.9	301	501	6.5	2 / 3
AUH266-36-25□□□	265.9	361	251	4.6	1 / 2
AUH266-36-30□□□	265.9	361	301	5.1	1 / 2
AUH266-36-36□□□	265.9	361	361	5.6	1 / 2
AUH266-36-43□□□	265.9	361	431	6.3	1 / 2
AUH266-36-50□□□	265.9	361	501	7.1	2 / 3
AUH266-36-60□□□	265.9	361	601	8.0	2 / 3
AUH266-43-30□□□	265.9	431	301	5.7	1 / 2
AUH266-43-36□□□	265.9	431	361	6.3	1 / 2
AUH266-43-43□□□	265.9	431	431	7.0	1 / 2
AUH266-43-50□□□	265.9	431	501	7.9	2 / 3
AUH266-43-60□□□	265.9	431	601	8.9	2 / 3

Accessories (Optional parts)

ACP-15

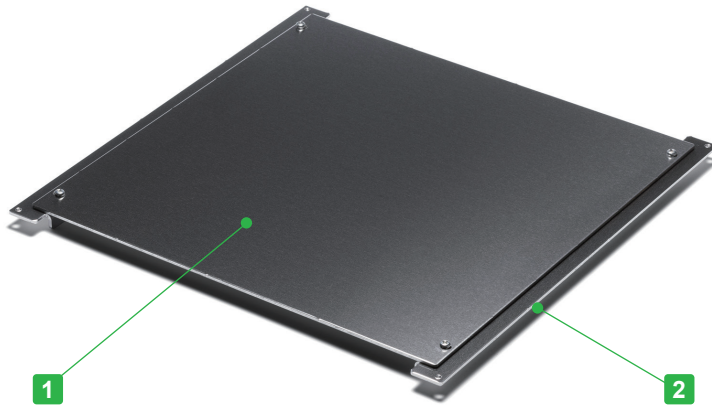
ADHESIVE PANEL PROTECTION PAD



■ Adhesive shock absorbing cushion for AUH series. Can be attached to the contact surface between the open-closing panel and the frame.

Product no. / Details

Product no.	Material	Color	Pack of
ACP-15	Polyolefin foam	Black	3

AUC series**MOUNTING PLATE for AUH**

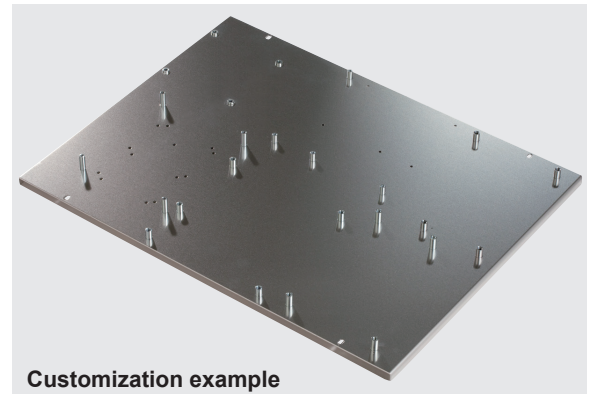
■ Mounting plate for AUH series.

Components

No.	Part name	Pcs	Material	Finish
1	Mounting plate	1	Aluminium A1050P t=2.0	Unfinished
2	L-bracket	2	Aluminium A1050P t=2.0	Unfinished

Included screw :

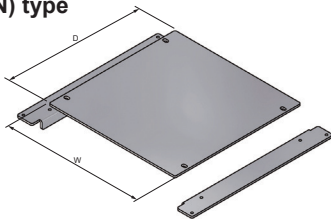
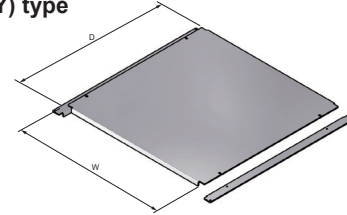
- Corner block M3 flat head : Nickel plated x 4
- Mounting plate M3-5 pan head : Trivalent chromate x 4

**Customization example**

■ See page Custom-6 and our website for further details.

AUC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

Non-reinforced (N) type**Reinforced (Y) type****Product no. / Details**

Product no.	W	D	Enclosure H-W-D	Reinforcement	Weight (g)	Product no.	W	D	Enclosure H-W-D	Reinforcement	Weight (g)
AUC16-20	108	148	H-16-20	N	138	AUC30-36	248	308	H-30-36	N	512
AUC16-25	108	198	H-16-25	N	181	AUC30-43	248	378	H-30-43	N	626
AUC16-30	108	248	H-16-30	N	226	AUC30-50	248	448	H-30-50	N	741
AUC20-20	148	148	H-20-20	N	170	AUC36-25	308	198	H-36-25	N	395
AUC20-25	148	198	H-20-25	N	224	AUC36-30	308	248	H-36-30	N	494
AUC20-30	148	248	H-20-30	N	279	AUC36-36	308	308	H-36-36	N	581
AUC20-36	148	308	H-20-36	N	345	AUC36-43	308	378	H-36-43	N	749
AUC25-25	198	198	H-25-25	N	278	AUC36-50	308	448	H-36-50	N	886
AUC25-30	198	248	H-25-30	N	346	AUC43-30	378	248	H-43-30	Y	587
AUC25-36	198	308	H-25-36	N	428	AUC43-36	378	308	H-43-36	Y	728
AUC25-43	198	378	H-25-43	N	524	AUC43-43	378	378	H-43-43	Y	918
AUC30-20	248	148	H-30-20	N	249	AUC43-50	378	448	H-43-50	Y	1,082
AUC30-25	248	198	H-30-25	N	331	AUC60-36	548	308	H-60-36	Y	1,021
AUC30-30	248	248	H-30-30	N	413	AUC60-43	548	378	H-60-43	Y	1,279

How to install AUC mounting plate

1. Install L-bracket onto countersunk screw hole on corner block.



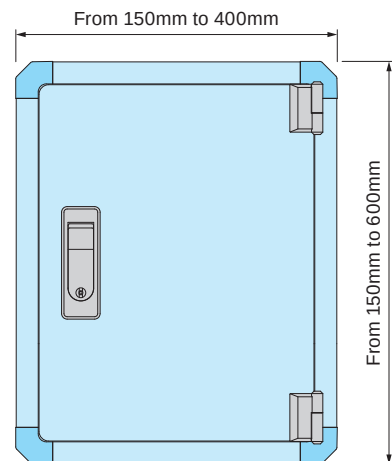
2. Install mounting plate onto L-bracket with screws.





- 108 different sizes in 2 different color variations available.
- Easy access to the inside of the case with opening / closing cover.
- Both with and without key lock types are available.
- Suitable for touch panel display, industrial control equipment and many others.

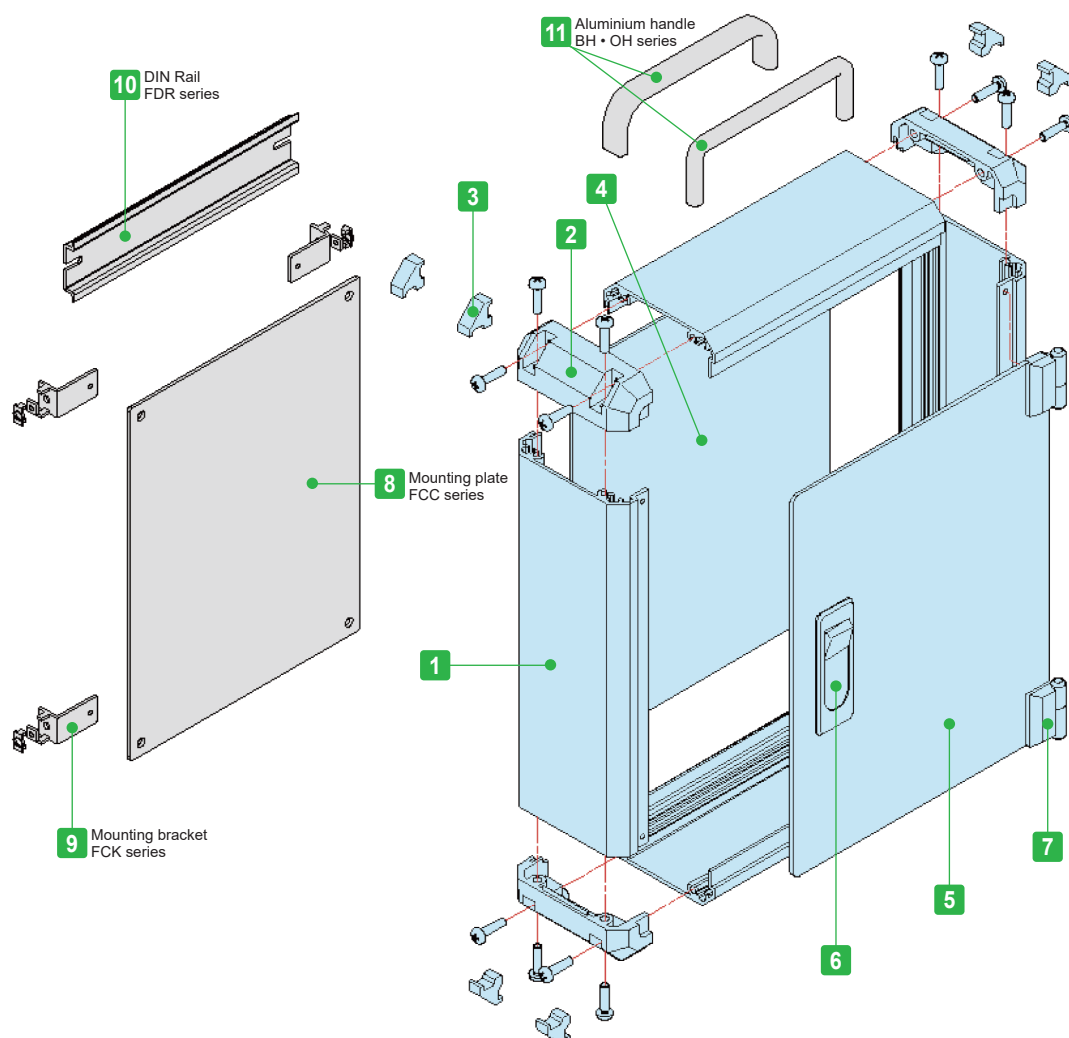
Custom width / length available



- Flexible frame width / length in 1mm intervals.
- No minimum order quantity and short lead time for small quantity order.

Assembly drawing

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws

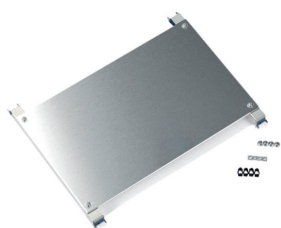
M4-15 pan head & Trivalent chromate x 16 pcs
 M3-5 pan head & Trivalent chromate x 2 pcs or 3 pcs
 M3-5 flat head & Trivalent chromate x 2 pcs or 3 pcs
 M4-8 slotted raised countersunk & Trivalent chromate x 2 pcs or 4 pcs
 M4-6 slotted raised countersunk & Trivalent chromate x 2 pcs or 4 pcs

Components

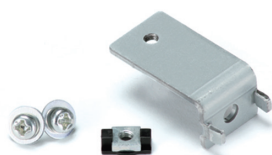
No.	Part name	Pcs	Material	Color / Finish
1	Frame	4	Extruded aluminium A6063S-T5	Silver / Anodized with clear coating
2	Corner block	4	ABS UL94HB	Light gray • Black
3	Blind plug	8	Elastomer	Light gray • Black
4	Slide panel	1	Aluminium A1100P	Silver / Anodized
5	Open-closing panel	1	Aluminium A1100P	Silver / Anodized
6	Flat handle	1 set	Diecast Zinc	Silver / Painted
7	Hinge	1 set	Diecast Zinc	Silver / Painted

■ Panels are covered with a protective film on one side.

Accessories (Optional parts)



8 Mounting plate FCC series
See page 351



9 Mounting bracket FCK series
See page 352

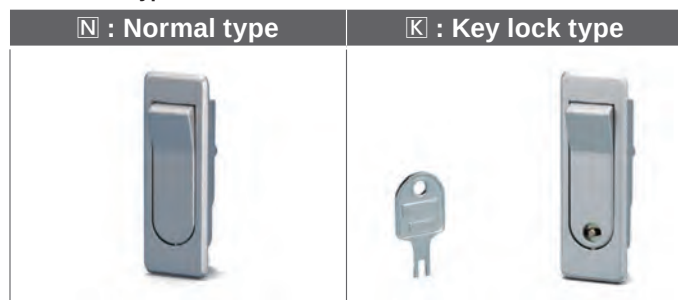


10 DIN Rail FDR series
See page 100



11 Aluminium handle BH • OH series
See website

Flat Handle Type



Color Type

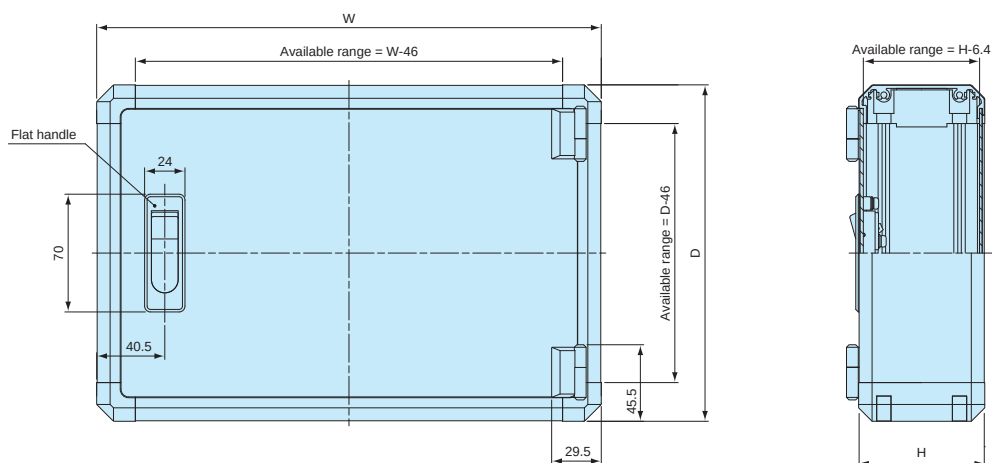


FCW dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

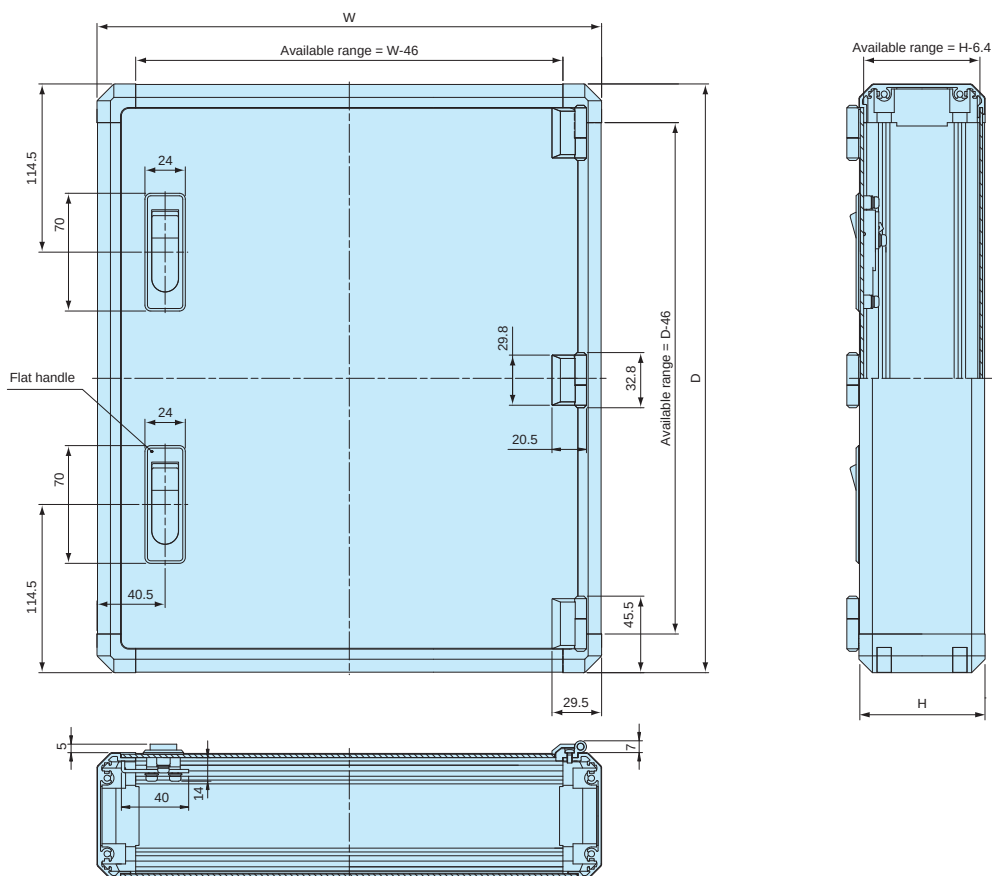
Handle - 1 pc / Hinge - 2 pcs type

Not applicable for FCW□-30-50, FCW□-40-50, and FCW□-40-60 models.



Handle - 2 pcs / Hinge - 3 pcs type

Applicable for FCW□-30-50, FCW□-40-50, and FCW□-40-60 models.



Specify your order with complete combination product number as per below

FCW 5 - 20 - 15Flat Handle Type
(N or K)Color Code
(GS or BS)**Product no. / Details**

Product no.	H	W	D	Weight (kg)	Flat handle / Hinge pcs
FCW5-15-20□□□	50.4	150	200	0.69	1 / 2
FCW5-15-25□□□	50.4	150	250	0.80	1 / 2
FCW5-20-15□□□	50.4	200	150	0.69	1 / 2
FCW5-20-20□□□	50.4	200	200	0.83	1 / 2
FCW5-20-25□□□	50.4	200	250	0.97	1 / 2
FCW5-20-30□□□	50.4	200	300	1.11	1 / 2
FCW5-25-25□□□	50.4	250	250	1.14	1 / 2
FCW5-25-30□□□	50.4	250	300	1.30	1 / 2
FCW5-25-40□□□	50.4	250	400	1.63	1 / 2
FCW5-30-20□□□	50.4	300	200	1.11	1 / 2
FCW5-30-30□□□	50.4	300	300	1.50	1 / 2
FCW5-30-40□□□	50.4	300	400	1.87	1 / 2
FCW5-30-50□□□	50.4	300	500	2.28	2 / 3
FCW5-35-25□□□	50.4	350	250	1.47	1 / 2
FCW5-40-30□□□	50.4	400	300	1.88	1 / 2
FCW5-40-40□□□	50.4	400	400	2.37	1 / 2
FCW5-40-50□□□	50.4	400	500	2.82	2 / 3
FCW5-40-60□□□	50.4	400	600	3.28	2 / 3
FCW6-15-20□□□	62.9	150	200	0.72	1 / 2
FCW6-15-25□□□	62.9	150	250	0.84	1 / 2
FCW6-20-15□□□	62.9	200	150	0.72	1 / 2
FCW6-20-20□□□	62.9	200	200	0.86	1 / 2
FCW6-20-25□□□	62.9	200	250	1.01	1 / 2
FCW6-20-30□□□	62.9	200	300	1.16	1 / 2
FCW6-25-25□□□	62.9	250	250	1.18	1 / 2
FCW6-25-30□□□	62.9	250	300	1.35	1 / 2
FCW6-25-40□□□	62.9	250	400	1.69	1 / 2
FCW6-30-20□□□	62.9	300	200	1.16	1 / 2
FCW6-30-30□□□	62.9	300	300	1.55	1 / 2
FCW6-30-40□□□	62.9	300	400	1.93	1 / 2
FCW6-30-50□□□	62.9	300	500	2.35	2 / 3
FCW6-35-25□□□	62.9	350	250	1.46	1 / 2
FCW6-40-30□□□	62.9	400	300	1.94	1 / 2
FCW6-40-40□□□	62.9	400	400	2.44	1 / 2
FCW6-40-50□□□	62.9	400	500	2.94	2 / 3
FCW6-40-60□□□	62.9	400	600	3.36	2 / 3
FCW8-15-20□□□	75.4	150	200	0.76	1 / 2
FCW8-15-25□□□	75.4	150	250	0.88	1 / 2
FCW8-20-15□□□	75.4	200	150	0.76	1 / 2
FCW8-20-20□□□	75.4	200	200	0.91	1 / 2
FCW8-20-25□□□	75.4	200	250	1.06	1 / 2
FCW8-20-30□□□	75.4	200	300	1.21	1 / 2
FCW8-25-25□□□	75.4	250	250	1.24	1 / 2
FCW8-25-30□□□	75.4	250	300	1.41	1 / 2
FCW8-25-40□□□	75.4	250	400	1.76	1 / 2
FCW8-30-20□□□	75.4	300	200	1.21	1 / 2
FCW8-30-30□□□	75.4	300	300	1.62	1 / 2
FCW8-30-40□□□	75.4	300	400	2.02	1 / 2
FCW8-30-50□□□	75.4	300	500	2.44	2 / 3
FCW8-35-25□□□	75.4	350	250	1.59	1 / 2
FCW8-40-30□□□	75.4	400	300	2.02	1 / 2
FCW8-40-40□□□	75.4	400	400	2.53	1 / 2
FCW8-40-50□□□	75.4	400	500	3.05	2 / 3
FCW8-40-60□□□	75.4	400	600	3.47	2 / 3

Product no.	H	W	D	Weight (kg)	Flat handle / Hinge pcs
FCW10-15-20□□□	100.4	150	200	0.83	1 / 2
FCW10-15-25□□□	100.4	150	250	0.97	1 / 2
FCW10-20-15□□□	100.4	200	150	0.83	1 / 2
FCW10-20-20□□□	100.4	200	200	1.00	1 / 2
FCW10-20-25□□□	100.4	200	250	1.17	1 / 2
FCW10-20-30□□□	100.4	200	300	1.33	1 / 2
FCW10-25-25□□□	100.4	250	250	1.36	1 / 2
FCW10-25-30□□□	100.4	250	300	1.55	1 / 2
FCW10-25-40□□□	100.4	250	400	1.93	1 / 2
FCW10-30-20□□□	100.4	300	200	1.34	1 / 2
FCW10-30-30□□□	100.4	300	300	1.77	1 / 2
FCW10-30-40□□□	100.4	300	400	2.20	1 / 2
FCW10-30-50□□□	100.4	300	500	2.64	2 / 3
FCW10-35-25□□□	100.4	350	250	1.74	1 / 2
FCW10-40-30□□□	100.4	400	300	2.21	1 / 2
FCW10-40-40□□□	100.4	400	400	2.74	1 / 2
FCW10-40-50□□□	100.4	400	500	3.27	2 / 3
FCW10-40-60□□□	100.4	400	600	3.71	2 / 3
FCW13-15-20□□□	125.4	150	200	0.89	1 / 2
FCW13-15-25□□□	125.4	150	250	1.04	1 / 2
FCW13-20-15□□□	125.4	200	150	0.89	1 / 2
FCW13-20-20□□□	125.4	200	200	1.06	1 / 2
FCW13-20-25□□□	125.4	200	250	1.32	1 / 2
FCW13-20-30□□□	125.4	200	300	1.41	1 / 2
FCW13-25-25□□□	125.4	250	250	1.44	1 / 2
FCW13-25-30□□□	125.4	250	300	1.63	1 / 2
FCW13-25-40□□□	125.4	250	400	2.02	1 / 2
FCW13-30-20□□□	125.4	300	200	1.41	1 / 2
FCW13-30-30□□□	125.4	300	300	1.94	1 / 2
FCW13-30-40□□□	125.4	300	400	2.30	1 / 2
FCW13-30-50□□□	125.4	300	500	2.74	2 / 3
FCW13-35-25□□□	125.4	350	250	1.83	1 / 2
FCW13-40-30□□□	125.4	400	300	2.30	1 / 2
FCW13-40-40□□□	125.4	400	400	2.86	1 / 2
FCW13-40-50□□□	125.4	400	500	3.39	2 / 3
FCW13-40-60□□□	125.4	400	600	3.84	2 / 3
FCW15-15-20□□□	150.4	150	200	0.96	1 / 2
FCW15-15-25□□□	150.4	150	250	1.07	1 / 2
FCW15-20-15□□□	150.4	200	150	0.91	1 / 2
FCW15-20-20□□□	150.4	200	200	1.18	1 / 2
FCW15-20-25□□□	150.4	200	250	1.37	1 / 2
FCW15-20-30□□□	150.4	200	300	1.57	1 / 2
FCW15-25-25□□□	150.4	250	250	1.59	1 / 2
FCW15-25-30□□□	150.4	250	300	1.80	1 / 2
FCW15-25-40□□□	150.4	250	400	2.23	1 / 2
FCW15-30-20□□□	150.4	300	200	1.57	1 / 2
FCW15-30-30□□□	150.4	300	300	2.05	1 / 2
FCW15-30-40□□□	150.4	300	400	2.53	1 / 2
FCW15-30-50□□□	150.4	300	500	2.99	2 / 3
FCW15-35-25□□□	150.4	350	250	2.02	1 / 2
FCW15-40-30□□□	150.4	400	300	2.53	1 / 2
FCW15-40-40□□□	150.4	400	400	3.12	1 / 2
FCW15-40-50□□□	150.4	400	500	3.68	2 / 3
FCW15-40-60□□□	150.4	400	600	4.14	2 / 3

FC series ALUMINIUM CONTROL BOX

FC and FCW series are applicable for various purposes such as control and switch box, touch panel display, monitor box, and more.

APPLICATION EXAMPLE

Ultrasonic Flow Detector



Coil Winding Machine



Remote Control Logger



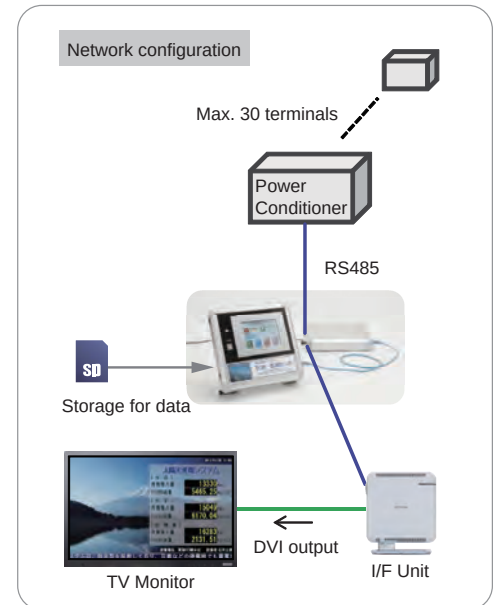
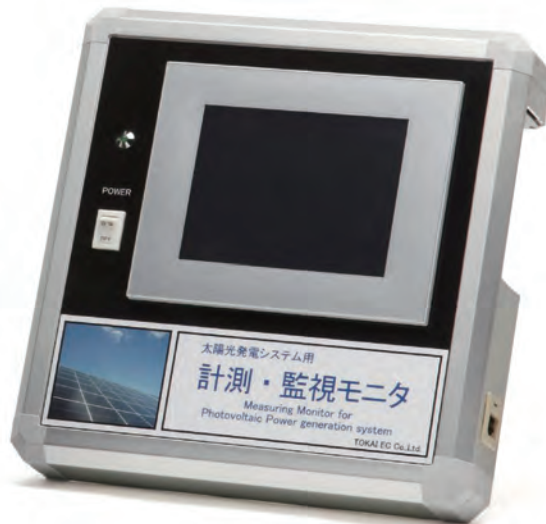
Streaming Video Provider



Linux Data Logger



Solar Monitoring System



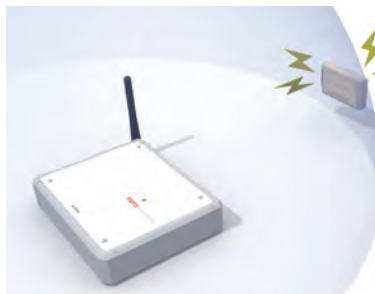
4 Channel Edge Node



Active RFID Tag Reader • Trigger



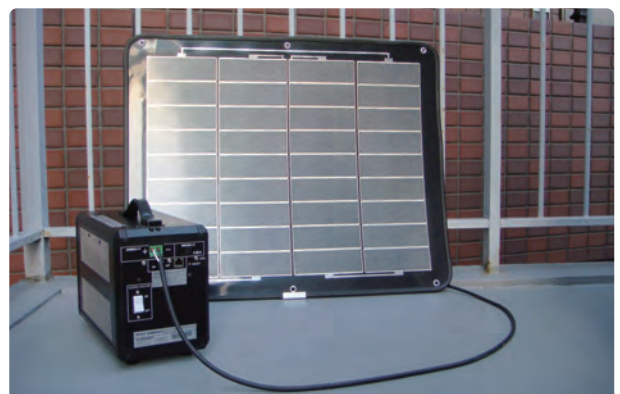
Hands-free type



Touch type



Compact Solar Power Supply



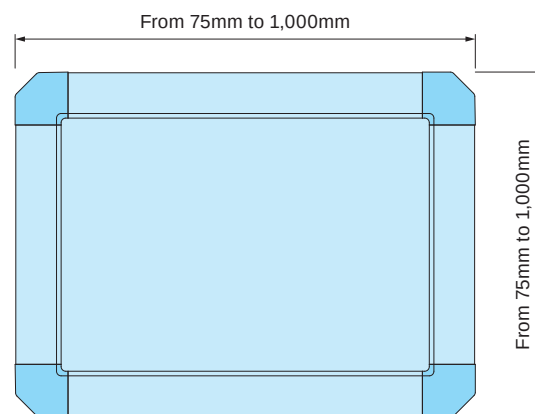


Technical Data

Protection class : IP40

- 175 different sizes in 4 different color variations available.
- Simple designed aluminium utility box composed of extruded aluminium frames, aluminium panels and ABS corner joints.
- Suitable for touch panel display, industrial control equipment, and various other devices.

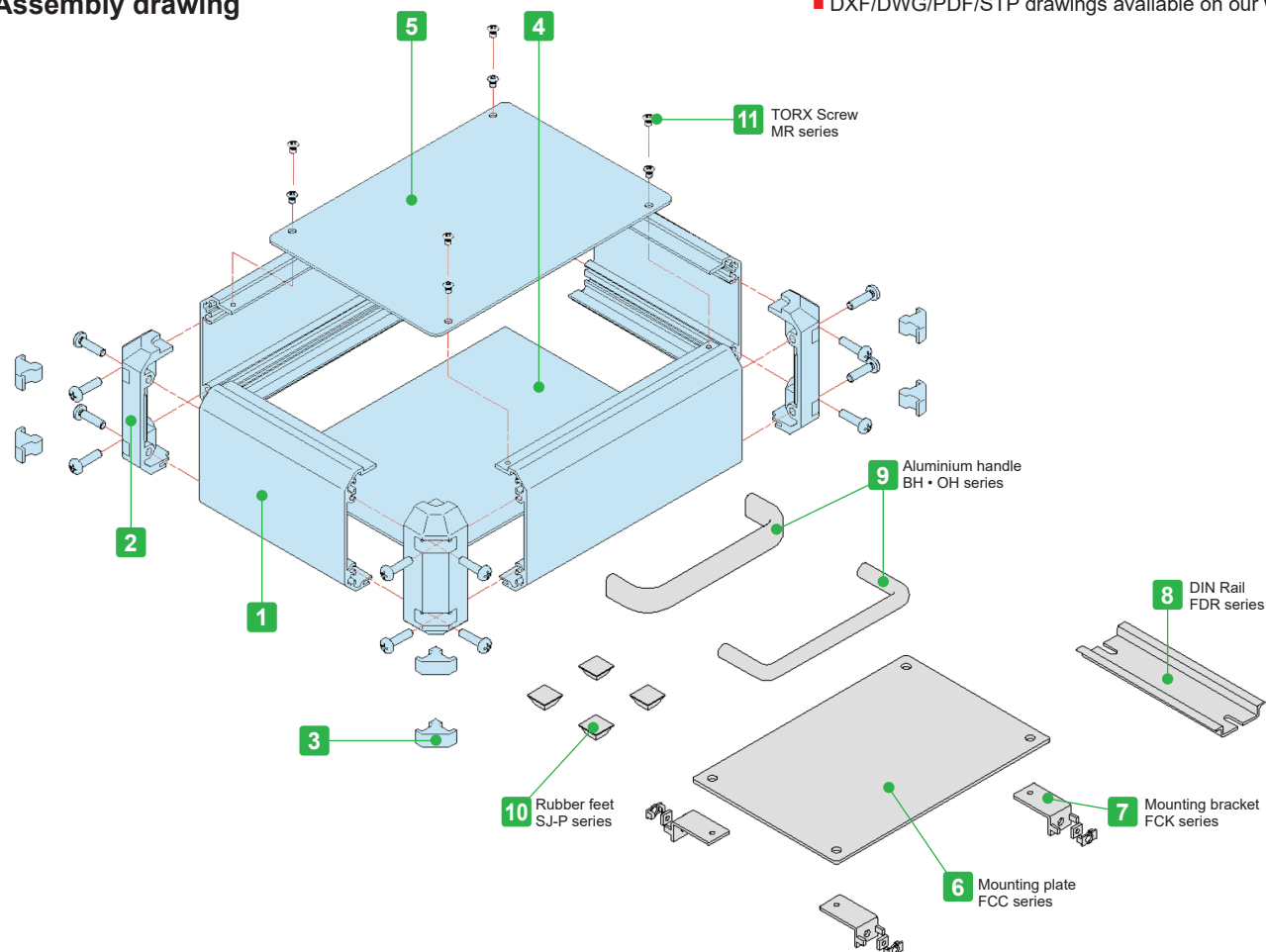
Custom width / length available in 1mm intervals



- Flexible frame width / length from 75mm to 1,000mm in 1mm intervals.
- No minimum order quantity and short lead time for small quantity order.

Assembly drawing

■ DXF/DWG/PDF/STP drawings available on our website.



Included screws

M4-15 pan head & Trivalent chromate x 16 pcs

(M3-15 for FC4 models)

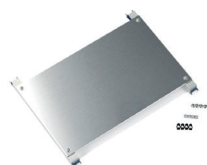
M3-5 original trapezoid head (plus) & Nickel plated / Black trivalent chromate x 8 pcs

Components

No.	Part name	Pcs	Material	Color / Finish
1	Frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
2	Corner block	4	ABS UL94HB	Light gray • Black
3	Blind plug	8	Elastomer	Light gray • Black
4	Slide panel	1	Aluminium A1100P	Silver / Anodized • Black / Painted
5	Screwed panel	1	Aluminium A1100P	Silver / Anodized • Black / Painted

■ Panels are covered with a protective film on one side.

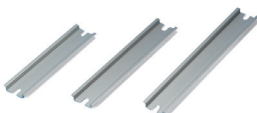
Accessories (Optional parts)



6 Mounting plate FCC series
See page 351



7 Mounting bracket FCK series
See page 352



8 DIN Rail FDR series
See page 100



9 Aluminium handle BH • OH series
See website



10 Rubber feet SJ-P series
See website



11 TORX screw MR3-5Z
See page 398



Wall mount support arm MAR series
See page 273 ~ 274

Color Type

G S		B S		B X		B B	
							
Panel	Silver	Panel	Silver	Panel	Silver	Panel	Black
Frame	Silver	Frame	Silver	Frame	Black	Frame	Black
Corner	Light gray	Corner	Black	Corner	Black	Corner	Black

Product no. / Details

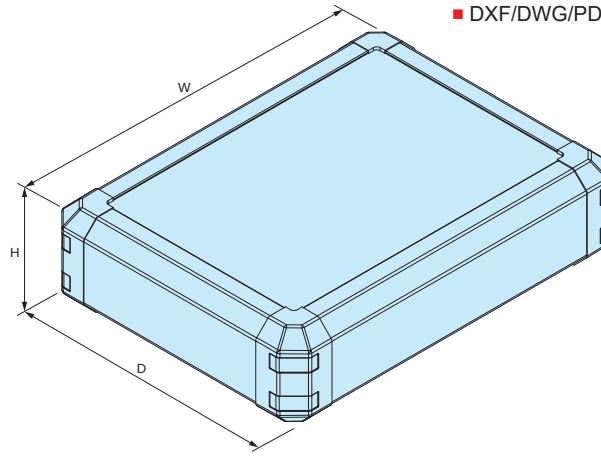
■ Please suffix color code at the end of the product number.

Product no.	H	W	D	Weight (kg)	Panel mount screw pcs
FC4- 9- 9□□	37.9	90	90	0.17	4
FC4-14- 9□□	37.9	140	90	0.24	4
FC4-14-14□□	37.9	140	140	0.33	4
FC4-19- 9□□	37.9	190	90	0.31	4
FC4-19-14□□	37.9	190	140	0.50	4
FC4-19-19□□	37.9	190	190	0.53	4
FC4-24-14□□	37.9	240	140	0.51	4
FC4-24-19□□	37.9	240	190	0.64	4
FC4-24-24□□	37.9	240	240	0.78	4
FC4-29-14□□	37.9	290	140	0.60	4
FC4-29-19□□	37.9	290	190	0.75	4
FC4-29-24□□	37.9	290	240	0.91	4
FC4-29-29□□	37.9	290	290	1.07	4
FC4-34-19□□	37.9	340	190	0.87	4
FC4-34-24□□	37.9	340	240	1.04	4
FC4-34-29□□	37.9	340	290	0.94	4
FC4-39-19□□	37.9	390	190	0.97	6
FC4-39-24□□	37.9	390	240	1.17	6
FC4-39-29□□	37.9	390	290	1.37	6
FC4-39-39□□	37.9	390	390	1.77	8
FC4-49-24□□	37.9	490	240	1.39	6
FC4-49-29□□	37.9	490	290	1.64	6
FC4-49-39□□	37.9	490	390	2.12	8
FC4-59-29□□	37.9	590	290	1.92	6
FC4-59-39□□	37.9	590	390	2.46	8
FC5-10-10□□	50.4	100	100	0.24	4
FC5-15-10□□	50.4	150	100	0.33	4
FC5-15-15□□	50.4	150	150	0.44	4
FC5-20-10□□	50.4	200	100	0.42	4
FC5-20-15□□	50.4	200	150	0.55	4
FC5-20-20□□	50.4	200	200	0.68	4
FC5-25-15□□	50.4	250	150	0.66	4
FC5-25-20□□	50.4	250	200	0.81	4
FC5-25-25□□	50.4	250	250	0.97	4
FC5-30-15□□	50.4	300	150	0.77	4
FC5-30-20□□	50.4	300	200	0.94	4
FC5-30-25□□	50.4	300	250	1.11	4
FC5-30-30□□	50.4	300	300	1.29	4
FC5-35-20□□	50.4	350	200	1.07	4
FC5-35-25□□	50.4	350	250	1.26	4
FC5-35-30□□	50.4	350	300	1.46	4
FC5-40-20□□	50.4	400	200	1.20	6
FC5-40-25□□	50.4	400	250	1.42	6
FC5-40-30□□	50.4	400	300	1.64	6

Product no.	H	W	D	Weight (kg)	Panel mount screw pcs
FC5-40-40□□	50.4	400	400	2.07	8
FC5-50-25□□	50.4	500	250	1.66	6
FC5-50-30□□	50.4	500	300	1.92	6
FC5-50-40□□	50.4	500	400	2.44	8
FC5-60-30□□	50.4	600	300	2.22	6
FC5-60-40□□	50.4	600	400	2.81	8
FC6-10-10□□	62.9	100	100	0.26	4
FC6-15-10□□	62.9	150	100	0.35	4
FC6-15-15□□	62.9	150	150	0.47	4
FC6-20-10□□	62.9	200	100	0.45	4
FC6-20-15□□	62.9	200	150	0.58	4
FC6-20-20□□	62.9	200	200	0.72	4
FC6-25-15□□	62.9	250	150	0.70	4
FC6-25-20□□	62.9	250	200	0.85	4
FC6-25-25□□	62.9	250	250	1.01	4
FC6-30-15□□	62.9	300	150	0.81	4
FC6-30-20□□	62.9	300	200	0.99	4
FC6-30-25□□	62.9	300	250	1.16	4
FC6-30-30□□	62.9	300	300	1.35	4
FC6-35-20□□	62.9	350	200	1.12	4
FC6-35-25□□	62.9	350	250	1.32	4
FC6-35-30□□	62.9	350	300	1.52	4
FC6-40-20□□	62.9	400	200	1.25	6
FC6-40-25□□	62.9	400	250	1.47	6
FC6-40-30□□	62.9	400	300	1.70	6
FC6-40-40□□	62.9	400	400	2.15	8
FC6-50-25□□	62.9	500	250	1.72	6
FC6-50-30□□	62.9	500	300	1.99	6
FC6-50-40□□	62.9	500	400	2.52	8
FC6-60-30□□	62.9	600	300	2.29	6
FC6-60-40□□	62.9	600	400	2.43	8
FC8-10-10□□	75.4	100	100	0.28	4
FC8-15-10□□	75.4	150	100	0.38	4
FC8-15-15□□	75.4	150	150	0.50	4
FC8-20-10□□	75.4	200	100	0.48	4
FC8-20-15□□	75.4	200	150	0.62	4
FC8-20-20□□	75.4	200	200	0.76	4
FC8-25-15□□	75.4	250	150	0.74	4
FC8-25-20□□	75.4	250	200	0.90	4
FC8-25-25□□	75.4	250	250	1.07	4
FC8-30-15□□	75.4	300	150	0.86	4
FC8-30-20□□	75.4	300	200	1.04	4
FC8-30-25□□	75.4	300	250	1.23	4
FC8-30-30□□	75.4	300	300	1.42	4

FC dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

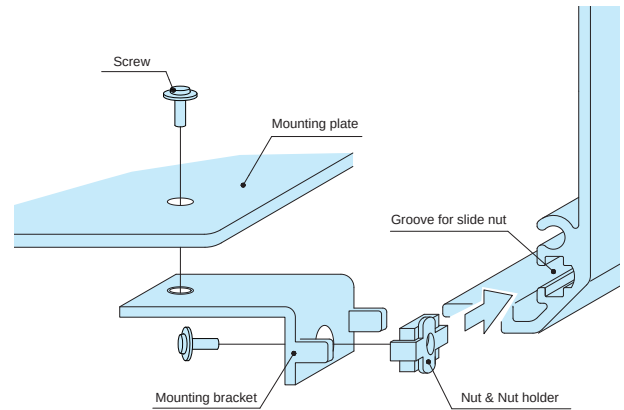
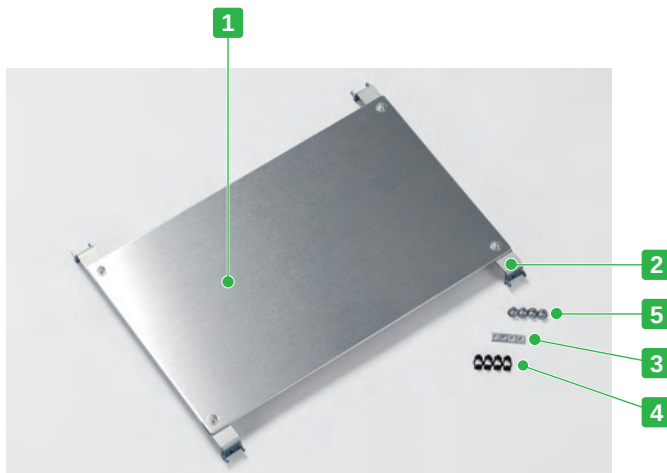


Product no.	H	W	D	Weight (kg)	Panel mount screw pcs
FC 8-35-20□□	75.4	350	200	1.19	4
FC 8-35-25□□	75.4	350	250	1.39	4
FC 8-35-30□□	75.4	350	300	1.51	4
FC 8-40-20□□	75.4	400	200	1.32	6
FC 8-40-25□□	75.4	400	250	1.46	6
FC 8-40-30□□	75.4	400	300	1.78	6
FC 8-40-40□□	75.4	400	400	2.24	8
FC 8-50-25□□	75.4	500	250	1.81	6
FC 8-50-30□□	75.4	500	300	2.08	6
FC 8-50-40□□	75.4	500	400	2.62	8
FC 8-60-30□□	75.4	600	300	2.39	6
FC 8-60-40□□	75.4	600	400	3.00	8
FC10-10-10□□	100.4	100	100	0.31	4
FC10-15-10□□	100.4	150	100	0.43	4
FC10-15-15□□	100.4	150	150	0.56	4
FC10-20-10□□	100.4	200	100	0.54	4
FC10-20-15□□	100.4	200	150	0.70	4
FC10-20-20□□	100.4	200	200	0.85	4
FC10-25-15□□	100.4	250	150	0.83	4
FC10-25-20□□	100.4	250	200	1.01	4
FC10-25-25□□	100.4	250	250	1.19	4
FC10-30-15□□	100.4	300	150	0.97	4
FC10-30-20□□	100.4	300	200	1.16	4
FC10-30-25□□	100.4	300	250	1.36	4
FC10-30-30□□	100.4	300	300	1.57	4
FC10-35-20□□	100.4	350	200	1.32	4
FC10-35-25□□	100.4	350	250	1.54	4
FC10-35-30□□	100.4	350	300	1.77	4
FC10-40-20□□	100.4	400	200	1.47	6
FC10-40-25□□	100.4	400	250	1.72	6
FC10-40-30□□	100.4	400	300	1.96	6
FC10-40-40□□	100.4	400	400	2.45	8
FC10-50-25□□	100.4	500	250	1.99	6
FC10-50-30□□	100.4	500	300	2.27	6
FC10-50-40□□	100.4	500	400	2.84	8
FC10-60-30□□	100.4	600	300	2.60	6
FC10-60-40□□	100.4	600	400	2.70	8
FC13-10-10□□	125.4	100	100	0.35	4
FC13-15-10□□	125.4	150	100	0.47	4
FC13-15-15□□	125.4	150	150	0.61	4
FC13-20-10□□	125.4	200	100	0.59	4
FC13-20-15□□	125.4	200	150	0.75	4
FC13-20-20□□	125.4	200	200	0.92	4
FC13-25-15□□	125.4	250	150	0.90	4

Product no.	H	W	D	Weight (kg)	Panel mount screw pcs
FC13-25-20□□	125.4	250	200	1.08	4
FC13-25-25□□	125.4	250	250	1.27	4
FC13-30-15□□	125.4	300	150	1.04	4
FC13-30-20□□	125.4	300	200	1.24	4
FC13-30-25□□	125.4	300	250	1.44	4
FC13-30-30□□	125.4	300	300	1.66	4
FC13-35-20□□	125.4	350	200	1.40	4
FC13-35-25□□	125.4	350	250	1.63	4
FC13-35-30□□	125.4	350	300	1.86	4
FC13-40-20□□	125.4	400	200	1.56	6
FC13-40-25□□	125.4	400	250	1.81	6
FC13-40-30□□	125.4	400	300	2.06	6
FC13-40-40□□	125.4	400	400	2.56	8
FC13-50-25□□	125.4	500	250	2.09	6
FC13-50-30□□	125.4	500	300	2.38	6
FC13-50-40□□	125.4	500	400	2.96	8
FC13-60-30□□	125.4	600	300	2.89	6
FC13-60-40□□	125.4	600	400	3.36	8
FC15-10-10□□	150.4	100	100	0.40	4
FC15-15-10□□	150.4	150	100	0.54	4
FC15-15-15□□	150.4	150	150	0.70	4
FC15-20-10□□	150.4	200	100	0.68	4
FC15-20-15□□	150.4	200	150	0.85	4
FC15-20-20□□	150.4	200	200	1.04	4
FC15-25-15□□	150.4	250	150	1.02	4
FC15-25-20□□	150.4	250	200	1.22	4
FC15-25-25□□	150.4	250	250	1.42	4
FC15-30-15□□	150.4	300	150	1.17	4
FC15-30-20□□	150.4	300	200	1.40	4
FC15-30-25□□	150.4	300	250	1.62	4
FC15-30-30□□	150.4	300	300	1.85	4
FC15-35-20□□	150.4	350	200	1.58	4
FC15-35-25□□	150.4	350	250	1.82	4
FC15-35-30□□	150.4	350	300	2.07	4
FC15-40-20□□	150.4	400	200	1.76	6
FC15-40-25□□	150.4	400	250	2.02	6
FC15-40-30□□	150.4	400	300	2.29	6
FC15-40-40□□	150.4	400	400	2.83	8
FC15-50-25□□	150.4	500	250	2.32	6
FC15-50-30□□	150.4	500	300	2.63	6
FC15-50-40□□	150.4	500	400	3.25	8
FC15-60-30□□	150.4	600	300	2.98	6
FC15-60-40□□	150.4	600	400	3.66	8

FCC series

MOUNTING PLATE for FC • FCW



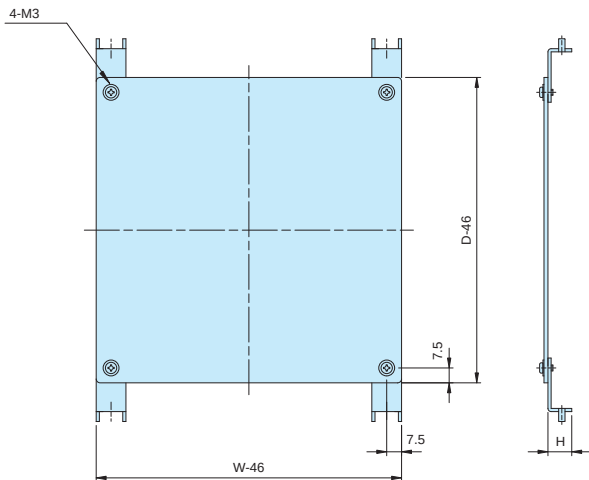
How to assemble

- ① Slide a M3 nut and nut holder into the groove on the frame.
- ② Screw the mounting bracket into the nut holder.
- ③ Screw the mounting plate onto the mounting bracket.

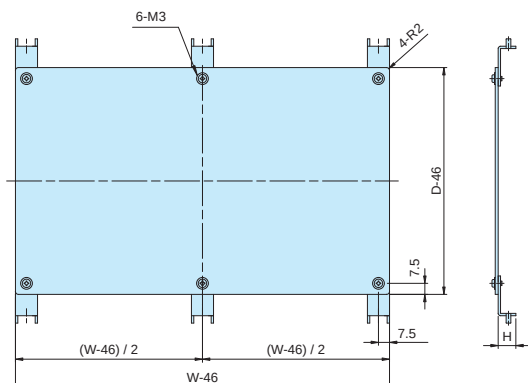
- The mounting bracket comes in 2 different height versions, 12mm and 22mm.
- Use 22mm height version when set on the open/close panel side of FCW series.
- Not suitable for FC4 (H = 37.9mm)
- Mounting brackets (FCK) are included with FCC series.

FCC drawings

For box size (W x D or D x W) 100 x 100mm to 350 x 300mm



For box size (W x D or D x W) 400/500/600 x 200/250/300 mm



Components

No.	Part name	Material	Color / Finish
1	Mounting plate	Aluminium A1050P t=2.0	Unfinished
2	Mounting bracket	Steel SECC t=1.6	Zinc coated
3	M3 nut	Steel SPCC t=1.6	Trivalent chromate
4	Nut holder	POM	Black
5	Screw M3-6 pan head	Steel	Trivalent chromate

Product no. / Details

Product no.	H	Box W x D or D x W	Product no.	H	Box W x D or D x W
FCC10-10-1	12	100 × 100	FCC10-10-2	22	100 × 100
FCC15-10-1	12	150 × 100	FCC15-10-2	22	150 × 100
FCC15-15-1	12	150 × 150	FCC15-15-2	22	150 × 150
FCC20-10-1	12	200 × 100	FCC20-10-2	22	200 × 100
FCC20-15-1	12	200 × 150	FCC20-15-2	22	200 × 150
FCC20-20-1	12	200 × 200	FCC20-20-2	22	200 × 200
FCC25-15-1	12	250 × 150	FCC25-15-2	22	250 × 150
FCC25-20-1	12	250 × 200	FCC25-20-2	22	250 × 200
FCC25-25-1	12	250 × 250	FCC25-25-2	22	250 × 250
FCC30-15-1	12	300 × 150	FCC30-15-2	22	300 × 150
FCC30-20-1	12	300 × 200	FCC30-20-2	22	300 × 200
FCC30-25-1	12	300 × 250	FCC30-25-2	22	300 × 250
FCC30-30-1	12	300 × 300	FCC30-30-2	22	300 × 300
FCC35-20-1	12	350 × 200	FCC35-20-2	22	350 × 200
FCC35-25-1	12	350 × 250	FCC35-25-2	22	350 × 250
FCC35-30-1	12	350 × 300	FCC35-30-2	22	350 × 300

Included screws: M3-6 pan head trivalent chromate with flat washer x 8 pcs

Product no. / Details

Product no.	H	Box W x D or D x W	Product no.	H	Box W x D or D x W
FCC40-20-1	12	400 × 200	FCC40-20-2	22	400 × 200
FCC40-25-1	12	400 × 250	FCC40-25-2	22	400 × 250
FCC40-30-1	12	400 × 300	FCC40-30-2	22	400 × 300
FCC50-25-1	12	500 × 250	FCC50-25-2	22	500 × 250
FCC50-30-1	12	500 × 300	FCC50-30-2	22	500 × 300
FCC60-30-1	12	600 × 300	FCC60-30-2	22	600 × 300

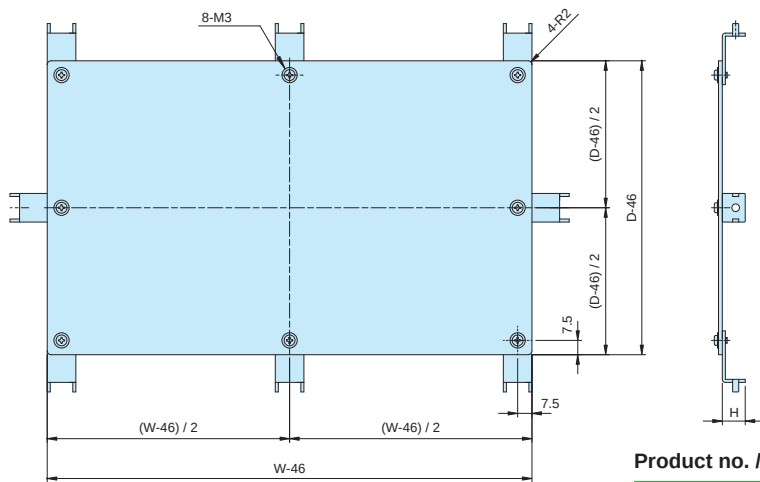
Included screws: M3-6 pan head trivalent chromate with flat washer x 12 pcs

■ DXF/DWG/PDF/STP drawings available on our website.

FCC drawings

■ DXF/DWG/PDF/STP drawings available on our website.

For box size (W x D or D x W) 400/500/600 x 400mm



Product no. / Details

Product no.	H	Box W x D or D x W	Product no.	H	Box W x D or D x W
FCC40-40-1	12	400 × 400	FCC40-40-2	22	400 × 400
FCC50-40-1	12	500 × 400	FCC50-40-2	22	500 × 400
FCC60-40-1	12	600 × 400	FCC60-40-2	22	600 × 400

Included screws: M3-6 pan head trivalent chromate with flat washer x 16 pcs

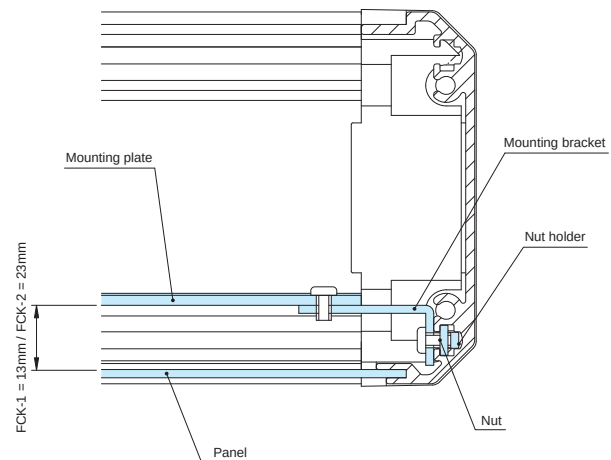
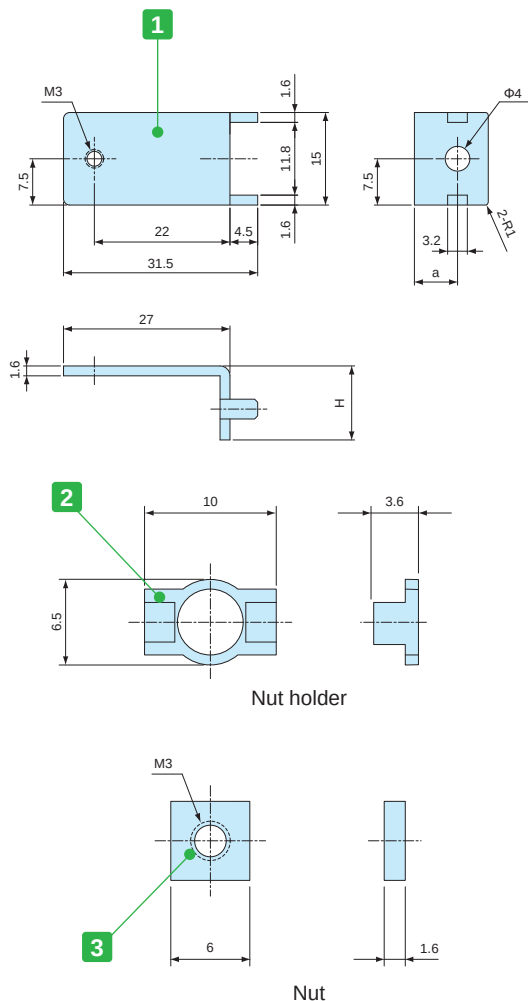
Accessories (Optional parts)

FCK series

MOUNTING BRACKET

FCK drawings

■ DXF/DWG/PDF drawings available on our website.



- 2 mounting brackets for PCB or DIN-Rail.
- FCK mounting bracket comes with FCC mounting plate.
Additional FCK is not required when purchasing FCC series.
- Not suitable for FC4 (H = 37.9mm).

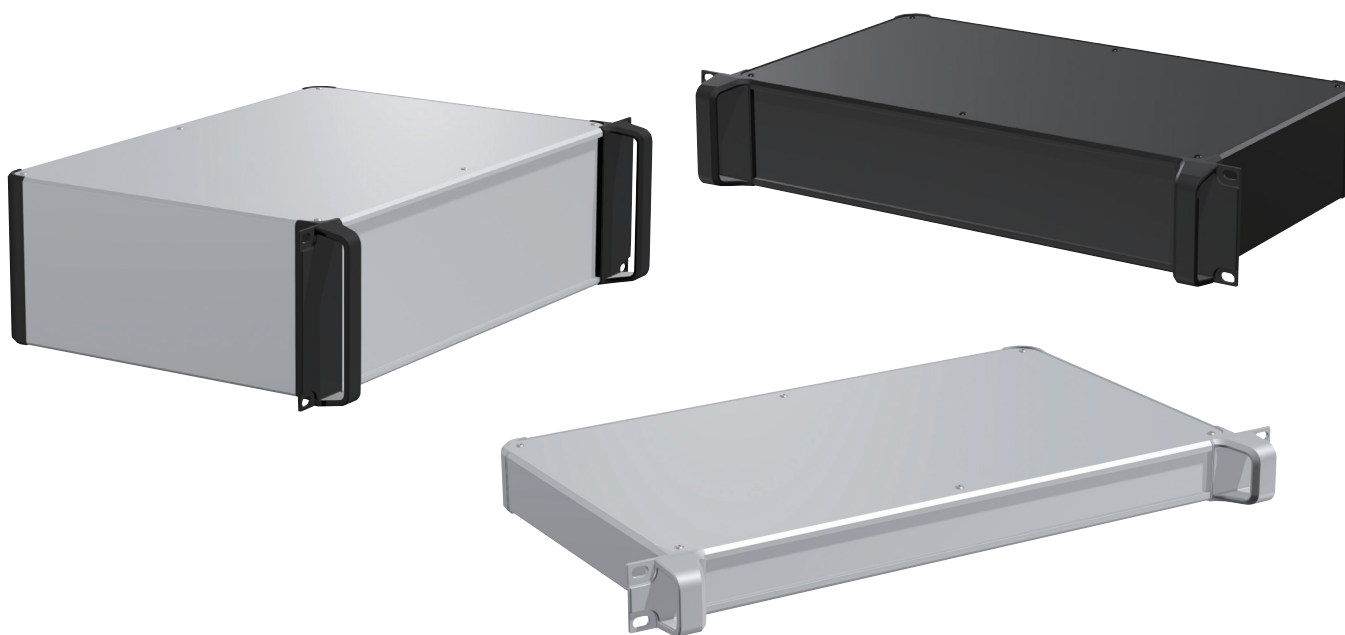
Components

No.	Part name	Material	Color / Finish
1	Mounting bracket	Steel SECC t=1.6	Zinc coated
2	Nut holder	POM	Black
3	M3 nut	Steel SPCC t=1.6	Trivalent chromate

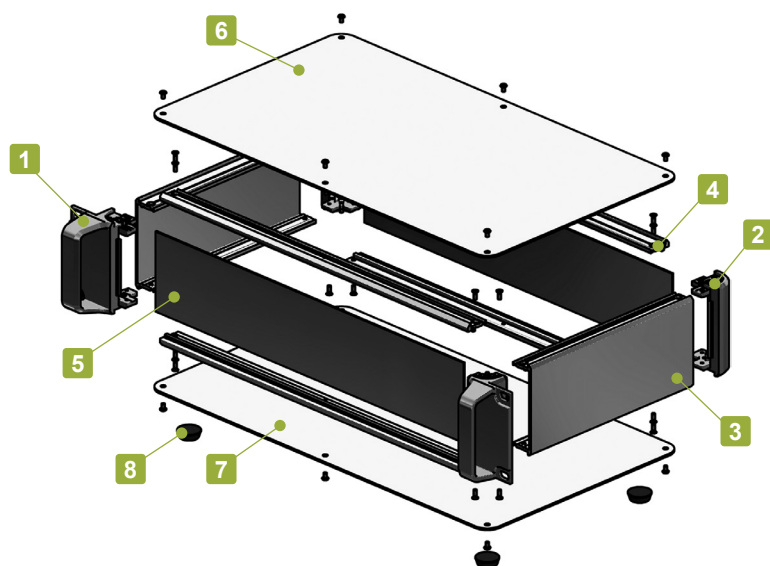
Product no. / Details

Product no.	H	a	Pack of
FCK-1	12	7	10
FCK-2	22	17	10

Included screws: M3-6 pan head trivalent chromate with flat washer x 20 pcs



- 19" rack mount enclosure with insertion type front/rear panels, giving it a beautiful appearance.
- A large selection of 35 different sizes in 4 different colors to choose from.
- Suitable for use as audio/visual equipment, communication equipment, rack mount computers, measuring instruments and more.

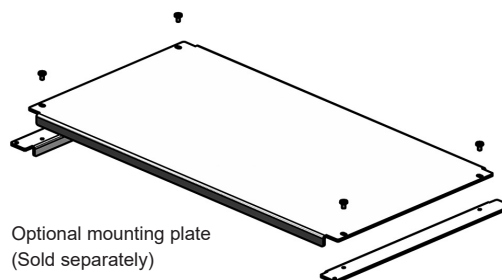


Included screws

- Top / Bottom cover
M3-5 original trapezoid head & Nickel plated x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs

Recommended torque : 0.3 ~ 0.6N • m

* Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

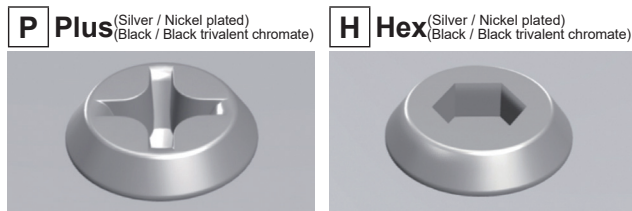
Optional mounting plate
(Sold separately)

Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle Corner Block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
3	Frame	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
4	Panel support frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized with clear coating
5	Panel	2	Aluminium A1100P	Silver • Black / Anodized
6	Top cover	1	Aluminium A1100P	Silver • Black / Anodized
7	Bottom cover	1	Aluminium A1100P	Silver • Black / Anodized
8	Rubber feet	4	Synthetic rubber	Black

To select Screw and Color, follow steps **1** ~ **2** below to determine product number.

1 Screw

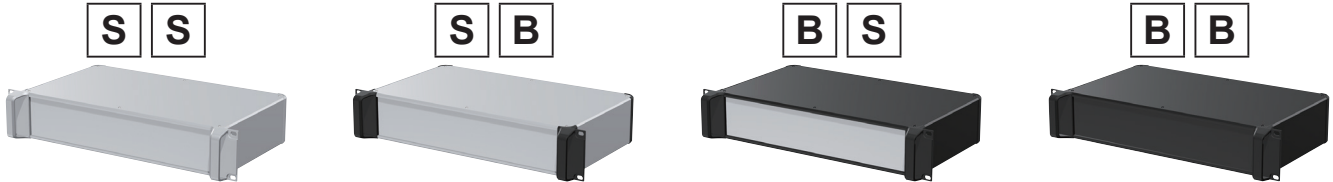


*Color of screw will be the same as top • bottom cover color.

Hex wrench included.

2 Color

Please choose from the color combinations listed below.



Product Number

To determine a product number, fill H-W-D dimensions and select Screw and Color code in the following blank boxes.

AUR - -

H-W-D dimensions

See below for dimensions / product no.

-

Screw

(P or H)

Color

(SS • SB • BS • BB)

Numbering example : If looking at "H88 x W430 x D250mm, Screw type H, Color type BS"

➔ **AUR 88-43-25 H-BS**

Product no. / Details

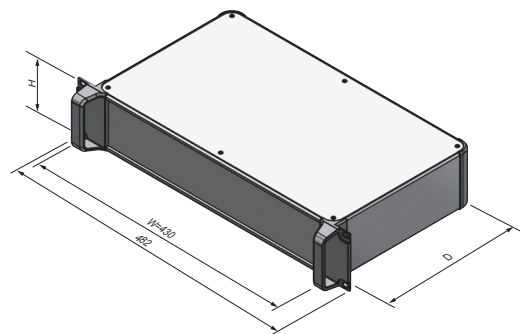
■ Please suffix screw and color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUR 44-43-16□-□□	44	430	160	1.5
AUR 44-43-20□-□□	44	430	200	1.8
AUR 44-43-25□-□□	44	430	250	2.0
AUR 44-43-30□-□□	44	430	300	2.3
AUR 44-43-36□-□□	44	430	360	2.7
AUR 44-43-43□-□□	44	430	430	3.1
AUR 44-43-50□-□□	44	430	500	3.5
AUR 88-43-16□-□□	88	430	160	1.9
AUR 88-43-20□-□□	88	430	200	2.1
AUR 88-43-25□-□□	88	430	250	2.5
AUR 88-43-30□-□□	88	430	300	2.8
AUR 88-43-36□-□□	88	430	360	3.2
AUR 88-43-43□-□□	88	430	430	3.6
AUR 88-43-50□-□□	88	430	500	4.1
AUR133-43-16□-□□	132.5	430	160	2.3
AUR133-43-20□-□□	132.5	430	200	2.6
AUR133-43-25□-□□	132.5	430	250	2.9
AUR133-43-30□-□□	132.5	430	300	3.3
AUR133-43-36□-□□	132.5	430	360	3.7
AUR133-43-43□-□□	132.5	430	430	4.2
AUR133-43-50□-□□	132.5	430	500	4.7
AUR177-43-16□-□□	177	430	160	2.6
AUR177-43-20□-□□	177	430	200	2.9
AUR177-43-25□-□□	177	430	250	3.3
AUR177-43-30□-□□	177	430	300	3.7
AUR177-43-36□-□□	177	430	360	4.2
AUR177-43-43□-□□	177	430	430	4.7
AUR177-43-50□-□□	177	430	500	5.3

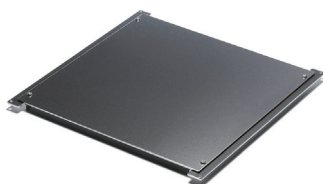
Product no.	H	W	D	Weight (kg)
AUR222-43-16□-□□	221.5	431	161	2.9
AUR222-43-20□-□□	221.5	431	201	3.3
AUR222-43-25□-□□	221.5	431	251	3.7
AUR222-43-30□-□□	221.5	431	301	4.1
AUR222-43-36□-□□	221.5	431	361	4.7
AUR222-43-43□-□□	221.5	431	431	5.3
AUR222-43-50□-□□	221.5	431	501	5.9

AUR dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Accessories (Optional parts)



Mounting plate AUC series
See page 340



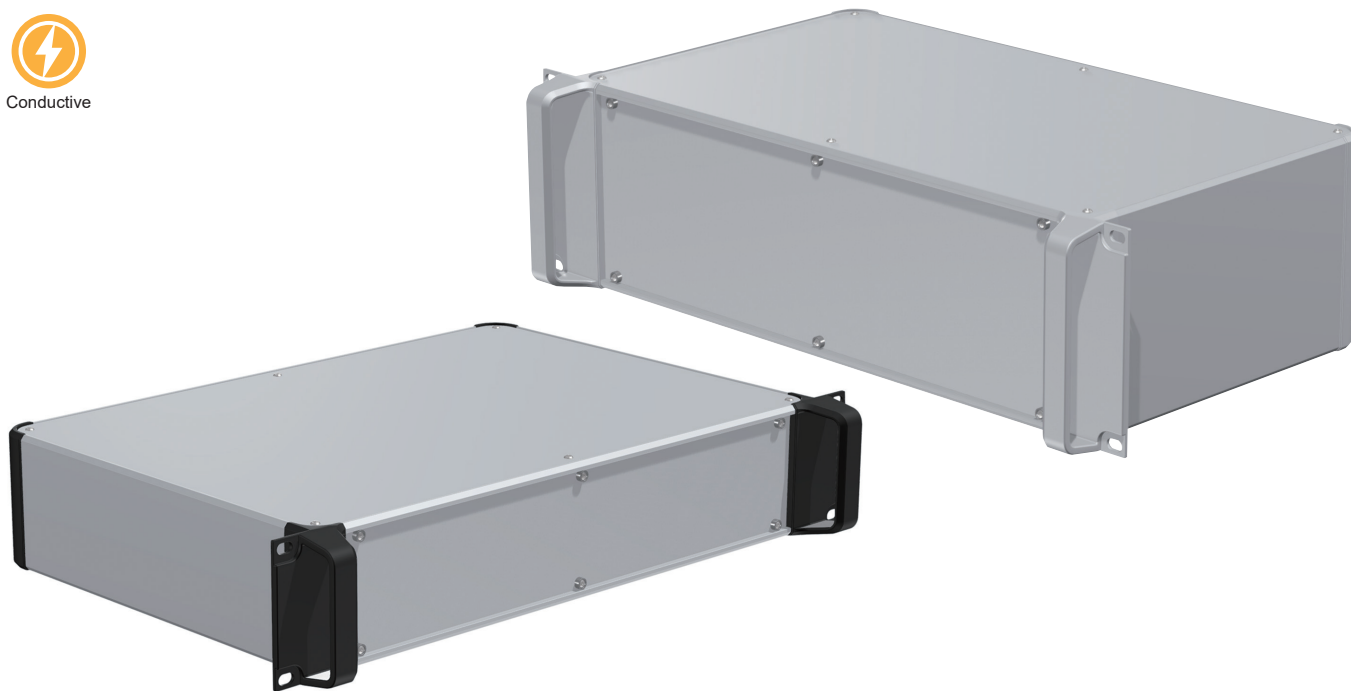
Rack mounting screw RT series
See website



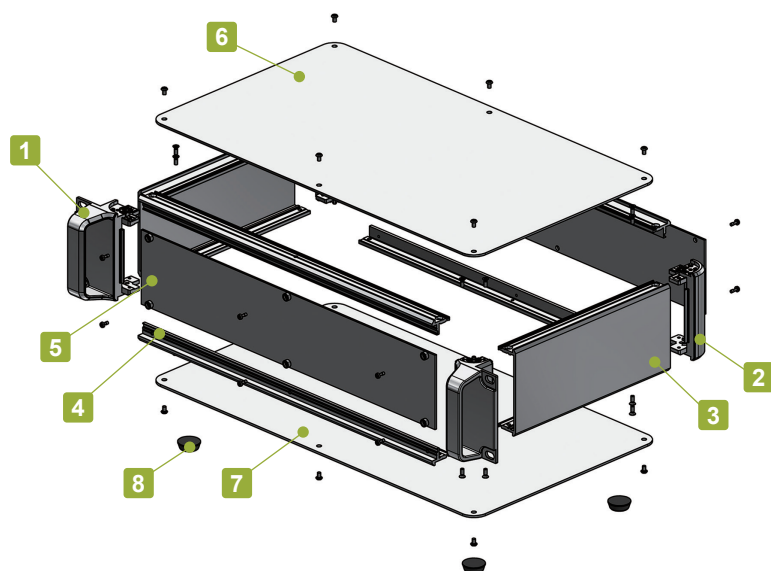
Rack mounting screw RZ series
See website



Conductive



- 19" rack mount enclosure with detachable panels.
- The inner surface is unfinished, allowing the enclosure to be conductive.
- A large selection of 28 different sizes in 2 different colors to choose from.
- Suitable for use as audio/visual equipment, communication equipment, rack mount computers, measuring instruments and more.

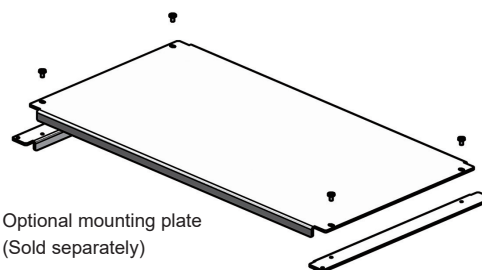


Included screws

- Top / Bottom cover
M3-5 original trapezoid head & Nickel plated x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs
- Panel
M2.5-7 pan head & Nickel plated x 12 pcs

Recommended torque : $\begin{cases} \text{M2.5 : } 0.15 \sim 0.2\text{N} \cdot \text{m} \\ \text{M3 : } 0.3 \sim 0.6\text{N} \cdot \text{m} \end{cases}$

* Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.



Optional mounting plate
(Sold separately)

Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
3	Frame	2	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Panel support frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
5	Panel	2	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
7	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
8	Rubber feet	4	Synthetic rubber	Black

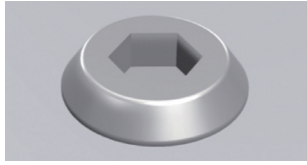
To select Screw and Color, follow steps **1** ~ **2** below to determine product number.

1 Screw

P Plus (Silver / Nickel plated)



H Hex (Silver / Nickel plated)



Hex wrench included.

2 Color

Please choose from the color combinations listed below.

S **S**



S **B**



Product Number

To determine a product number, fill H-W-D dimensions and select Screw and Color code in the following blank boxes.

AUPR

--

H-W-D dimensions

See below for dimensions / product no.

Screw

(P or H)

Color

(SS • SB)

Numbering example : If looking at "H88 x W430 x D250mm, Screw type H, Color type SB"

➔ **AUPR 88-43-25 H-SB**

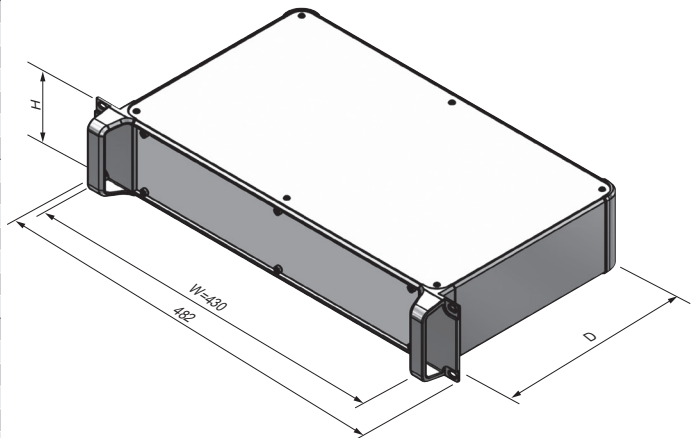
Product no. / Details

■ Please suffix screw and color code at the end of the product number.

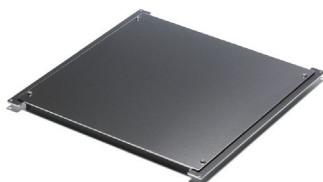
Product no.	H	W	D	Weight (kg)
AUPR 88-43-16□-□□	88	430	160	2.1
AUPR 88-43-20□-□□	88	430	200	2.3
AUPR 88-43-25□-□□	88	430	250	2.6
AUPR 88-43-30□-□□	88	430	300	2.9
AUPR 88-43-36□-□□	88	430	360	3.3
AUPR 88-43-43□-□□	88	430	430	3.7
AUPR 88-43-50□-□□	88	430	500	4.2
AUPR133-43-16□-□□	132.5	430	160	2.5
AUPR133-43-20□-□□	132.5	430	200	2.7
AUPR133-43-25□-□□	132.5	430	250	3.1
AUPR133-43-30□-□□	132.5	430	300	3.5
AUPR133-43-36□-□□	132.5	430	360	3.9
AUPR133-43-43□-□□	132.5	430	430	4.4
AUPR133-43-50□-□□	132.5	430	500	4.9
AUPR177-43-16□-□□	177	430	160	2.8
AUPR177-43-20□-□□	177	430	200	3.1
AUPR177-43-25□-□□	177	430	250	3.5
AUPR177-43-30□-□□	177	430	300	3.9
AUPR177-43-36□-□□	177	430	360	4.4
AUPR177-43-43□-□□	177	430	430	5.0
AUPR177-43-50□-□□	177	430	500	5.5
AUPR222-43-16□-□□	221.5	431	161	3.2
AUPR222-43-20□-□□	221.5	431	201	3.6
AUPR222-43-25□-□□	221.5	431	251	4.0
AUPR222-43-30□-□□	221.5	431	301	4.4
AUPR222-43-36□-□□	221.5	431	361	4.9
AUPR222-43-43□-□□	221.5	431	431	5.6
AUPR222-43-50□-□□	221.5	431	501	6.2

AUPR dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Accessories (Optional parts)



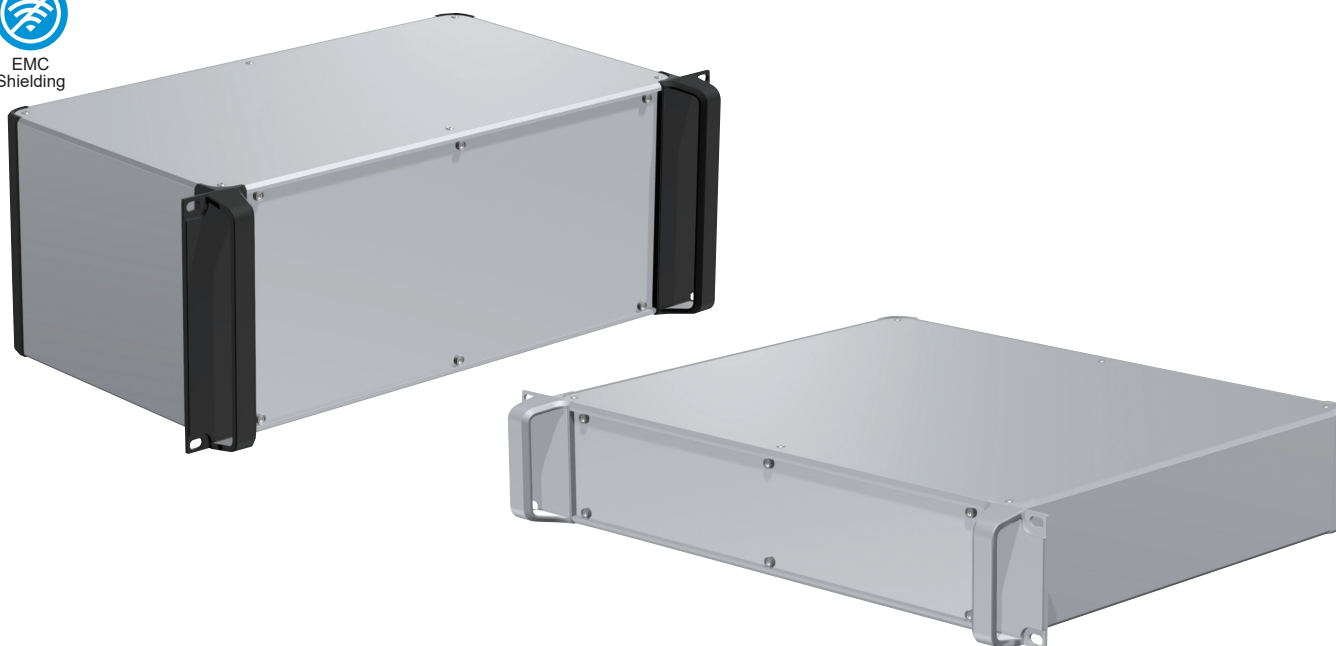
Mounting plate AUC series
See page 340



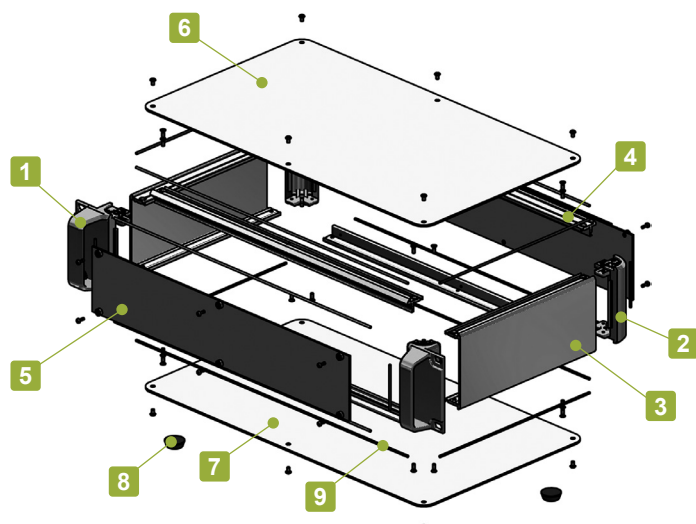
Rack mounting screw RT series
See website



Rack mounting screw RZ series
See website

EMC
Shielding

- EMC shielded 19" enclosure with handles.
- Detachable front / rear panels and Captive screws allow for easy maintenance as there is little risk of the screws dropping out and getting lost.
- A large selection of 28 different sizes in 2 different colors to choose from.
- Suitable for use as audio / visual equipment, communication equipment, rack mount computers, measuring instruments and more.

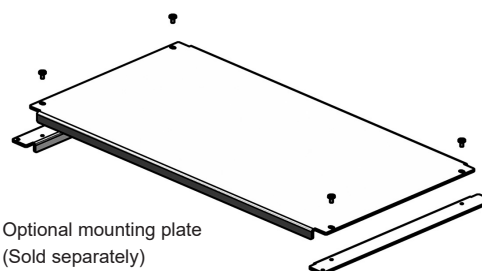


Included screws

- Top / Bottom cover
M3-5 original trapezoid head & Nickel plated x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs
- Panel
M2.5-7 pan head & Nickel plated x 12 pcs

Recommended torque : $\begin{cases} \text{M2.5 : } 0.15 \sim 0.2\text{N} \cdot \text{m} \\ \text{M3 / M4 : } 0.3 \sim 0.6\text{N} \cdot \text{m} \end{cases}$

* Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.



Optional mounting plate
(Sold separately)

Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
3	Frame	2	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Panel support frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
5	Panel	2	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
7	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
8	Rubber feet	4	Synthetic rubber	Black
9	EMC shielding gasket	16	Conductive fiber UL94V-0	Metallic gray

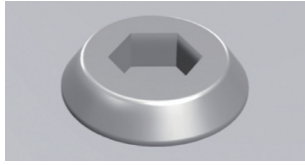
To select Screw and Color, follow steps **1** ~ **2** below to determine product number.

1 Screw

P Plus (Silver / Nickel plated)



H Hex (Silver / Nickel plated)



Hex wrench included.

2 Color

Please choose from the color combinations listed below.

S S



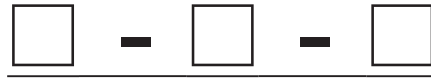
S B



Product Number

To determine a product number, fill H-W-D dimensions and select Screw and Color code in the following blank boxes.

AUPRE



H-W-D dimensions

See below for dimensions / product no.



Screw

(P or H)



Color

(SS • SB)

Numbering example : If looking at "H88 x W430 x D250mm, Screw type H, Color type SB"

➔ **AUPRE 88-43-25 H-SB**

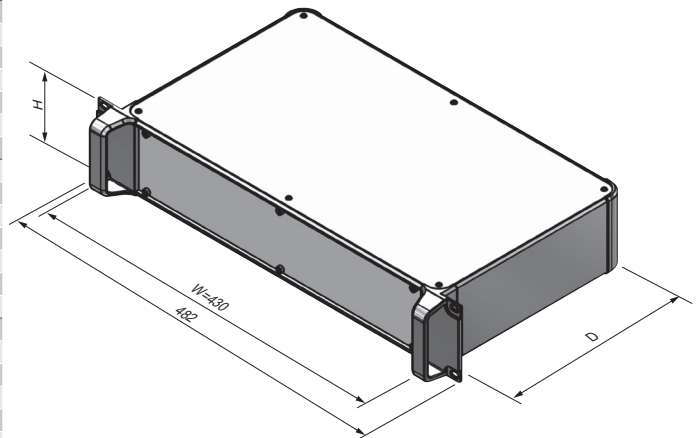
Product no. / Details

■ Please suffix screw and color code at the end of the product number.

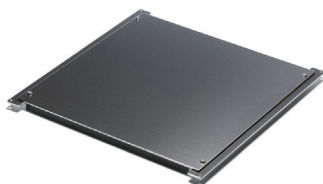
Product no.	H	W	D	Weight (kg)
AUPRE 88-43-16□-□□	88	430	160	2.1
AUPRE 88-43-20□-□□	88	430	200	2.3
AUPRE 88-43-25□-□□	88	430	250	2.6
AUPRE 88-43-30□-□□	88	430	300	2.9
AUPRE 88-43-36□-□□	88	430	360	3.3
AUPRE 88-43-43□-□□	88	430	430	3.7
AUPRE 88-43-50□-□□	88	430	500	4.2
AUPRE133-43-16□-□□	132.5	430	160	2.5
AUPRE133-43-20□-□□	132.5	430	200	2.8
AUPRE133-43-25□-□□	132.5	430	250	3.1
AUPRE133-43-30□-□□	132.5	430	300	3.5
AUPRE133-43-36□-□□	132.5	430	360	3.9
AUPRE133-43-43□-□□	132.5	430	430	4.4
AUPRE133-43-50□-□□	132.5	430	500	4.9
AUPRE177-43-16□-□□	177	430	160	2.8
AUPRE177-43-20□-□□	177	430	200	3.1
AUPRE177-43-25□-□□	177	430	250	3.5
AUPRE177-43-30□-□□	177	430	300	3.9
AUPRE177-43-36□-□□	177	430	360	4.4
AUPRE177-43-43□-□□	177	430	430	5.0
AUPRE177-43-50□-□□	177	430	500	5.5
AUPRE222-43-16□-□□	221.5	431	161	3.2
AUPRE222-43-20□-□□	221.5	431	201	3.6
AUPRE222-43-25□-□□	221.5	431	251	4.0
AUPRE222-43-30□-□□	221.5	431	301	4.4
AUPRE222-43-36□-□□	221.5	431	361	5.0
AUPRE222-43-43□-□□	221.5	431	431	5.6
AUPRE222-43-50□-□□	221.5	431	501	6.2

AUPRE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Accessories (Optional parts)



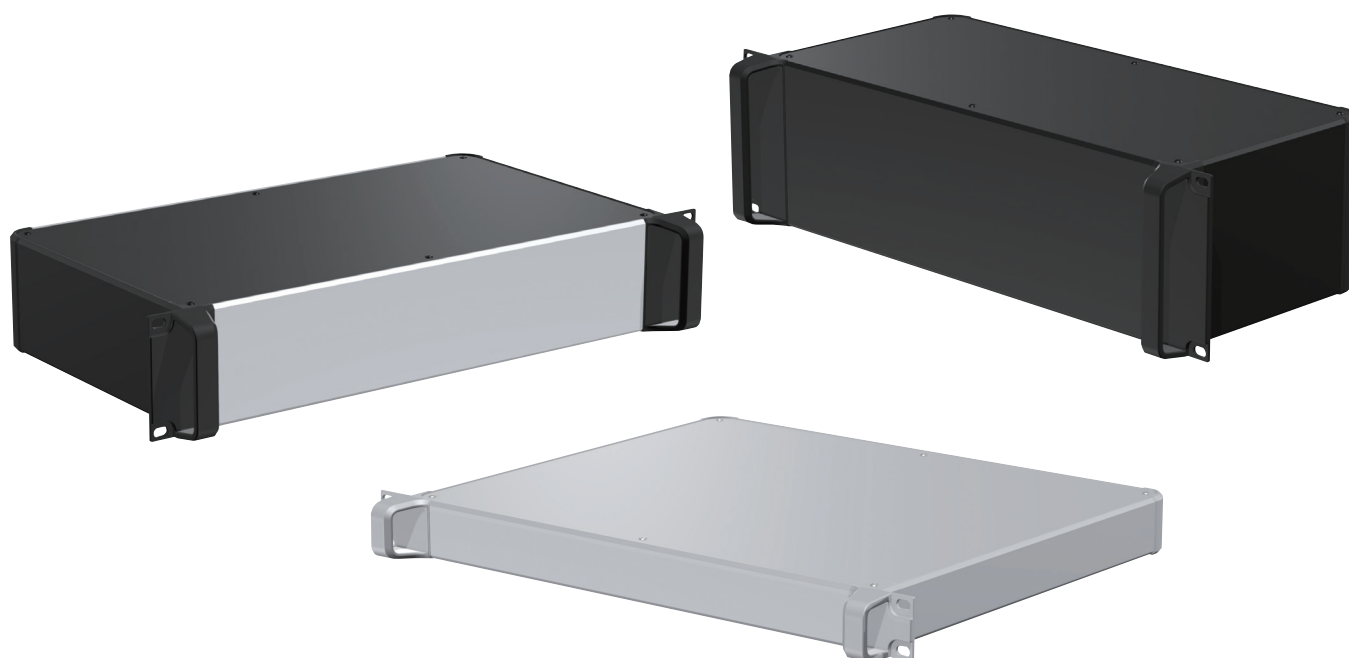
Mounting plate AUC series
See page 340



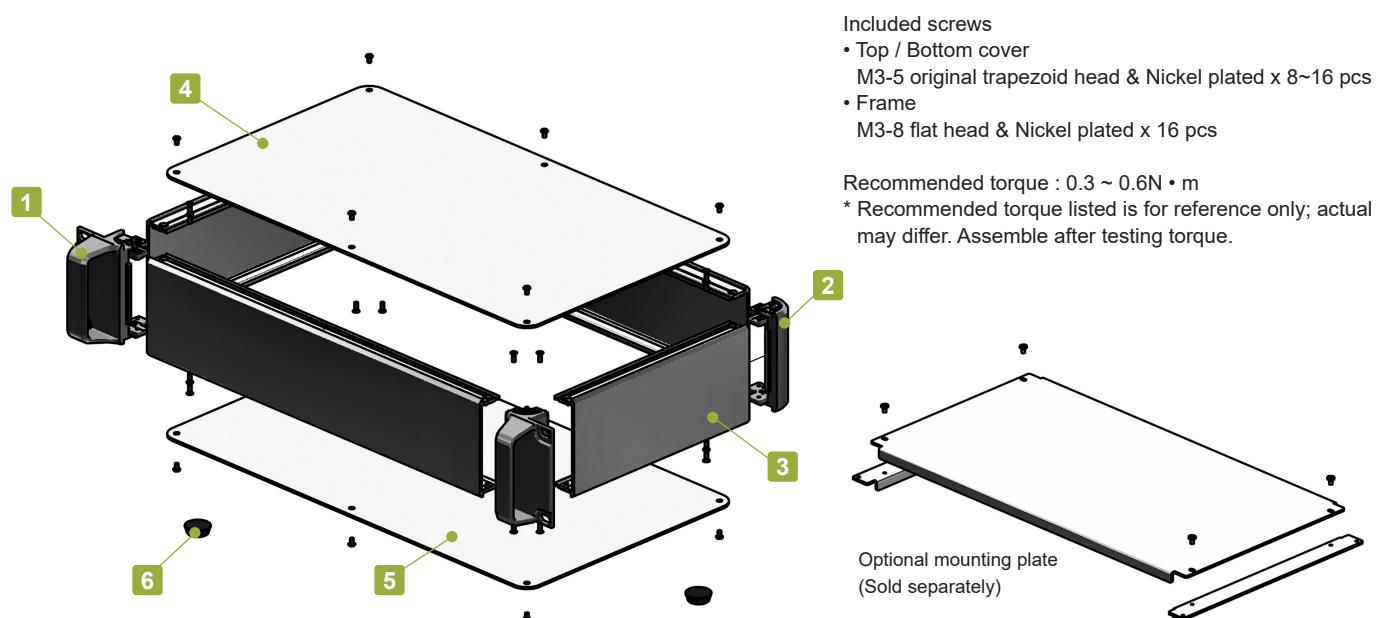
Rack mounting screw RT series
See website



Rack mounting screw RZ series
See website



- 19" Rack Mount Enclosure with 4 extruded aluminium frames.
- Flat and rugged design rack mounting aluminium case with handles.
- A wide selection of 35 different sizes in 4 different colors to choose from.
- Suitable for use as audio / visual equipment, communication equipment, rack mount computers, measuring instruments and more.

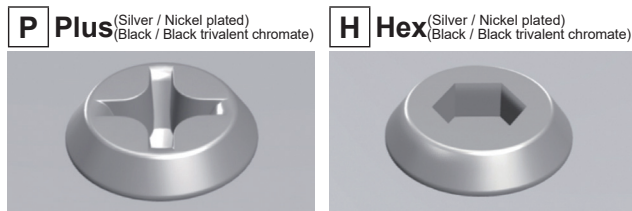


Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
3	Frame	4	Extruded aluminium A6063S-T5	Silver • Black / Anodized
4	Top cover	1	Aluminium A1100P	Silver • Black / Anodized
5	Bottom cover	1	Aluminium A1100P	Silver • Black / Anodized
6	Rubber feet	4	Synthetic rubber	Black

To select Screw and Color, follow steps **1** ~ **2** below to determine product number.

1 Screw

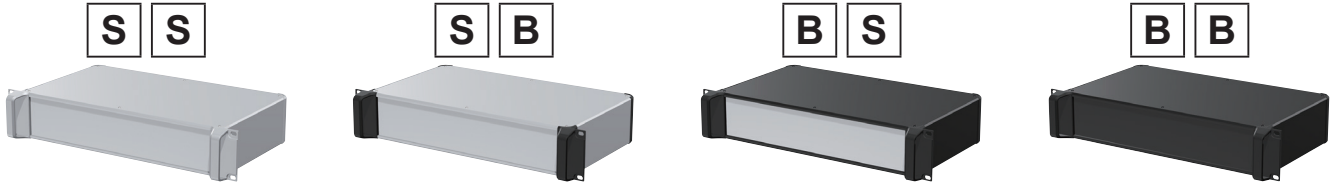


*Color of screw will be the same as top • bottom cover color.

Hex wrench included.

2 Color

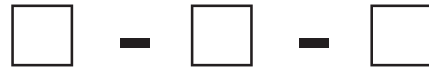
Please choose from the color combinations listed below.



Product Number

To determine a product number, fill H-W-D dimensions and select Screw and Color code in the following blank boxes.

AUXR



H-W-D dimensions

See below for dimensions / product no.



Screw

(P or H)



Color

(SS • SB • BS • BB)

Numbering example : If looking at "H88 x W430 x D250mm, Screw type H, Color type BS"

➔ **AUXR 88-43-25 H-BS**

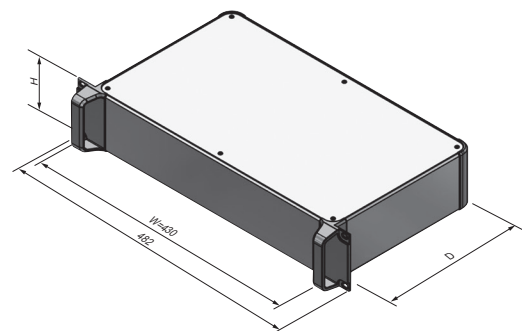
Product no. / Details ■ Please suffix screw and color code at the end of the product number.

Product no.	H	W	D	Weight (kg)
AUXR 44-43-16□-□□	44	430	160	1.6
AUXR 44-43-20□-□□	44	430	200	1.8
AUXR 44-43-25□-□□	44	430	250	2.1
AUXR 44-43-30□-□□	44	430	300	2.4
AUXR 44-43-36□-□□	44	430	360	2.7
AUXR 44-43-43□-□□	44	430	430	3.1
AUXR 44-43-50□-□□	44	430	500	3.5
AUXR 88-43-16□-□□	88	430	160	2.0
AUXR 88-43-20□-□□	88	430	200	2.3
AUXR 88-43-25□-□□	88	430	250	2.6
AUXR 88-43-30□-□□	88	430	300	2.9
AUXR 88-43-36□-□□	88	430	360	3.3
AUXR 88-43-43□-□□	88	430	430	3.7
AUXR 88-43-50□-□□	88	430	500	4.2
AUXR133-43-16□-□□	132.5	430	160	2.6
AUXR133-43-20□-□□	132.5	430	200	2.9
AUXR133-43-25□-□□	132.5	430	250	3.2
AUXR133-43-30□-□□	132.5	430	300	3.6
AUXR133-43-36□-□□	132.5	430	360	4.0
AUXR133-43-43□-□□	132.5	430	430	4.6
AUXR133-43-50□-□□	132.5	430	500	5.1
AUXR177-43-16□-□□	177	430	160	3.0
AUXR177-43-20□-□□	177	430	200	3.4
AUXR177-43-25□-□□	177	430	250	3.8
AUXR177-43-30□-□□	177	430	300	4.2
AUXR177-43-36□-□□	177	430	360	4.6
AUXR177-43-43□-□□	177	430	430	5.2
AUXR177-43-50□-□□	177	430	500	5.7

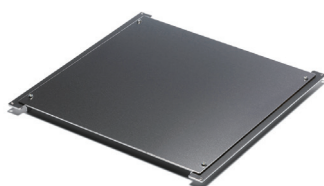
Product no.	H	W	D	Weight (kg)
AUXR222-43-16□-□□	221.5	431	161	3.5
AUXR222-43-20□-□□	221.5	431	201	3.9
AUXR222-43-25□-□□	221.5	431	251	4.3
AUXR222-43-30□-□□	221.5	431	301	4.7
AUXR222-43-36□-□□	221.5	431	361	5.3
AUXR222-43-43□-□□	221.5	431	431	5.9
AUXR222-43-50□-□□	221.5	431	501	6.5

AUXR dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Accessories (Optional parts)



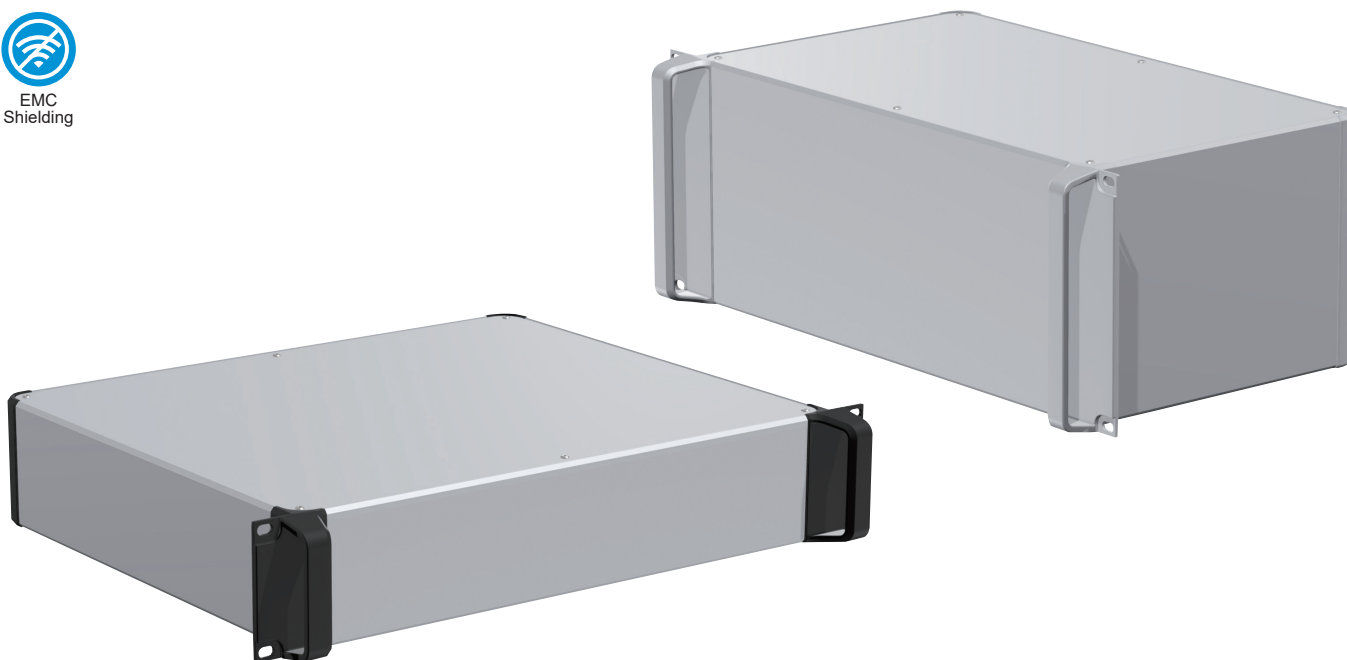
Mounting plate AUC series
See page 340



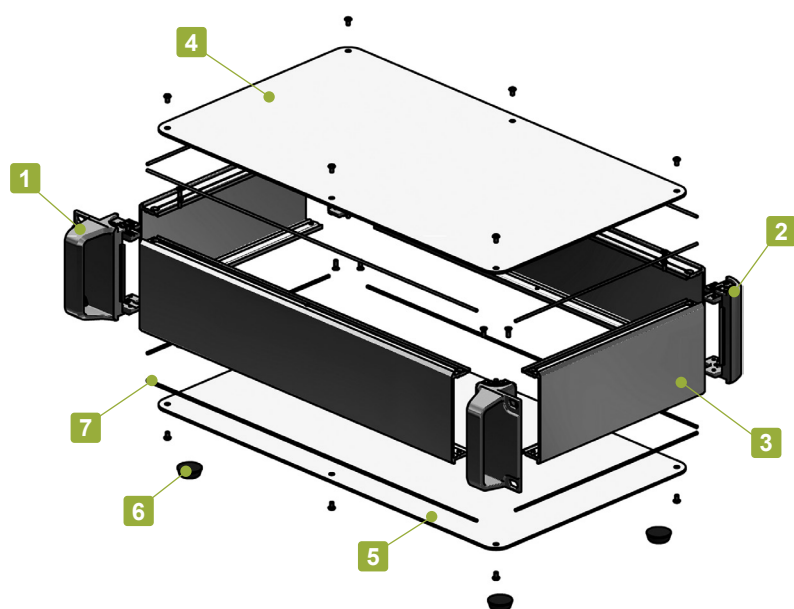
Rack mounting screw RT series
See website



Rack mounting screw RZ series
See website



- EMC shielded 19" Rack Mount Enclosure with 4 extruded aluminium frames.
- Flat and rugged design rack mounting aluminium case with handles.
- A large selection of 35 different sizes in 2 different colors to choose from.
- Suitable for use as audio / visual equipment, communication equipment, rack mount computers, measuring instruments and more.

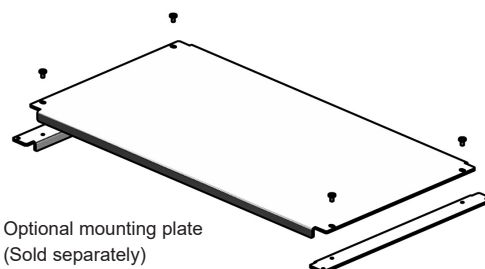


Included screws

- Top / Bottom cover
M3-5 original trapezoid head & Nickel plated x 8~16 pcs
- Frame
M3-8 flat head & Nickel plated x 16 pcs

Recommended torque : 0.3 ~ 0.6N • m

* Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Handle corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
2	Corner block	2	Diecast aluminium ADC12	Silver • Black / Painted (Unfinished inside)
3	Frame	4	Extruded aluminium A6063S-T5	Silver / Painted (Unfinished inside)
4	Top cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
5	Bottom cover	1	Aluminium A1100P	Silver / Painted (Conductive inside)
6	Rubber feet	4	Synthetic rubber	Black
7	EMC shielding gasket	8	Conductive fiber UL94V-0	Metallic gray

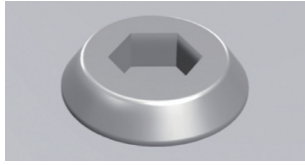
To select Screw and Color, follow steps **1** ~ **2** below to determine product number.

1 Screw

P Plus (Silver / Nickel plated)



H Hex (Silver / Nickel plated)



Hex wrench included.

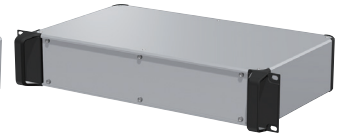
2 Color

Please choose from the color combinations listed below.

S **S**



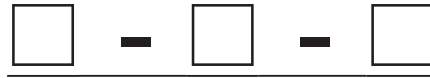
S **B**



Product Number

To determine a product number, fill H-W-D dimensions and select Screw and Color code in the following blank boxes.

AUXRE



H-W-D dimensions

See below for dimensions / product no.



Screw
(P or H)



Color
(SS • SB)

Numbering example : If looking at "H88 x W430 x D250mm, Screw type H, Color type SB"

➔ **AUXRE 88-43-25 H-SB**

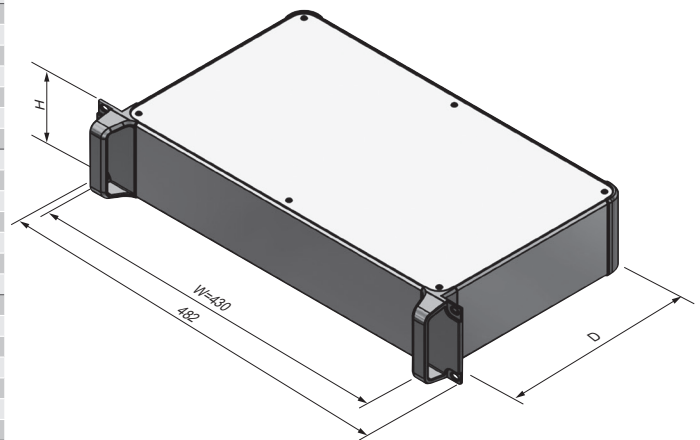
Product no. / Details

■ Please suffix screw and color code at the end of the product number.

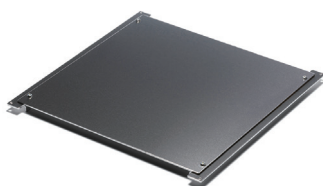
Product no.	H	W	D	Weight (kg)
AUXRE 44-43-16□-□□	44	430	160	2.0
AUXRE 44-43-20□-□□	44	430	200	2.3
AUXRE 44-43-25□-□□	44	430	250	2.6
AUXRE 44-43-30□-□□	44	430	300	2.9
AUXRE 44-43-36□-□□	44	430	360	3.3
AUXRE 44-43-43□-□□	44	430	430	3.7
AUXRE 44-43-50□-□□	44	430	500	4.2
AUXRE 88-43-16□-□□	88	430	160	2.0
AUXRE 88-43-20□-□□	88	430	200	2.3
AUXRE 88-43-25□-□□	88	430	250	2.6
AUXRE 88-43-30□-□□	88	430	300	2.9
AUXRE 88-43-36□-□□	88	430	360	3.3
AUXRE 88-43-43□-□□	88	430	430	3.7
AUXRE 88-43-50□-□□	88	430	500	4.2
AUXRE133-43-16□-□□	132.5	430	160	2.6
AUXRE133-43-20□-□□	132.5	430	200	2.9
AUXRE133-43-25□-□□	132.5	430	250	3.3
AUXRE133-43-30□-□□	132.5	430	300	3.6
AUXRE133-43-36□-□□	132.5	430	360	4.1
AUXRE133-43-43□-□□	132.5	430	430	4.6
AUXRE133-43-50□-□□	132.5	430	500	5.1
AUXRE177-43-16□-□□	177	430	160	3.0
AUXRE177-43-20□-□□	177	430	200	3.4
AUXRE177-43-25□-□□	177	430	250	3.8
AUXRE177-43-30□-□□	177	430	300	4.2
AUXRE177-43-36□-□□	177	430	360	4.6
AUXRE177-43-43□-□□	177	430	430	5.2
AUXRE177-43-50□-□□	177	430	500	5.8
AUXRE222-43-16□-□□	221.5	431	161	3.5
AUXRE222-43-20□-□□	221.5	431	201	3.9
AUXRE222-43-25□-□□	221.5	431	251	4.3
AUXRE222-43-30□-□□	221.5	431	301	4.7
AUXRE222-43-36□-□□	221.5	431	361	5.3
AUXRE222-43-43□-□□	221.5	431	431	5.9
AUXRE222-43-50□-□□	221.5	431	501	6.5

AUXRE dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Accessories (Optional parts)



Mounting plate AUC series
See page 340



Rack mounting screw RT series
See website



Rack mounting screw RZ series
See website

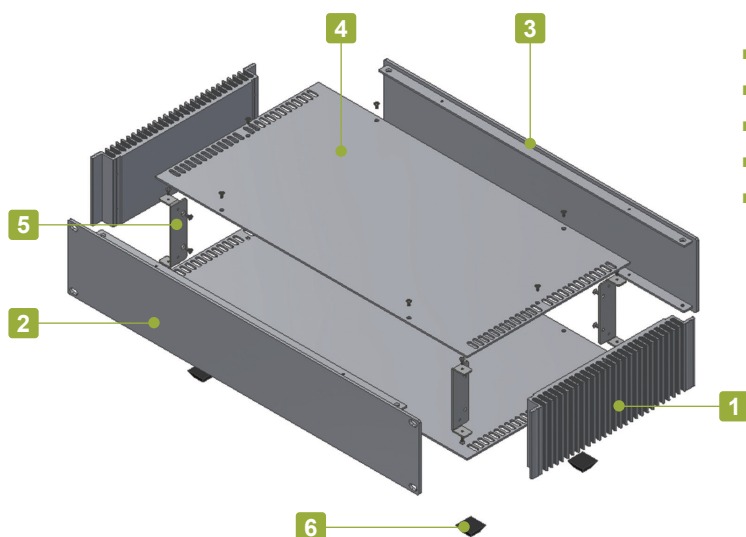


Heat
Resistant



Technical Data

Protection class : IP40



- 8 different sizes, each with 2 color types available for selection.
- Stylish and elegantly designed with a hairline finish.
- Excellent cooling performance with the heat-sink side plates.
- Tough and robust enclosure from using aluminium extrusion parts.
- Simple and easy to assemble construction.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Heat-sink side plate	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
2	Front panel	1	Extruded aluminium A6063S-T5	Silver • Black / Hairline brushed & Anodized
3	Rear panel	1	Extruded aluminium A6063S-T5	Silver • Black / Hairline brushed & Anodized
4	Top • Bottom cover	2	Aluminium A1050P t=2.0	Silver • Black / Hairline brushed & Anodized
5	Corner support	4	Steel SPCC t=1.6	Trivalent chromate
6	Rubber feet	4	Polyurethane	Black
-	Screw	1 set	Steel M3	Nickel plated • Black trivalent chromate

Accessories (Optional parts)



Mounting plate HYC series
See page 331



L-bracket HYCL series
See page 331

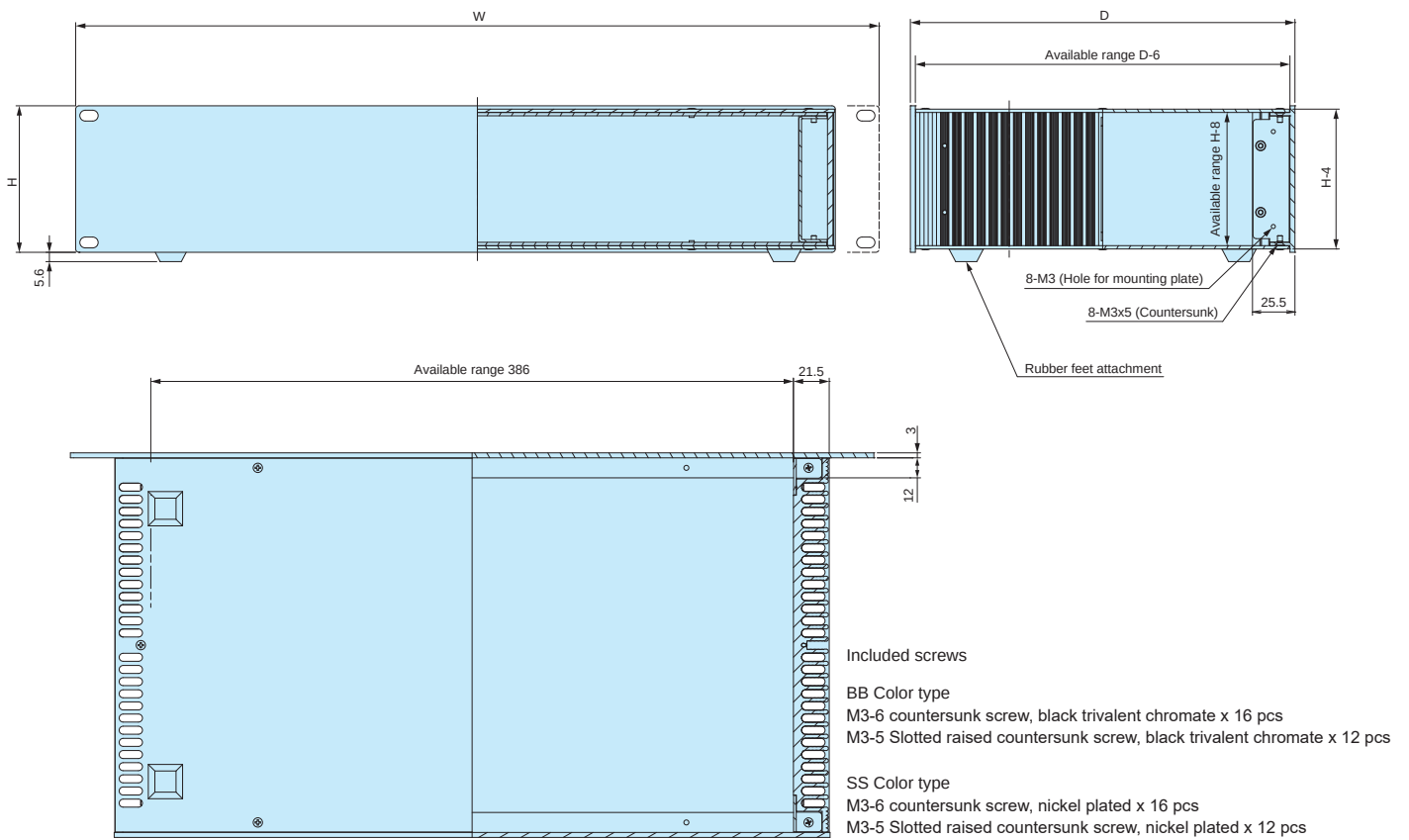


TORX screw MR3-5Z series
See page 398



HYR dimensions (outside view)

■ Drawings below are reference examples only.
DXF/DWG/PDF/STP drawings available on our website.

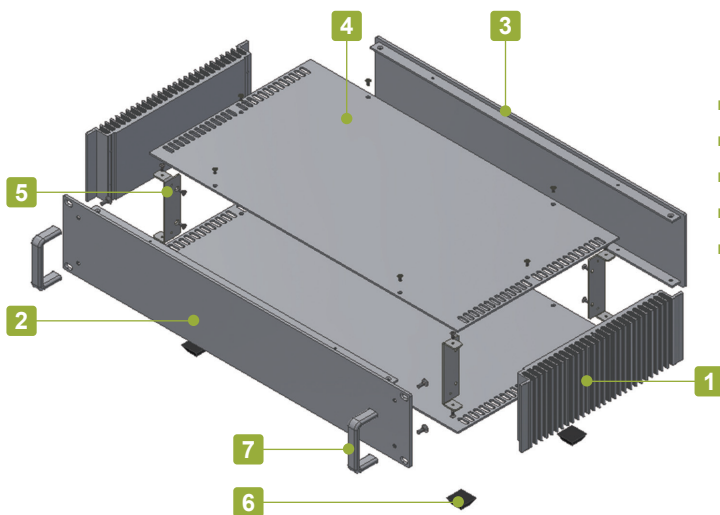


Product no. / Details

Product no.		W	H	D	Standard	Weight (kg)
● Silver	● Black					
HYR 44-43-23SS	HYR 44-43-23BB	482.6	44	231	EIA	1.9
HYR 44-43-33SS	HYR 44-43-33BB	482.6	44	330	EIA	2.6
HYR 88-43-23SS	HYR 88-43-23BB	482.6	88	231	EIA	2.8
HYR 88-43-33SS	HYR 88-43-33BB	482.6	88	330	EIA	3.7
HYR133-43-23SS	HYR133-43-23BB	482.6	132.5	231	EIA	3.6
HYR133-43-33SS	HYR133-43-33BB	482.6	132.5	330	EIA	4.7
HYR177-43-23SS	HYR177-43-23BB	482.6	177	231	EIA	4.5
HYR177-43-33SS	HYR177-43-33BB	482.6	177	330	EIA	5.9



Heat
Resistant



Technical Data

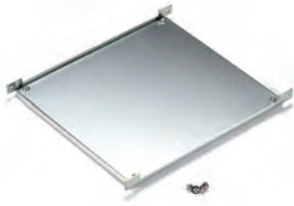
Protection class : IP40

- Equipped with handy rack mount / pull out handles.
- Available in 8 sizes, and 2 different colors.
- Excellent cooling performance with the heat-sink side plates.
- Tough and robust enclosure from using aluminium extrusion parts.
- Simple and easy to assemble construction.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Heat-sink side plate	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
2	Front panel	1	Extruded aluminium A6063S-T5	Silver • Black / Hairline brushed & Anodized
3	Rear panel	1	Extruded aluminium A6063S-T5	Silver • Black / Hairline brushed & Anodized
4	Top • Bottom cover	2	Aluminium A1050P t=2.0	Silver • Black / Hairline brushed & Anodized
5	Corner support	4	Steel SPCC t=1.6	Trivalent chromate
6	Rubber feet	4	Polyurethane	Black
7	Handle	2	Extruded aluminium A6063S-T5	Silver • Black / Anodized
-	Screw	1 set	Steel	Nickel plated • Black trivalent chromate

Accessories (Optional parts)



Mounting plate HYC series
See page 331



L-bracket HYCL series
See page 331

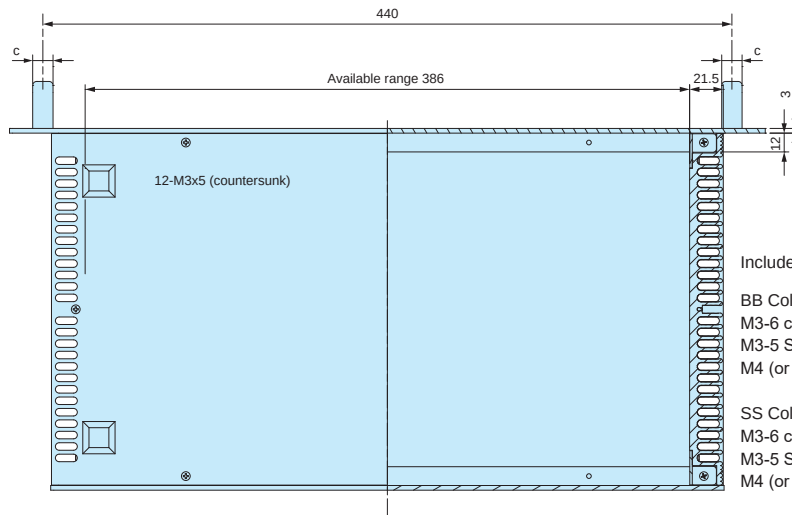
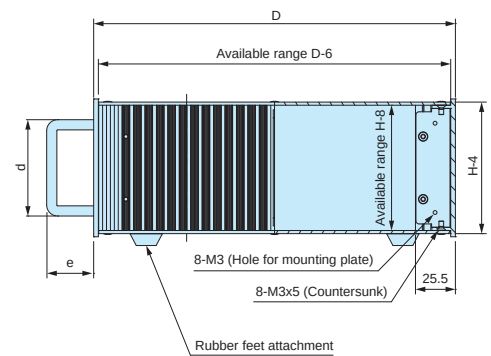
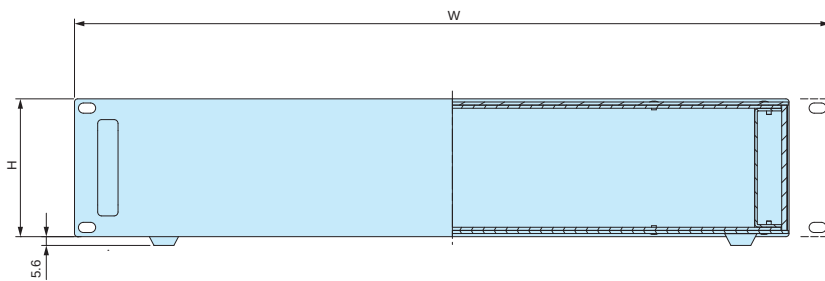


TORX screw MR3-5Z series
See page 398



HYRH dimensions (outside view)

■ Drawings below are reference examples only.
DXF/DWG/PDF/STP drawings available on our website.



Included screws

BB Color type

M3-6 countersunk screw, black trivalent chromate x 16 pcs

M3-5 Slotted raised countersunk screw, black trivalent chromate x 12 pcs

M4 (or M5) -10 countersunk screw, trivalent chromate x 4 pcs

SS Color type

M3-6 countersunk screw, nickel plated x 16 pcs

M3-5 Slotted raised countersunk screw, nickel plated x 12 pcs

M4 (or M5) -10 countersunk screw, trivalent chromate x 4 pcs

Product no. / Details

Product no.		W	H	D	c	d	e	Standard	Weight (kg)
● Silver	● Black								
HYRH 44-43-23SS	HYRH 44-43-23BB	482.6	44	231	12	41.0	40	EIA	2.0
HYRH 44-43-33SS	HYRH 44-43-33BB	482.6	44	330	12	41.0	40	EIA	2.6
HYRH 88-43-23SS	HYRH 88-43-23BB	482.6	88	231	13	61.5	30	EIA	2.8
HYRH 88-43-33SS	HYRH 88-43-33BB	482.6	88	330	13	61.5	30	EIA	3.7
HYRH133-43-23SS	HYRH133-43-23BB	482.6	132.5	231	13	106.5	30	EIA	3.6
HYRH133-43-33SS	HYRH133-43-33BB	482.6	132.5	330	13	106.5	30	EIA	4.8
HYRH177-43-23SS	HYRH177-43-23BB	482.6	177	231	13	126.5	30	EIA	4.6
HYRH177-43-33SS	HYRH177-43-33BB	482.6	177	330	13	126.5	30	EIA	5.9

Raspberry Pi HEAT-SINK ALUMINIUM CASE

Made with Aluminium Diecast Material

for Excellent Heat Dissipation and Rigidity

Exceptional Functionality with Superb Cost Efficiency!

Now available
for
Raspberry Pi 5

RPH series



3 different types are available: Desktop, Flanged and DIN Rail

Desktop type
RPH-5
RPH-4B



Flanged type
RPH-5-F
RPH-4B-F



DIN Rail type
RPHD-5
RPHD-4B



Available in metallic silver and black
for Raspberry Pi 4 Model B and Raspberry
Pi 5.

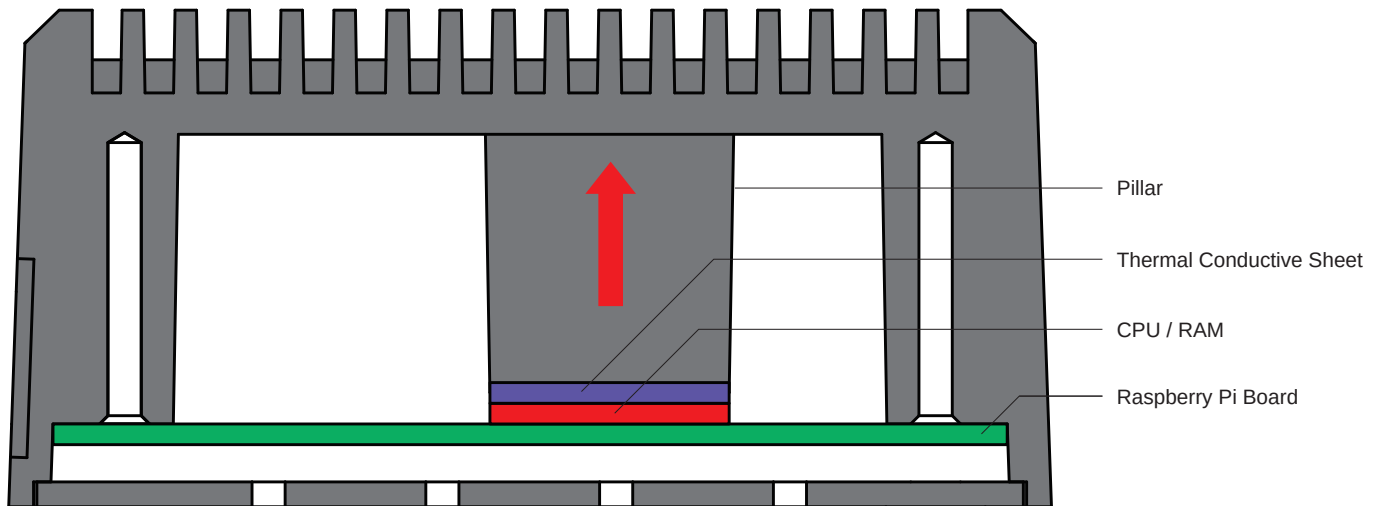
Compatible with VESA Mount Standards
(75 x 75mm / 100 x 100mm), and can be
installed on the back side of PC displays, etc.

Available with DIN Rail mounting bracket.
Perfect for mounting on control panels
or switchboards.

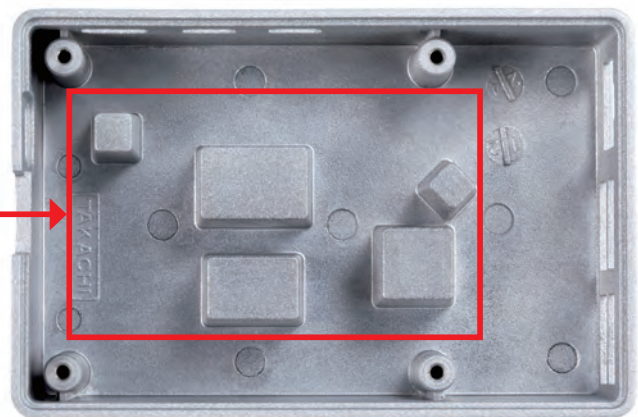
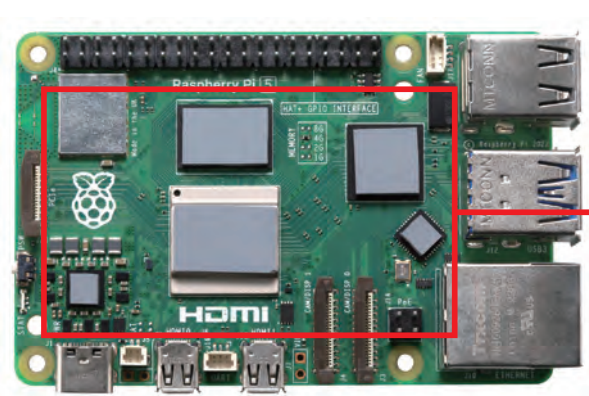
Efficient Heat Dissipation Construct to Maximize your Raspberry Pi Performance!



Heat Dissipation



- Attach thermal conductive sheet onto CPU and RAM. Heat is transferred to the heat-sink cover through the pillar.



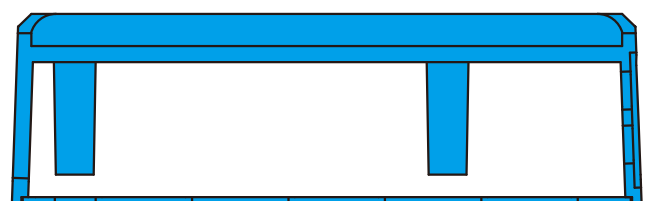
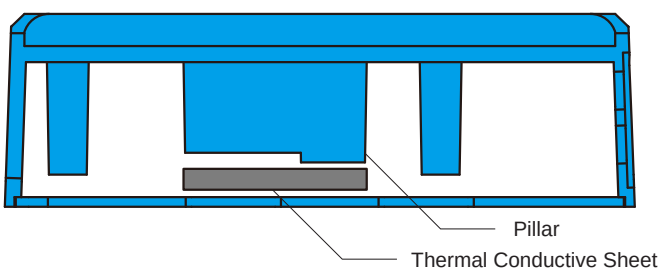
*The model shown above is for Raspberry Pi 5. The model for Raspberry Pi 4 model B has a different configuration.

2 different Heat dissipation types and Normal type are available.

*The Pillar and the Thermal Conductive Sheet configuration varies by models.

RPH-5-H (Heat dissipation)
RPH-4B-H (Heat dissipation)

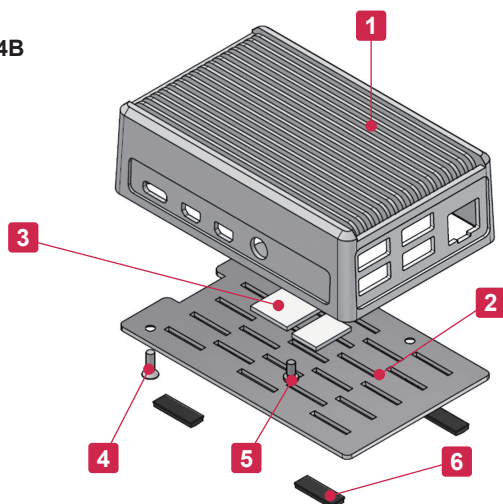
RPH-4B-N (Normal)



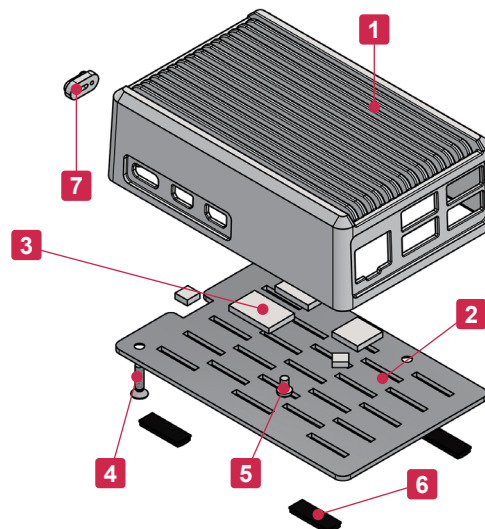
Heat
Resistant

- New RPH-5-H • FH model compatible with Raspberry Pi 5 is now available.
- Heat-sink top cover case exclusively for use with the Raspberry Pi.
Equipped with highly efficient heat-sink top cover.
- Constructed using diecast aluminium for strength and rigidity.
- The Heat dissipation type is available for both the Pi 4B and 5, while the Normal type is only available for the Pi 4B.
- Both Pi 4B and 5 are available in a Desktop and Flanged wall mount configuration.
Flanged wall mount type is compatible with VESA Mount Standards (75 x 75mm / 100 x 100mm) and can be installed on the back side of PC displays, etc.
- Raspberry Pi board is not included.
- Note that oil bleed may occur with thermal conductive sheets.

RPH-4B



RPH-5



Components

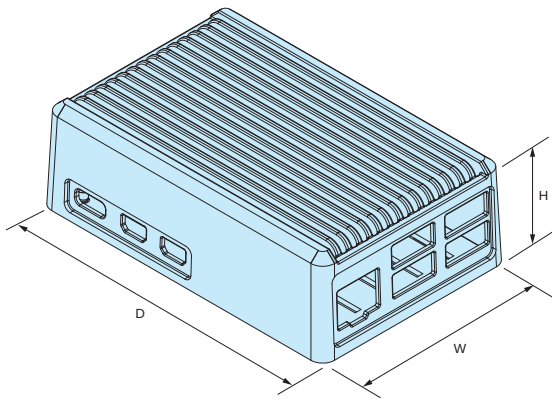
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Diecast aluminium ADC12	Silver • Black / Painted
2	Base	1	Aluminium A1100P t=1.5	Metallic silver / Painted (Conductive inside) • Black / Painted
3	Thermal conductive sheet (RPH-4B-H type only)	2	Silicone polymer + Ceramic composite	Gray
	Thermal conductive sheet (RPH-5 type only)	5	Silicone	Gray
4	Screw (M2.5-10 flat head)	2	Steel	Trivalent chromate • Black trivalent chromate
5	Screw for Board (M2.5-4 pan head)	2	Steel	Trivalent chromate
6	Rubber feet *	4	Polyurethane	Black
7	Power button access cap	1	Polycarbonate	Transparent

* Not applicable to flanged models.

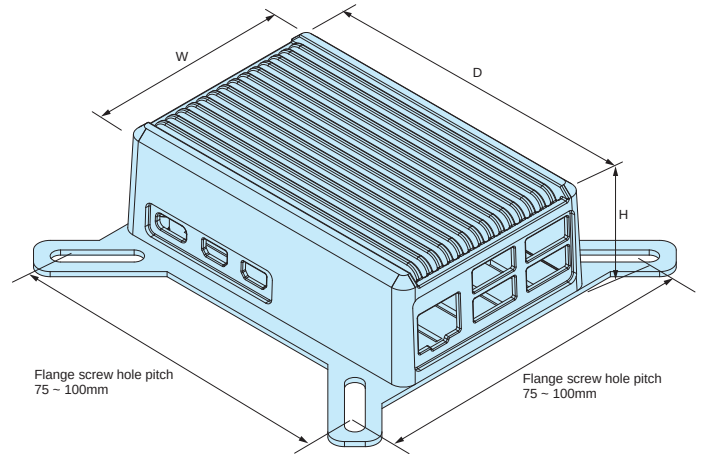
RPH dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

RPH-5-H, RPH-4B-H, RPH-4B-N (Desktop)



RPH-5-FH, RPH-4B-FH, RPH-4B-FN (Flanged)



Product no. / Details

Product no.		External dimensions			Type	Included accessory	※Thermal resistance rate (°C/W)	Weight (g)
● Silver	● Black	W	H	D				
NEW RPH-5-H-S	NEW RPH-5-H-B	63	30	96	Desktop Heat dissipation	Rubber feet Thermal conductive sheets	7.41	165.5
RPH-4B-H-S	RPH-4B-H-B	63	30	98	Desktop Heat dissipation	Rubber feet Thermal conductive sheets	7.31	159.9
RPH-4B-N-S	RPH-4B-N-B	63	30	98	Desktop Normal	Rubber feet	7.31	142
NEW RPH-5-FH-S	NEW RPH-5-FH-B	63	31.5	96	Flanged Heat dissipation	Thermal conductive sheets	7.41	174.2
RPH-4B-FH-S	RPH-4B-FH-B	63	31.5	98	Flanged Heat dissipation	Thermal conductive sheets	7.31	168.2
RPH-4B-FN-S	RPH-4B-FN-B	63	31.5	98	Flanged Normal	—	7.31	150.3

※ Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Powder coated aluminium diecast.
- Heat source is applied on the opposite side (inner side) of the fins.

Temperature measurement test

Raspberry Pi board is placed into the RPH-H model and a commercially available Raspberry Pi plastic case.

Temperature is measured after 6 hours of continuous operation.

*Results will vary depending on usage period and environment. Listed values are in-house test reference values only.



RPH-H
CPU Temperature : 45.7°C



Plastic case
CPU Temperature : 58.4°C

Power button for Raspberry Pi 5

In conjunction with the addition of a power button to the Raspberry Pi 5 board, RPH-5-H and RPH-5-FH models come with a cover for the power button.



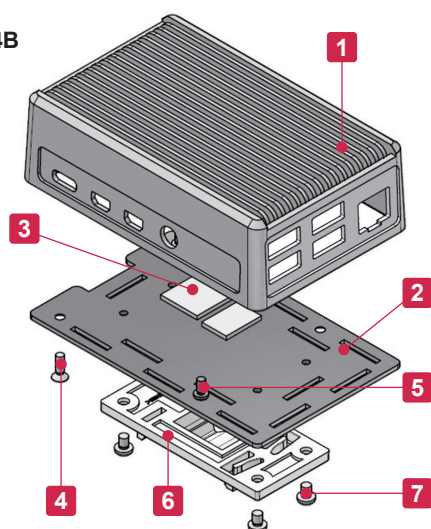
Heat
Resistant

- New RPHD-5H-S model compatible with Raspberry Pi 5 is now available.
- DIN Rail mount heat-sink case exclusively for use with Raspberry Pi 4 model B and Raspberry Pi 5. Equipped with highly efficient heat-sink top cover.
- Constructed using diecast aluminium for strength and rigidity.
- The Heat dissipation type is available for both the Pi 4B and 5, while the Normal type is only available for the Pi 4B.
- Raspberry Pi board is not included.
- Note that oil bleed may occur with thermal conductive sheets.

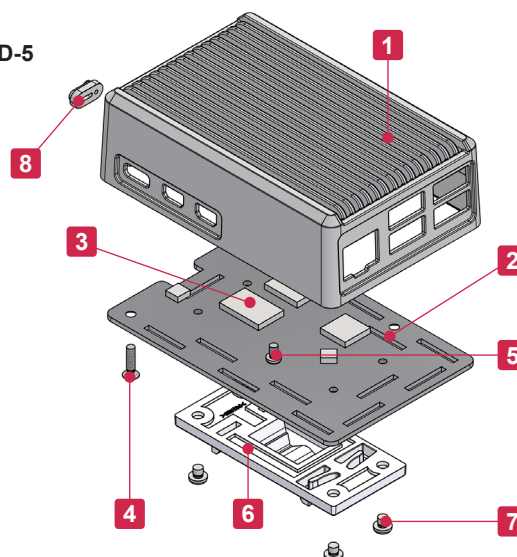
Technical Data

Max load : 300g
Operating Temperature : -20°C ~ +80°C

RPHD-4B



RPHD-5

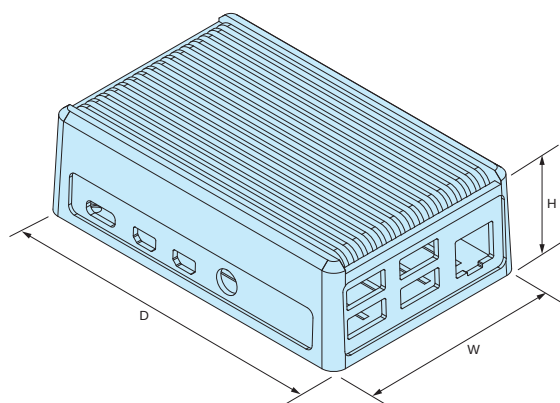


Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Diecast aluminium ADC12	Silver / Painted
2	Base	1	Aluminium A1100P t=1.5	Metallic silver / Painted (Conductive inside)
3	Thermal conductive sheet (RPHD-4B-H)	2	Silicone polymer + Ceramic composite	Gray
	Thermal conductive sheet (RPHD-5-H)	5	Silicone	Gray
4	Screw (M2.5-10 flat head)	2	Steel	Trivalent chromate
5	Screw for Board (M2.5-4 pan head)	2	Steel	Trivalent chromate
6	Din-rail mounting base	1	PC • ABS UL94V-0	Light gray
7	Screw for Din-rail mounting base (M3-3 pan head)	4	Steel	Trivalent chromate
8	Power button access cap (RPHD-5)	1	Polycarbonate	Transparent

RPHD dimensions

■ DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	External dimensions			Pillar Thermal conductive sheets	※Thermal resistance rate (°C/W)	Weight (g)
	W	H	D			
NEW RPHD-5-H-S	63	30	96	○	7.41	173.4
RPHD-4B-H-S	63	30	98	○	7.31	168.2
RPHD-4B-N-S	63	30	98	×	7.31	150.7

*Din-rail mounting base height is not included in H dimension.

※ Thermal resistance test condition

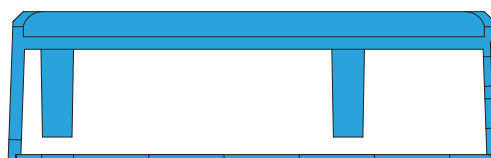
- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Powder coated aluminium diecast.
- Heat source is applied on the opposite side (inner side) of the fins.

■ 2 different Heat Dissipation types and Normal type are available.

RPHD-5-H, RPHD-4B-H (Heat dissipation)



RPHD-4B-N (Normal)



Power button for Raspberry Pi 5

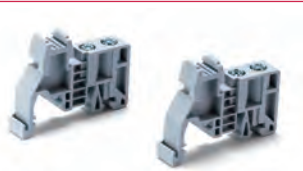
In conjunction with the addition of a power button to the Raspberry Pi 5 board, RPHD-5-H-S model comes with a cover for the power button.



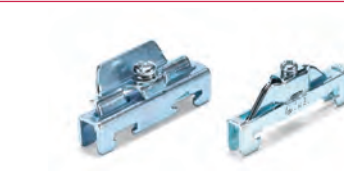
Accessories (Optional parts)



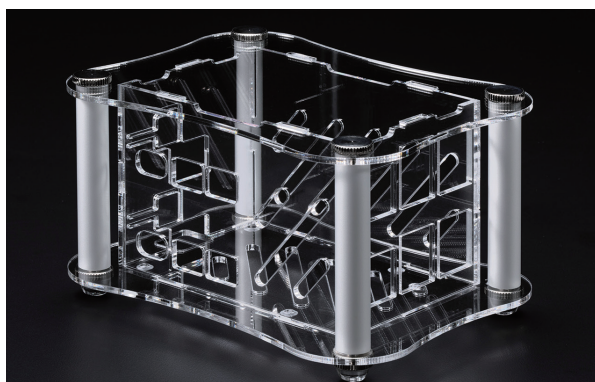
DIN Rail FDR series
See page 100



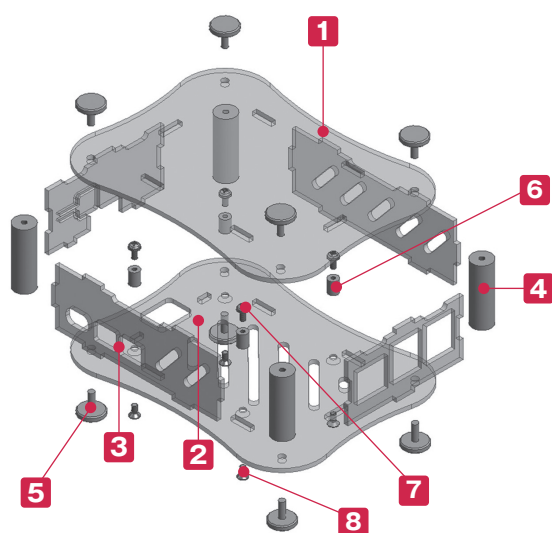
Economical DIN Rail end stopper DRS series
See page 99



DIN Rail terminal block end stopper TKR series
See page 99



RPA-4B-1F is compatible with VESA Mount Standards (100 x 100mm), and can be installed on the back side of PC displays, etc.



- Exclusively for use with Raspberry Pi models.
- 3 different types - Single desktop, Dual desktop, and Single flanged - are available.
- New size for Raspberry Pi 5 is now available.
- The panel power button part may easily bend when the board is not installed.
- Raspberry Pi board is not included.

※Ethanol or other alcoholic solvents may cause the acrylic panel to crack.
Use a neutral cleaner or specialized acrylic cleaning solvent for cleaning.

Technical Data

Operating temperature : -30°C ~ +60°C

※Included screws :

RPA-4B • 5-1 Knurled thumb screw x 8

RPA-4B • 5-2 Knurled thumb screw x 8

RPA-4B • 5-1F Knurled thumb screw x 4

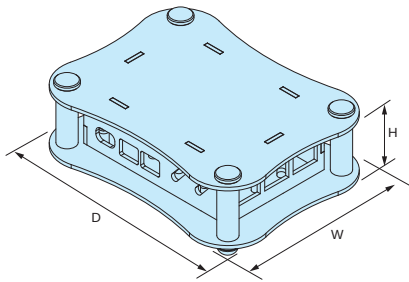
M3-8 flat head, Trivalent chromate x 4

Components

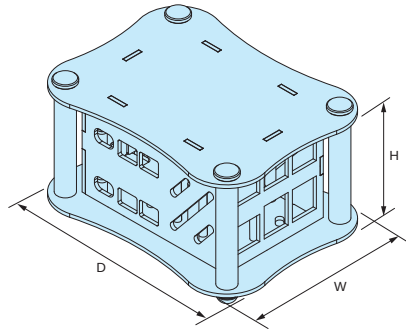
No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Acrylic t=2.0	Transparent
2	Bottom cover	1	Acrylic t=2.0	Transparent
3	Panel	4	Acrylic t=2.0	Transparent
4	Pillar	4	Extruded aluminium A6063S-T5	Silver / Anodized with clear coating
5	Knurled thumb screw (M3-8)※	4 / 8	Brass	Nickel plated
6	Standoff (for board)	4	Brass	Nickel plated
7	Screw for Board (M2.5-4 pan head)	4	Steel	Trivalent chromate
8	Screw for Standoffs (M2.5-5 flat head)	4	Steel	Trivalent chromate

RPA dimensions

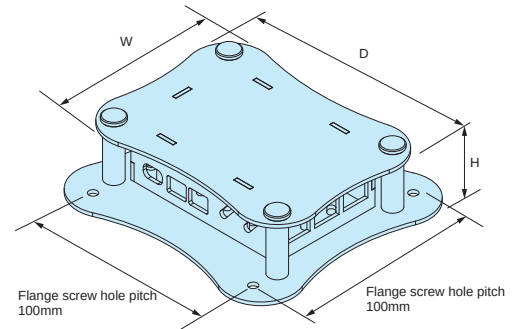
RPA-4B-1
RPA-5-1 (Single desktop)



RPA-4B-2
RPA-5-2 (Dual desktop)



RPA-4B-1F
RPA-5-1F (Single flanged)



■ DXF/DWG/PDF/STP drawings available on our website.

Product no. / Details

Product no.	External Dimension			Suitable model	Included accessory	Weight(g)
	W	H	D			
RPA-4B-1	95	34	125	Raspberry Pi 4B	Rubber feet	118
NEW RPA-5-1	95	34	125	Raspberry Pi 5	Rubber feet	113.5
RPA-4B-2	95	62	125	Raspberry Pi 4B	Rubber feet Round spacer (M2.5-25)	171.5
NEW RPA-5-2	95	62	125	Raspberry Pi 5	Rubber feet Round spacer (M2.5-25)	166.5
RPA-4B-1F	95	34	125	Raspberry Pi 4B	—	118.5
NEW RPA-5-1F	95	34	125	Raspberry Pi 5	—	113.5

■ Rubber feet : Synthetic rubber / Semi-transparent • Round spacer : Brass / Nickel plated

Raspberry Pi Case Customization

Unique Logo (Inkjet printing)

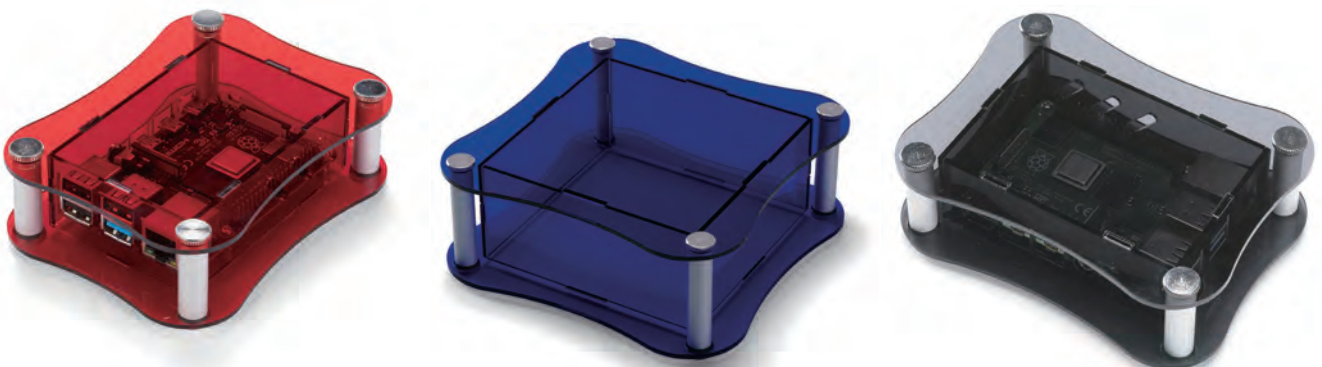
See page Custom-7~8, as well as our website for further details.

Various print processing methods are available, with no Minimum Order Quantity requirement!



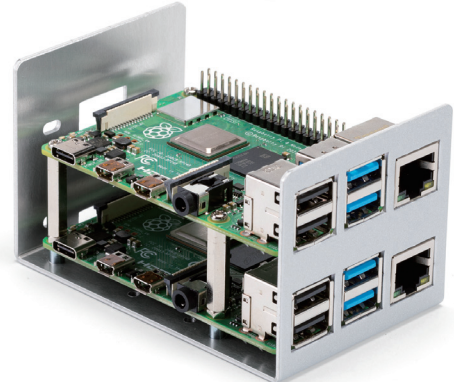
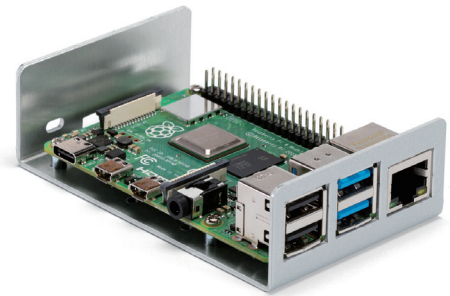
Color Variation

Available in different color types, as well as smoked / tinted shades.

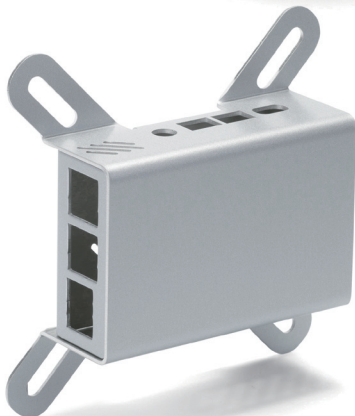




Conductive

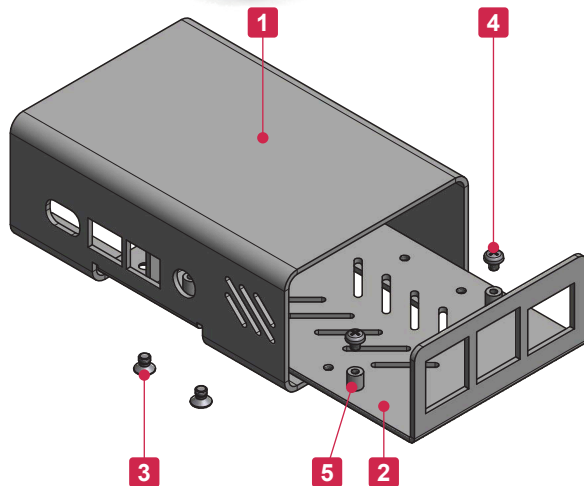


Two Raspberry Pi boards can be installed onto the RPI-2 and RPI-4B-2 models.



RPI-1F and RPI-4B-1F models are compatible with VESA Mount Standards (75 x 75mm / 100 x 100mm), and can be installed on the back side of PC displays, etc.

- Compatible with Raspberry Pi 2B, 3B, 3B+ and 4B boards.
- All aluminium, polished and elegant metallic silver finish.
- 3 different types - Single desktop, Dual desktop, and Single flanged - are available.
- Conductive internal surface.
- Raspberry Pi Board is not included.



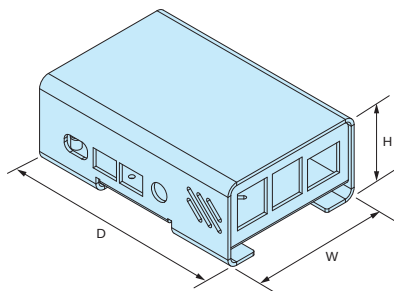
Components

No.	Part name	Pcs	Material	Color / Finish
1	Cover	1	Aluminium A1100P t=1.5	Metallic silver / Painted (Conductive inside)
2	Base	1	Aluminium A1100P t=1.5	Metallic silver / Painted (Conductive inside)
3	Screw (M3-4 flat head)	4	Steel	Trivalent chromate
4	Screw for Board (M2.5-4 pan head)	4	Steel	Trivalent chromate
5	Clinching standoff	4	Steel	Galvanized trivalent

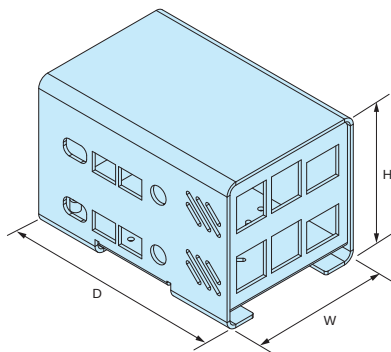
RPI dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

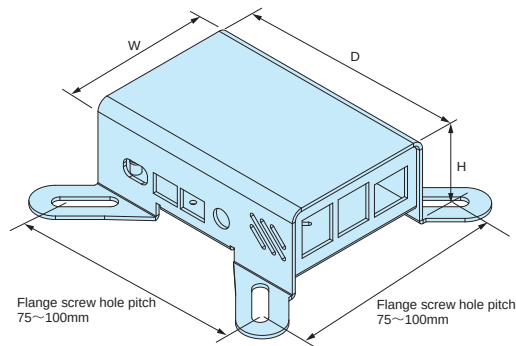
RPI-1, RPI-4B-1 (Single)



RPI-2, RPI-4B-2 (Dual)



RPI-1F, RPI-4B-1F (Flanged)



Product no. / Details

Product no.	External dimensions			Type	Included accessory	Compatible board	Weight (g)
	W	H	D				
RPI-1	65	37	95	Single desktop	Rubber feet	Raspberry Pi 2B/3B/3B+	90.5
RPI-4B-1	65	37	97	Single desktop	Rubber feet	Raspberry Pi 4B	91.5
RPI-2	65	65	95	Dual desktop	Rubber feet	Raspberry Pi 2B/3B/3B+	136
					Hexagonal spacer (M2.5-25)		
RPI-4B-2	65	65	97	Dual desktop	Rubber feet	Raspberry Pi 4B	138.8
					Hexagonal spacer (M2.5-25)		
RPI-1F	65	37	95	Single flanged	—	Raspberry Pi 2B/3B/3B+	91.5
RPI-4B-1F	65	37	97	Single flanged	—	Raspberry Pi 4B	93.8

■ Rubber feet : Synthetic rubber / Black • Hexagonal spacer : Brass / Nickel plated

Raspberry Pi Case Customization

Unique Logo (Inkjet print, Engraving)

See page Custom-7~10, as well as our website for further details.

Various print processing methods are available, with no Minimum Order Quantity requirement!



Color Anodization • Painting

See page Custom-15~16, as well as our website for further details.

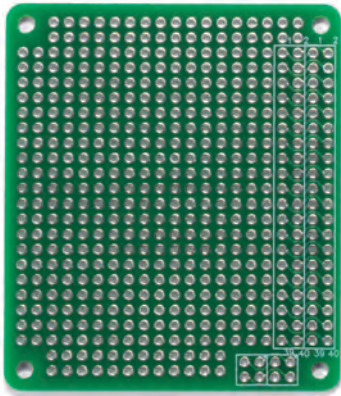


RPCB series

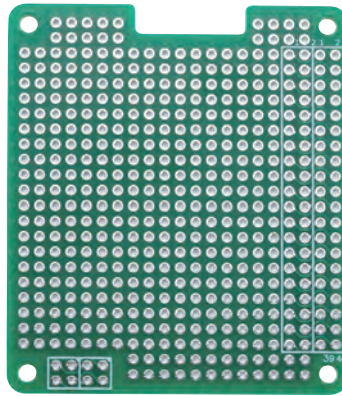
EXPANSION PCB for Raspberry Pi



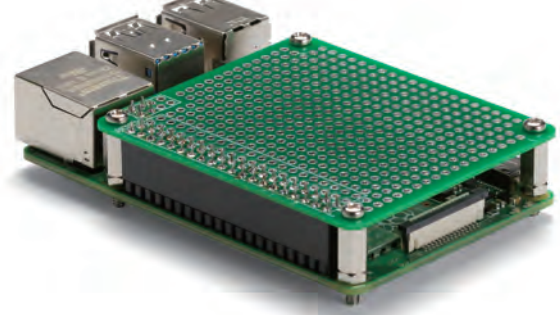
RPCB-4B



RPCB-5



Installation example

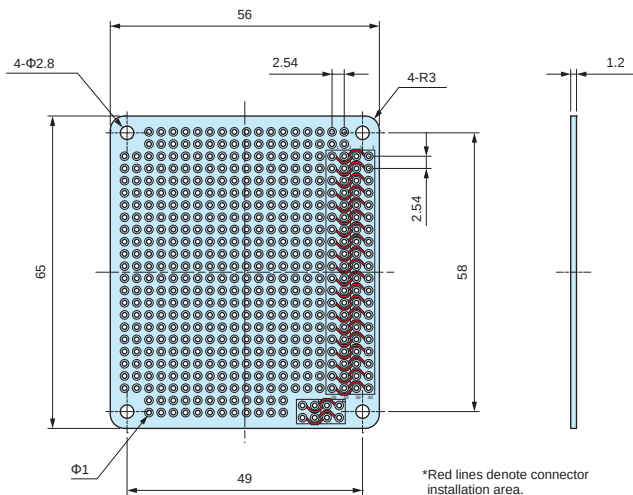


- Material / Finish : Glass epoxy (FR-4) / Through-hole - Lead-free solder resist
- Expansion PCB for standard Raspberry Pi boards. Use to install expansion parts or components.
- Environmentally friendly lead-free solder. RoHS3 compliant.
- Raspberry Pi Board is not included.
- Connector, spacer, and mounting screw set are sold separately.

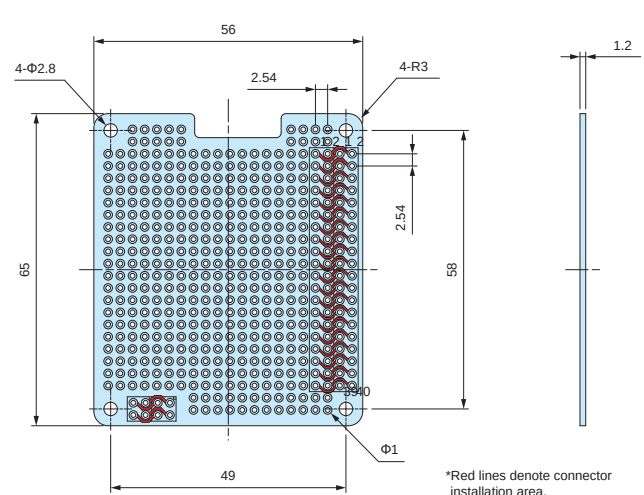
RPCB dimensions

- DXF/DWG/PDF drawings available on our website.

RPCB-4B



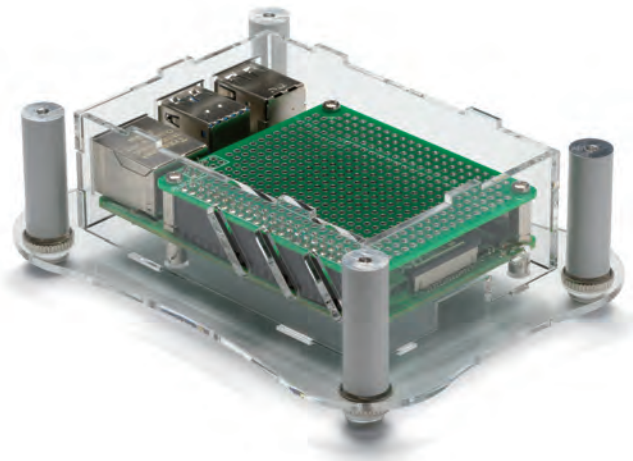
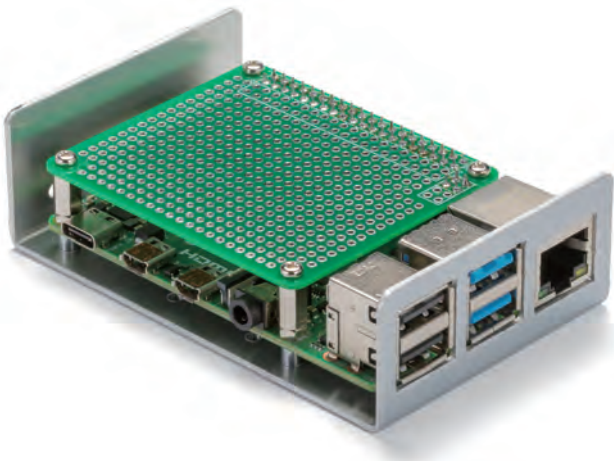
RPCB-5



Product no. / Details

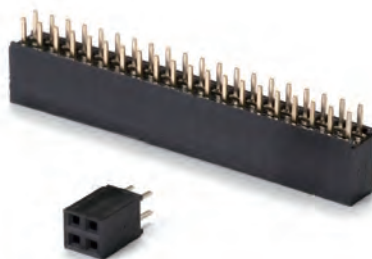
Product no.	Pack of	Suitable model
RPCB-4B	1	Raspberry Pi 4B
NEW RPCB-5	1	Raspberry Pi 5

- Expansion PCB can also be utilized on RPI-4B and RPA series cases.



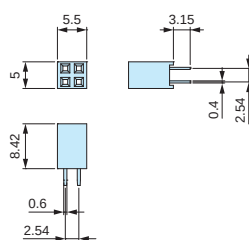
RPS series

PIN SOCKET CONNECTOR for RPCB



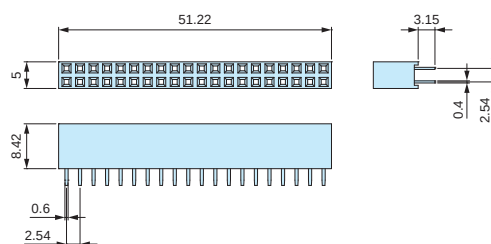
RPS dimensions

RPS2-2



■ DXF/DWG/PDF drawings available on our website.

RPS2-20



■ Material / Color : (Socket) FRPBT UL94V-0 / Black • (Pin) Phosphor bronze

■ 2.54mm hole-to-hole pitch pin socket connector.

Utilize with RPCB expansion PCB for Raspberry Pi series.

Technical Data

Operating temperature : -55°C ~ +105°C
 Rated voltage : DC500V
 Rated current : 1.0A

Product no. / Details

Product no.	Pin layout	Pack of
RPS2-2	4 (2 pin x 2)	1
RPS2-20	40 (20 pin x 2)	1

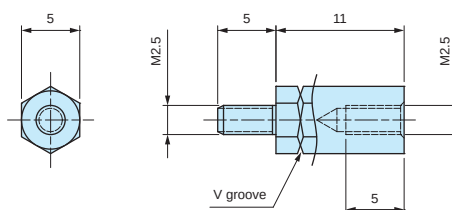
RPSP2.5-11

HEXAGONAL STANDOFF



RPSP2.5-11 dimensions

■ DXF/DWG/PDF drawings available on our website.



■ Material / Finish : Brass / Nickel plated

■ Brass hexagonal standoff with M2.5 threads on both male and female sides.

Utilize with RPCB expansion PCB for Raspberry Pi series.

Product no. / Details

Product no.	Pack of
RPSP2.5-11	4

MT2.5-4

MOUNTING SCREW for RPSP2.5-11



MT2.5-4 dimensions



■ Material / Finish : Steel / Trivalent chromate

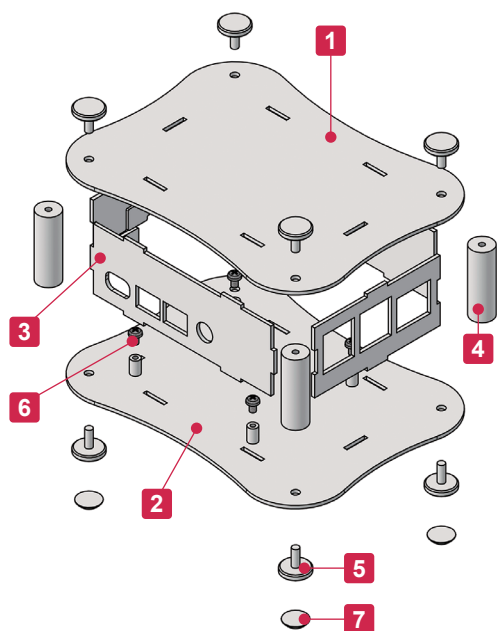
■ Utilize when affixing RPCB expansion PCB.

Product no. / Details

Product no.	Pack of
MT2.5-4	4

ROCK-5A

ROCK 5A/4C+ ALUMINIUM CASE



- Aluminium case compatible with OKdo ROCK 5 Model A and ROCK 4 Model C+ single board computer.
- Curved arc designed aluminium case with corner support columns.
- Knurled thumb screw allows easy hand assembly.
- ROCK single board is not included.

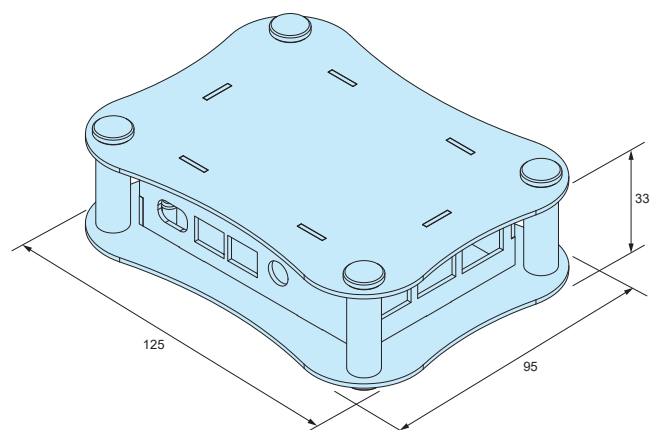
*Note that the panel power button part may easily bend when the board is not installed.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Top cover	1	Aluminium A1100P	Silver / Anodized
2	Bottom cover	1	Aluminium A1100P	Silver / Anodized
3	Panel	4	Aluminium A1100P	Silver / Anodized
4	Pillar	4	Extruded aluminium A6063S-T5	Silver / Anodized
5	Knurled thumb screw (M3-8)	8	Brass	Nickel plated
6	Screw for Board (M2.5-4 pan head)	4	Steel	Trivalent chromate
7	Rubber feet	4	Synthetic rubber	Black

ROCK-5A dimensions

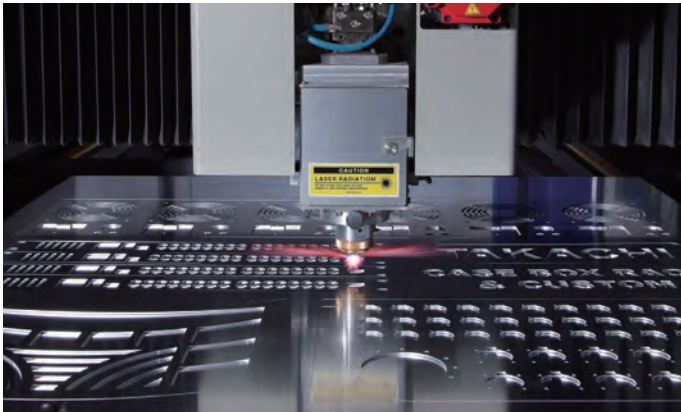
- DXF/DWG/PDF/STP drawings available on our website.



Product no. / Details

Product no.	Weight (g)
ROCK-5A	161.2

Customization services available at TAKACHI



Fiber laser machine allows the processing of aluminium sheets with both high precision and speed.

See page Custom-4 and website for further details.



Digital inkjet printing enables high quality full color printing with minimal tooling cost.

High resolution photo images and color gradation can also be printed with ease.

See page Custom-7 ~ Custom-8 and website for further details.



Installation of self-clinching standoffs and nuts are possible.

TAKACHI has over 100 different types of clinching standoffs and nuts available, which can be installed with precision and speed.

See page Custom-6 and website for further details.

Custom Color Anodization • Custom Color Painting





Technical Data

Operating temperature: -10°C ~ +60°C

Mount Example



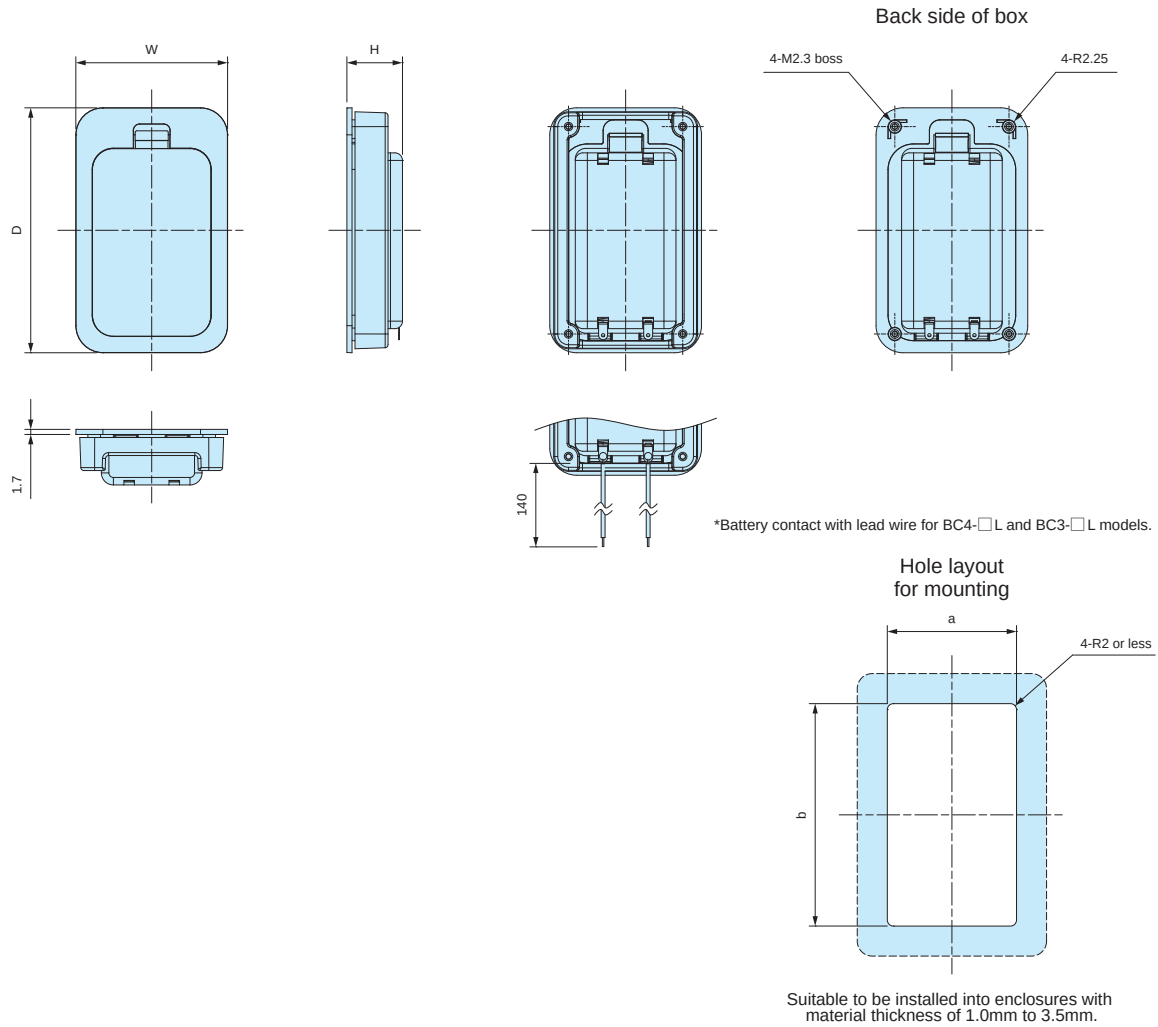
- Suitable to be installed into enclosures with material thickness of 1.0mm to 3.5mm.
- Cover can be opened/closed without any tool for easy battery replacement.
- 5 different battery layouts are available as AA x 2, AA x 3, AA x 4, AAA x 2 and AAA x 4. Each layout comes in 2 models: with lead-wire, and without lead-wire.
- ⊕⊖ markings prevents incorrect placement of battery.
- The dimensions of alkaline or manganese batteries may vary depending on country and brand. Use optional battery cushion sponge to prevent rattling.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Box	1	ABS UL94V-0	Black • Off-white
2	Cover	1	ABS UL94V-0	Black • Off-white
3	Frame	1	ABS UL94V-0	Black • Off-white
4	Battery contact Lead wire (BC-L models)	1 set	Battery contact : Brass & steel wire Lead wire : PVC + Copper wire (UL1007 AWG26)	Nickel plated Black • Red
5	Self-tapping screw	4	Steel	Nickel plated

BC dimensions

- DXF/DWG/PDF/STP drawings available on our website.
- The shape and position of battery contacts vary by model.



Type: Without Lead Wire

Product no. / Details

Product no.		Dimensions					Battery layout	Weight (g)
● Black	● Off-white	W	H	D	a	b		
BC4-2-B	BC4-2-W	40	14.8	78.5	32.5	71	*AAA x 2	24.5
BC4-4-B	BC4-4-W	62	14.8	78.5	54.5	71	*AAA x 4	34.5
BC3-2-B	BC3-2-W	50.5	18.5	81.5	43	74	*AA x 2	31.5
BC3-3-B	BC3-3-W	65.5	18.5	81.5	58	74	*AA x 3	39
BC3-4-B	BC3-4-W	80.5	18.5	81.5	73	74	*AA x 4	46

*Alkaline or manganese batteries

Type: With Lead Wire

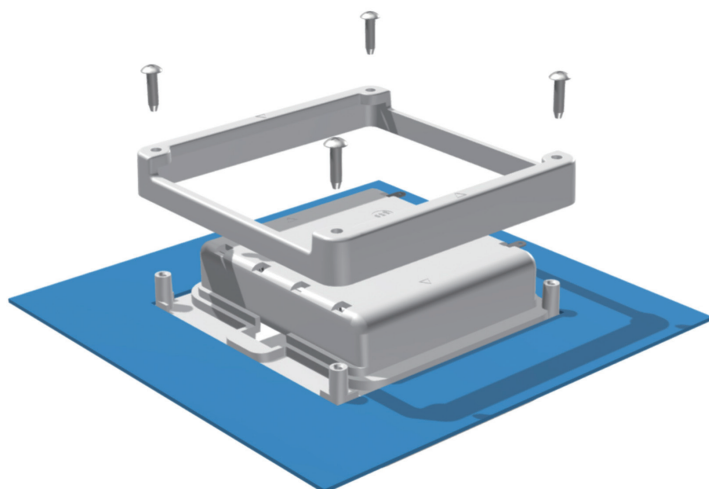
Product no. / Details

Product no.		Dimensions					Battery layout	Weight (g)
● Black	● Off-white	W	H	D	a	b		
BC4-2L-B	BC4-2L-W	40	14.8	78.5	32.5	71	*AAA x 2	25.5
BC4-4L-B	BC4-4L-W	62	14.8	78.5	54.5	71	*AAA x 4	35.5
BC3-2L-B	BC3-2L-W	50.5	18.5	81.5	43	74	*AA x 2	32.5
BC3-3L-B	BC3-3L-W	65.5	18.5	81.5	58	74	*AA x 3	40
BC3-4L-B	BC3-4L-W	80.5	18.5	81.5	73	74	*AA x 4	47

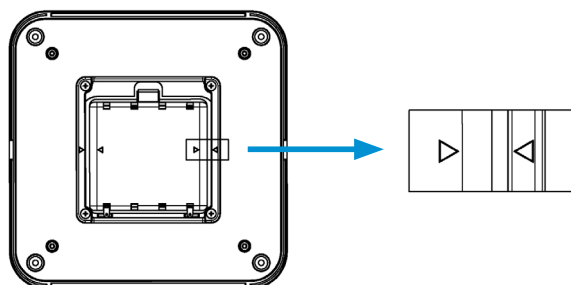
*Alkaline or manganese batteries

How to mount on the enclosures

- Insert battery box into the milled hole first, and fit the frame on the back side. Once mounted, secure the frame with screws.



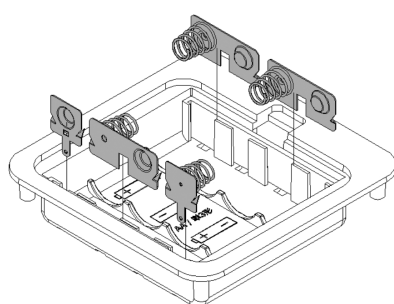
- For BC3-4□ models, ▷ markings are shown on the frame. Install by matching the markings.



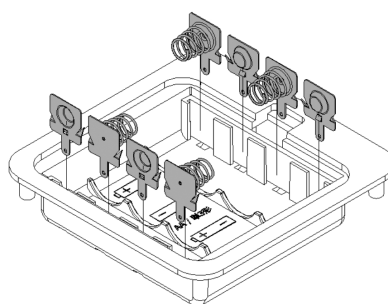
Parallel circuit conversion on BC series battery box

- BC-3□ models can be converted from a series to a parallel circuit. See below illustration for further details.
- IT series (IT-3 models) optional battery contacts can be used for parallel circuit conversion. (See website for more information)
- Use caution when installing or replacing the terminals to avoid the damage to the material.
- Parallel series conversion is available via our customization services.

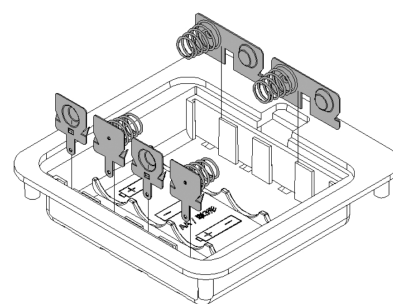
Conversion Example



Series Circuit (Standard)

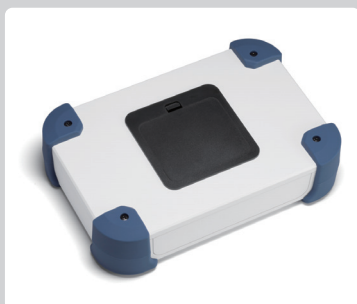


Parallel Circuit (4 batteries)



Parallel Circuit (2 batteries x 2)

Customization Available



For more information, contact us here:

Online form: https://www.takachi-enclosure.com/contact/form_contact
E-mail : sales@takachi-el.co.jp

CR2•CR123A-PC series

LITHIUM BATTERY HOLDER

■ DXF/DWG/PDF drawings available on our website.



Technical Data

Operating temperature: -10°C ~ +60°C

Components

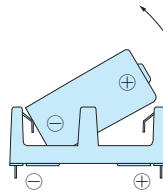
Holder material	Holder color	Contact material	Contact finish
ABS UL94V-0	Black	Phosphor bronze	Nickel plated

Product no. / Details

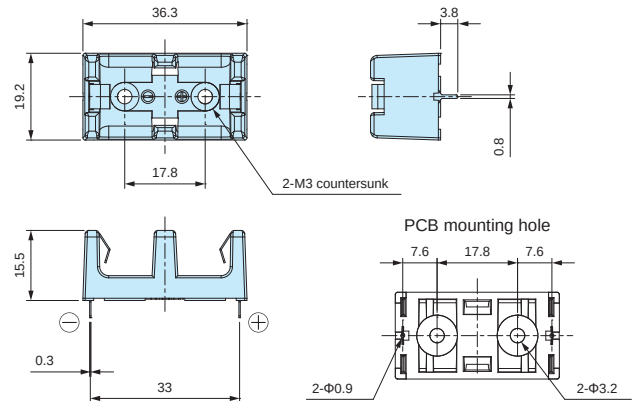
Product no.	Battery	Mounting	Weight (g)
CR2-PC	CR2×1	Through-hole mount pin x 2	4.3
CR123A-PC	CR123A×1	Through-hole mount pin x 2	5.0

Caution

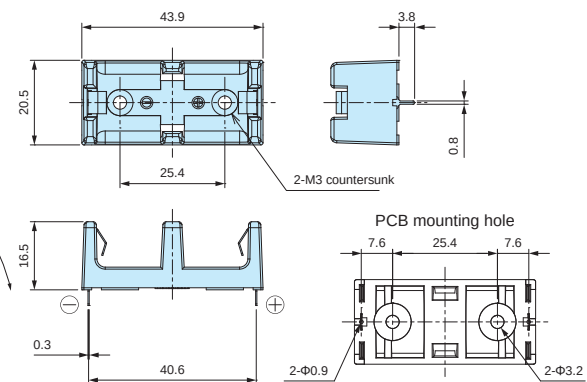
- Please remove the battery from the positive (+) side. Removing it from the negative (-) side may damage the battery or the battery contacts.



CR2-PC dimensions



CR123A-PC dimensions



CR2•CR123A-R series

LITHIUM BATTERY HOLDER with LEAD WIRE

■ DXF/DWG/PDF drawings available on our website.



Technical Data

Operating temperature: -10°C ~ +60°C

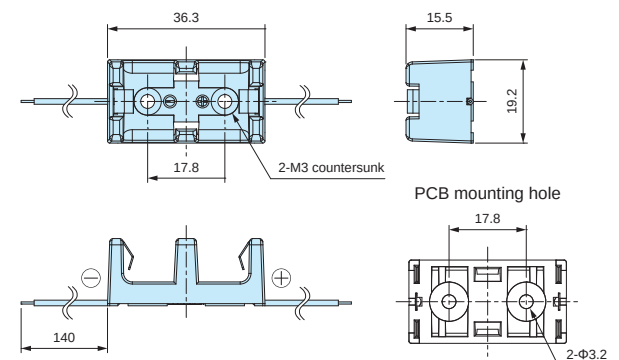
Components

Holder material	Holder color	Contact material	Contact finish
ABS UL94V-0	Black	Phosphor bronze	Nickel plated

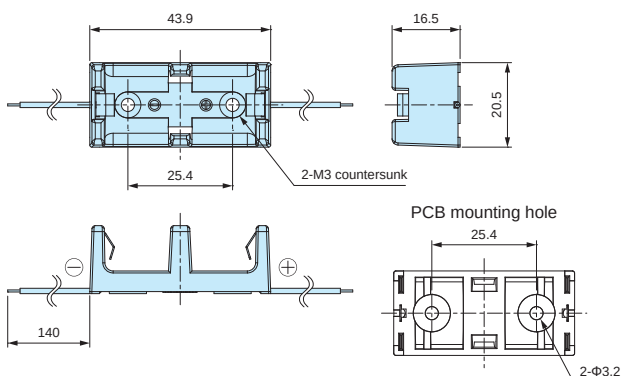
Product no. / Details

Product no.	Battery	Lead wire	Weight (g)
CR2-R	CR2×1	UL1007 AWG26 L=140	5.3
CR123A-R	CR123A×1	UL1007 AWG26 L=140	6.0

CR2-R dimensions



CR123A-R dimensions



CBS series**RUBBER STRAIN RELIEF CORD PROTECTOR****Application example**

Installed onto SIC series

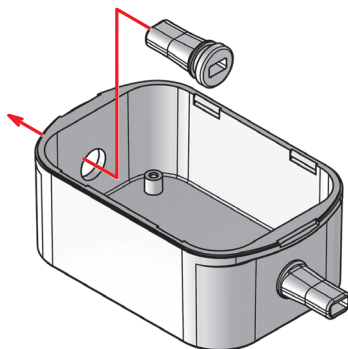


Installed onto EX series

- A total of 8 different sizes available for selection.
- Strain relief cord protector helps relieve flex stress and prevents damage to cables.
※ Does not prevent cables from being dislodged.
- 2 types - round and flat - are available.
- Insert from the inner side of the case / panel of the enclosure.
- Made from high heat resistant silicone material.

Technical Data

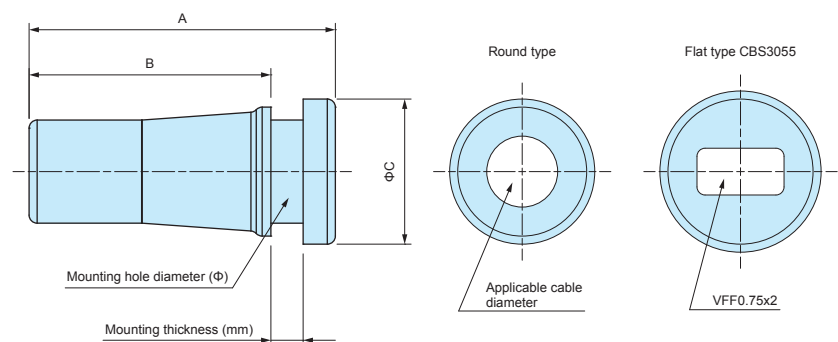
Operating temperature:
-40°C ~ +100°C

Installation steps

- ① Insert into the mounting hole from the inside.
 - ② Thread the cable through the protector.
- ※ Protector must be installed first.

CBS dimensions

■ DXF/DWG/PDF drawings available on our website.

**Product no. / Details**

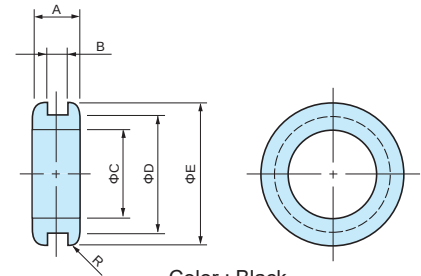
Product no.		A	B	C	Applicable cable diameter / type	Mounting hole diameter (Φ)	Mounting thickness (mm)	Material	Pack of
● Black	● Off-white								
CBS3055-15B	CBS3055-15W	18.5	15	10	VFF0.75x2	7.6 ~ 7.8	1.5 ~ 2.0	Silicone	10
CBS3055-20B	CBS3055-20W	19	15	10	VFF0.75x2	7.6 ~ 7.8	2.0 ~ 2.5	Silicone	10
CBS35-15B	CBS35-15W	16.5	13	8	Φ3.5	5.6 ~ 5.8	1.5 ~ 2.0	Silicone	10
CBS35-20B	CBS35-20W	17	13	8	Φ3.5	5.6 ~ 5.8	2.0 ~ 2.5	Silicone	10
CBS45-15B	CBS45-15W	18.5	15	9	Φ4.5	6.6 ~ 6.8	1.5 ~ 2.0	Silicone	10
CBS45-20B	CBS45-20W	19	15	9	Φ4.5	6.6 ~ 6.8	2.0 ~ 2.5	Silicone	10
CBS60-15B	CBS60-15W	20.5	17	10.5	Φ6.0	8.1 ~ 8.3	1.5 ~ 2.0	Silicone	10
CBS60-20B	CBS60-20W	21	17	10.5	Φ6.0	8.1 ~ 8.3	2.0 ~ 2.5	Silicone	10

NG series

RUBBER GROMMET



■ DXF/DWG/PDF drawings available on our website.



■ A total of 40 different sizes available for selection.

Product no. / Details

Product no.	Old product no.	A	B	C	D	E	R	Mounting thickness	Mounting hole diameter	Material	Hardness	Pack of	Operating temperature
NG2.3-8	—	4	0.8	2.3	5.8	7.8	0.2	0.5 ~ 0.8	5.8 ~ 6.1	NBR	A53°	10	-40°C ~ +100°C
NG3-10	NG-74	4	1	3	5	7	1	0.8 ~ 1.0	5.0 ~ 5.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG3-20	NG-742	5	2	3	5	7	1	1.8 ~ 2.0	5.0 ~ 5.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG3.5-12	NG-79-1	3.7	1.2	3.5	6	9	0.6	1.0 ~ 1.2	6.0 ~ 6.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG4-15	—	7	1.5	4	6.7	10.2	2.5	1.2 ~ 1.6	6.7 ~ 7.2	PVC	A60°	10	-15°C ~ + 75°C
NG5-10	NG-79-A1	4	1	5	8	11	0.6	0.8 ~ 1.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-15	NG-79-A	4.5	1.5	5	8	11	0.6	1.2 ~ 1.6	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-20	NG-79-A2	5	2	5	8	11	0.6	1.8 ~ 2.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG5-30	NG-79-B	6	3	5	8	11	0.6	2.8 ~ 3.0	8.0 ~ 8.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG6.5-15	—	7.5	1.5	6.5	9.8	15.2	2.5	1.2 ~ 1.6	9.8 ~ 10.3	PVC	A60°	10	-15°C ~ + 75°C
NG7-15	NG-79-C	4.5	1.5	7	10	13	0.6	1.2 ~ 1.6	10.0 ~ 10.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG7-20	—	6.7	2	7	10.2	15	2	1.8 ~ 2.0	10.2 ~ 10.7	PVC	A60°	10	-15°C ~ + 75°C
NG7-30	NG-79-D	6	3	7	10	13	0.6	2.8 ~ 3.0	10.0 ~ 10.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG8-15	—	8.7	1.5	8	12	16	3.5	1.2 ~ 1.6	12.0 ~ 12.5	PVC	A60°	10	-15°C ~ + 75°C
NG8-20	—	6.7	2	8	10	16	2	1.8 ~ 2.0	10.0 ~ 10.5	PVC	A60°	10	-15°C ~ + 75°C
NG9-15	NG-79-E	4.5	1.5	9	12	15	0.6	1.2 ~ 1.6	12.0 ~ 12.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG9-20	—	7.9	2	9	15	19.6	2.5	1.8 ~ 2.0	15.0 ~ 15.5	PVC	A60°	10	-15°C ~ + 75°C
NG9-30	NG-79-F	6	3	9	12	15	0.6	2.8 ~ 3.0	12.0 ~ 12.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG10-15	—	8.7	1.5	10	13.3	18	3.5	1.2 ~ 1.6	13.3 ~ 13.8	PVC	A60°	10	-15°C ~ + 75°C
NG10-20	—	7.2	2	10	11.2	17	2	1.8 ~ 2.0	11.2 ~ 11.7	PVC	A60°	10	-15°C ~ + 75°C
NG11-15	NG-79-G	5.5	1.5	11	15	19	1	1.2 ~ 1.6	15.0 ~ 15.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG11-30	NG-79-H	7	3	11	15	19	1	2.8 ~ 3.0	15.0 ~ 15.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG12-25	—	9.6	2.5	12	14.5	21.5	3.5	2.3 ~ 2.5	14.5 ~ 15	PVC	A60°	10	-15°C ~ + 75°C
NG13-15	NG-79-J	5.5	1.5	13	17	21	1	1.2 ~ 1.6	17.0 ~ 17.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG13-30	NG-79-K	7	3	13	17	21	1	2.8 ~ 3.0	17.0 ~ 17.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG14-25	—	9.6	2.5	14	16.5	23.5	3.5	2.3 ~ 2.5	16.5 ~ 17	PVC	A60°	10	-15°C ~ + 75°C
NG15-15	NG-79-L	5.5	1.5	15	19	23	1	1.2 ~ 1.6	19.0 ~ 19.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG15-30	NG-79-M	7	3	15	19	23	1	2.8 ~ 3.0	19.0 ~ 19.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG16-25	—	9.7	2.5	16	19	25.8	3.5	2.3 ~ 2.5	19.0 ~ 19.5	PVC	A60°	10	-15°C ~ + 75°C
NG18-25	—	9.4	2.5	18	21.5	27.5	3	2.3 ~ 2.5	21.5 ~ 22	PVC	A60°	10	-15°C ~ + 75°C
NG20-15	NG-79-N	6.5	1.5	20	25	30	1.2	1.2 ~ 1.6	25.0 ~ 25.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG20-25	—	9	2.5	20	24	30	3.5	2.3 ~ 2.5	24.0 ~ 24.5	PVC	A60°	10	-15°C ~ + 75°C
NG20-30	NG-79-O	8	3	20	25	30	1.2	2.8 ~ 3.0	25.0 ~ 25.3	EPDM	A50±5°	10	-30°C ~ +100°C
NG22-30	—	11.8	3	22	27	35.5	4	2.8 ~ 3.0	27.0 ~ 27.5	PVC	A60°	10	-15°C ~ + 75°C
NG25-15	NG-79-P	6.5	1.5	25	30	35	1.2	1.2 ~ 1.6	30.0 ~ 30.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG25-30	NG-79-Q	8	3	25	30	35	1.2	2.8 ~ 3.0	30.0 ~ 30.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG30-15	NG-79-R	7.5	1.5	30	36	42	1.2	1.2 ~ 1.6	36.0 ~ 36.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG30-30	NG-79-S	9	3	30	36	42	1.2	2.8 ~ 3.0	36.0 ~ 36.5	EPDM	A50±5°	10	-30°C ~ +100°C
NG35-30	—	12	3	35	38	52	4	2.8 ~ 3.0	38.0 ~ 38.5	PVC	A60°	5	-15°C ~ + 75°C
NG40-30	—	12	3	40	48.5	62	4	2.8 ~ 3.0	48.5 ~ 49.0	PVC	A60°	5	-15°C ~ + 75°C

NB series

NYLON SNAP BUSHING GROMMET

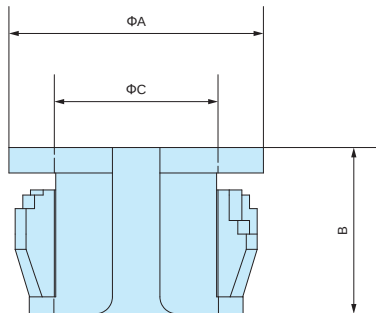
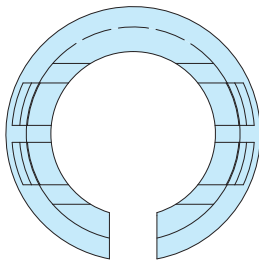


Installation example

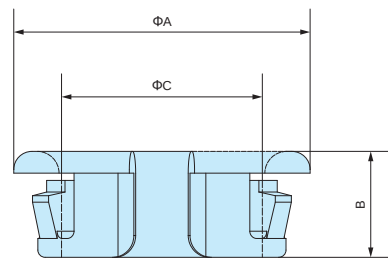
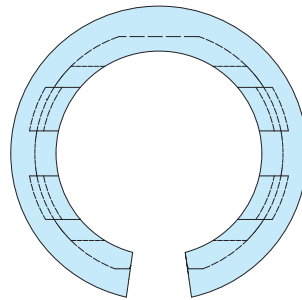


■ DXF/DWG/PDF/STP drawings available on our website.

■ Bushing grommet to be installed on the cut edge of the hole to protect cables and components from damage.



NB7-15, NB10-35, NB11-30,
NB13-35, NB15-35



NB8-10, NB11-10, NB14-10,
NB17-10, NB20-10, NB22-15

Product no. / Details

■ Material / Color : PA66 / Black

Product no.	A	B	C	Mounting hole	Mounting thickness (mm)	Weight (g)	Pack of
NB 7-15	11.9	6.5	7.3	Φ 9.5	0.6 ~ 1.6	0.2 (1 piece)	10
NB 8-10	12.4	6	7.6	Φ 9.5	0.8 ~ 1.2	0.2 (1 piece)	10
NB10-35	15	9.8	9.7	Φ12.7	0.8 ~ 3.3	0.5 (1 piece)	10
NB11-30	16.6	10.3	10.6	Φ14.3	0.8 ~ 3.2	0.5 (1 piece)	10
NB11-10	16.8	7.3	10.8	Φ12.7	0.8 ~ 1.2	0.4 (1 piece)	10
NB13-35	18.4	10.4	12.8	Φ15.9	0.8 ~ 3.3	0.7 (1 piece)	10
NB14-10	20.3	7.3	14.1	Φ15.9	0.8 ~ 1.0	0.5 (1 piece)	10
NB15-35	20.7	10.4	15.1	Φ19.5	0.8 ~ 3.3	0.9 (1 piece)	10
NB17-10	22.5	7.3	16.5	Φ19.5	0.8 ~ 1.0	0.7 (1 piece)	10
NB20-10	26	7.3	20	Φ22.0	0.8 ~ 1.0	0.8 (1 piece)	10
NB22-15	28.6	7.9	22	Φ25.4	0.8 ~ 1.6	1.3 (1 piece)	10

SG series

RUBBER MEMBRANE GROMMET

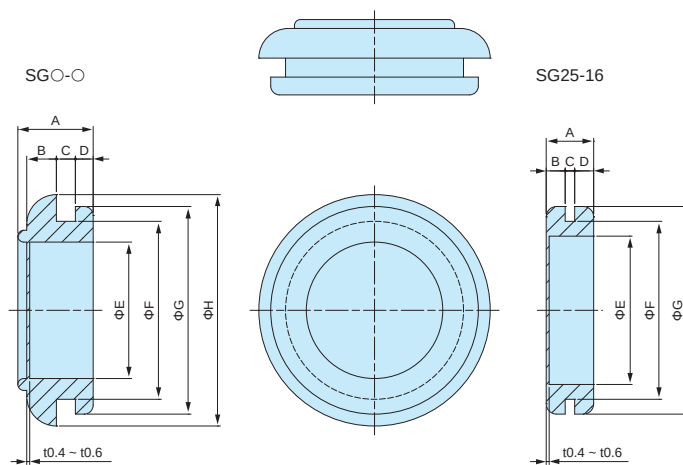
■ DXF/DWG/PDF drawings available on our website.



Components

Material	Hardness	Color
EPDM	A50 ± 5	Black

■ Membrane thickness = 0.4 ~ 0.6mm



Technical Data

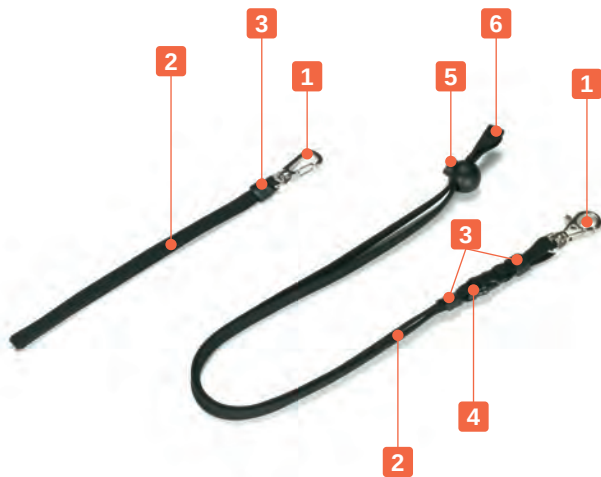
Operating temperature: -30°C ~ +100°C

Product no. / Details

Product no.	A	B	C	D	E	F	G	H	Mounting thickness	Mounting hole	Pack of
SG4.5-23	8.5	3.5	2.3	2	4.5	9	13	16	2.0 ~ 2.3	9.0 ~ 9.5	10
SG7-16	6.3	2.5	1.6	1.5	7	12	16	19	1.2 ~ 1.6	12.0 ~ 12.5	10
SG9-23	8	2.7	2.3	2	9	14	18	21	2.0 ~ 2.3	14.0 ~ 14.5	10
SG11-16	8.1	3.5	1.6	2	11	16	20	23	1.2 ~ 1.6	16.0 ~ 16.5	10
SG13-23	8.8	3.5	2.3	2	13	18	22	25	2.0 ~ 2.3	18.0 ~ 18.5	10
SG15-16	9.1	4	1.6	2.5	15	20	24	27	1.2 ~ 1.6	20.0 ~ 20.5	10
SG17-23	9.8	4	2.3	2.5	17	22	26	29	2.0 ~ 2.3	22.0 ~ 22.5	10
SG19-23	11.3	5	2.3	3	19	24	28	31	2.0 ~ 2.3	24.0 ~ 24.5	10
SG19-32	12.2	5	3.2	3	19	26	31	35	3.0 ~ 3.2	26.0 ~ 26.5	10
SG21-23	11.8	5	2.3	3	21	28	33	37	2.0 ~ 2.3	28.0 ~ 28.5	10
SG23-32	12.7	5	3.2	3	23	30	35	39	3.0 ~ 3.2	30.0 ~ 30.5	10
SG25-16	8	3.2	1.6	3.2	25	30	35	—	1.2 ~ 1.6	30.0 ~ 30.5	10
SG25-23	11.8	5	2.3	3	25	32	37	41	2.0 ~ 2.3	32.0 ~ 32.5	10
SG27-32	12.7	5	3.2	3	27	34	39	43	3.0 ~ 3.2	34.0 ~ 34.5	10
SG28-23	13.8	6	2.3	4	28	36	42	45	2.0 ~ 2.3	36.0 ~ 36.5	10
SG30-32	14.7	6	3.2	4	30	38	44	48	3.0 ~ 3.2	38.0 ~ 38.5	10
SG34-32	14.7	6	3.2	4	34	42	48	52	3.0 ~ 3.2	42.0 ~ 42.5	10

STP series

STRAP



- Strap with a metal hook
- Recommended to be used with CR key ring.

Wrist strap (STP-200)



Neck strap (STP-450)



Neck strap detail



- Only the neck strap has a joint and an adjuster.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Metal hook	1	Diecast zinc & steel	Nickel plated
2	Strap	1	Nylon / Polyester	Black
3	Cap	1 / 2	Polyurethane / Elastomer	Black
4	Joint (Neck strap only)	1	Polyacetal	Black
5	Adjuster (Neck strap only)	1	Nylon	Black
6	Clamp (Neck strap only)	1	PE	Black

Product no. / Details

Product no.	Strap width	Strap length	Strap material	Cap material
STP-200	8	200	Nylon	Polyurethane x 1
STP-450	10	450	Polyester	Elastomer x 2

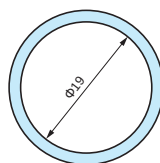
CR-20

KEY RING

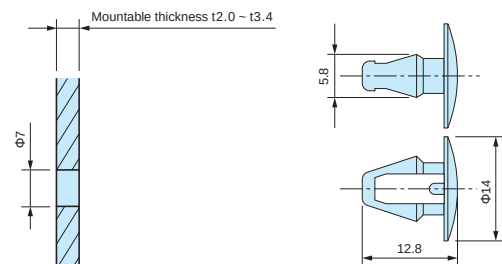


- Hole milling is required for case installation.

CR-20 dimensions



- DXF/DWG/PDF drawings available on our website.



Components

Part name	Material	Color / Finish
Ring	SWRM 6 Steel	Nickel plated
Insert clip	Nylon	Black

Product no. / Details

Product no.	Ring Φ	Installation hole	Mounting thickness
CR-20	Φ19	Φ7	t2.0 ~ t3.4

GDH series

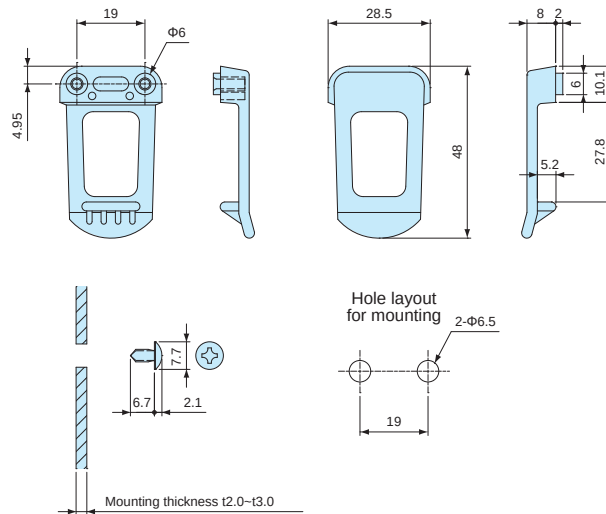
PLASTIC BELT CLIP



Installation example

GDH dimensions

■ DXF/DWG/PDF drawings available on our website.



Components

No.	Part name	Pcs	Material	Color / Finish
1	Clip	1	ABS UL94HB	White • Black
2	Screw	2	Steel M3.5-6	Zinc plated

Product no. / Details

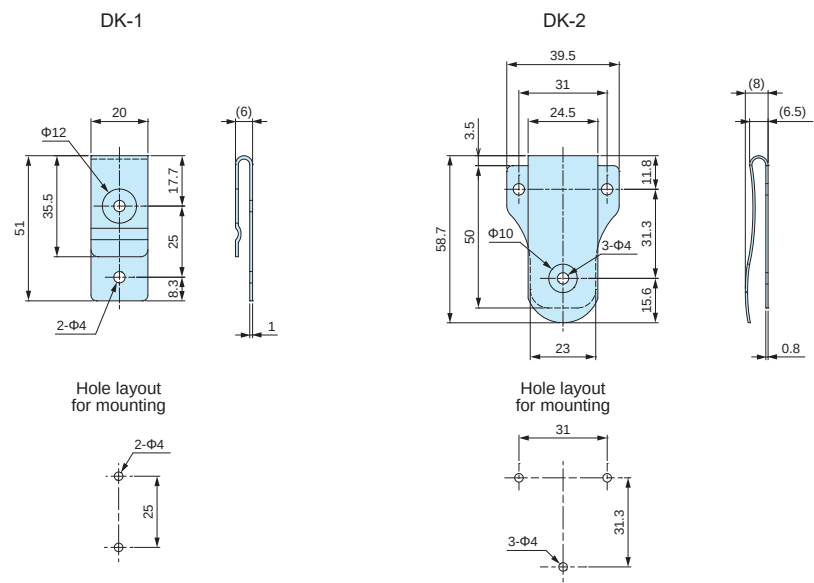
Product no.		W	H	D
● White	● Black			
GDH-1W	GDH-1B	28.5	10	48

DK series

STEEL BELT CLIP

DK dimensions

■ DXF/DWG/PDF drawings available on our website.

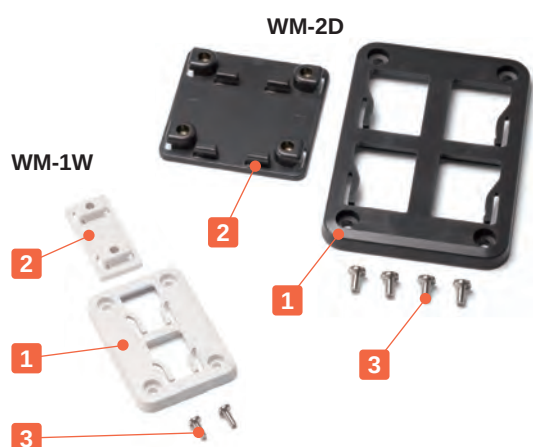


Product no. / Details

Product no.	Material	Finish
DK-1	Steel SPCC t=1.0	Chrome plated
DK-2	Steel SPCC t=0.8	Chrome plated

WM series

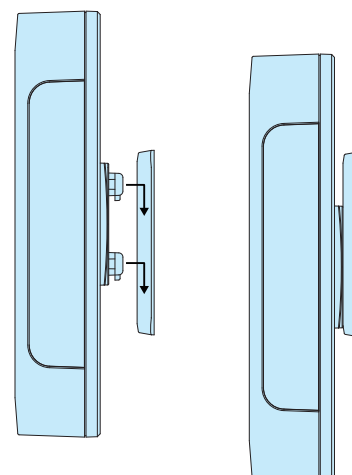
SUSPENSION BRACKET



Installation example



How to install



- Plastic wall mounting bracket. Easy attachment and removal.
- Large and small bracket types are available.
- Applicable to be used on plastic or metallic enclosures with a panel thickness of 0.8 ~ 3.5mm.
- To attach the suspension hook onto the enclosure, hole milling is required.
- Please be aware of the insertion direction of the suspension hook against the mounting base when attaching.
- DXF/DWG/PDF/STP drawings available on our website.

Technical Data

Max load : WM-1 - 2kg
WM-2 - 5kg

* The max load values listed are static load values only. Use caution when handling.

Components

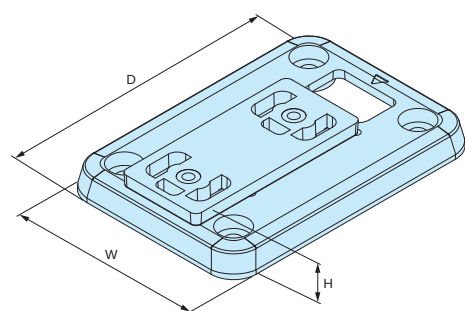
No.	Name	Pcs	Material	Color / Finish
1	Mounting base	1	PC + ABS UL94HB	Off-white • Dark gray
2	Suspension hook	1	PC + ABS UL94HB	Off-white • Dark gray
3	Screw	2 (WM-1) 4 (WM-2)	Steel	Nickel plated

Included Screw

WM-1□ : Bind M3-8
WM-2□ : Bind M4-88

Product no. / Details

Product no.		W	H	D	Mountable thickness	Weight (g)
● Off-white	● Dark gray					
WM-1W	WM-1D	45	9	65	t0.8~t3.5	11.5
WM-2W	WM-2D	80	11	115	t0.8~t3.5	48



PMB-1

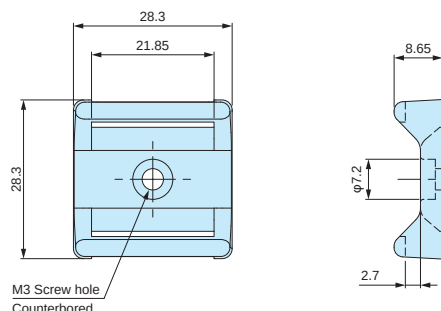
POLE MOUNTING BRACKET



Installation example



- DXF/DWG/PDF drawings available on our website.



- Small size pole mounting bracket suitable for indoor use.
- Installation screws (M3 size) are separately sold.
See page HES • HOS • MT for compatible MT3-4 screws.
- Minimum applicable pole diameter is $\Phi 35$.
- Use SNB • PKB • SCT mounting belt to install onto a pole.

Product no. / Details

Material / Color : PA66+GF (UL94HB) / Black

Product no.	Maximum load (kg)	Weight (g)	Pack of
PMB-1	1	3 (1 piece)	2

NMG series

NEODYMIUM MAGNET

Round magnet

■ DXF/DWG/PDF drawings available on our website.

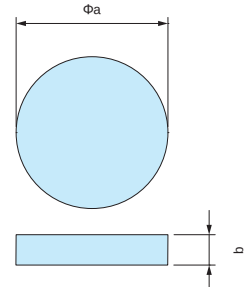


- Material / Finish: Neodymium / Nickel plated
- Please attach using a strong adhesive.

Product no. / Details

Product no.	a	b	Weight (g)	Flux Density	Absorption
NMG3-15N	15	3	4	214.4 mT	2.44 kgf
NMG3-20N	20	3	7.1	170.7 mT	3.26 kgf
NMG5-22N	22	5	11.4	247.2 mT	5.91 kgf
NMG5-25N	25	5	18.4	221.9 mT	6.89 kgf

NMG dimensions



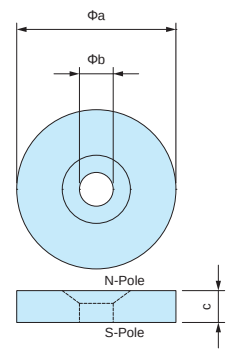
Round magnet with countersunk hole



- Please fasten with a screw.

Product no. / Details

Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-15M3	15	3.2	3	M3	3.8	214.3 mT	2.33 kgf
NMG3-20M3	20	3.2	3	M3	6.9	170.6 mT	3.17 kgf
NMG5-22M4	22	4.3	5	M4	13.7	247.2 mT	5.68 kgf
NMG5-25M5	25	5.3	5	M5	17.6	221.9 mT	6.58 kgf



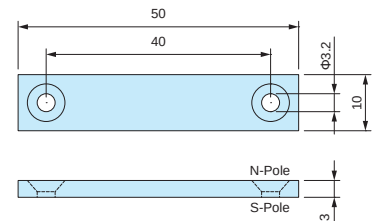
Rectangular magnet with countersunk holes



- Please fasten with a screw.

Product no. / Details

Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-50M3	50	10	3	M3	11.3	210.0 mT	9.1 kgf



Example 1 The magnetic force remains strong even through plastic.



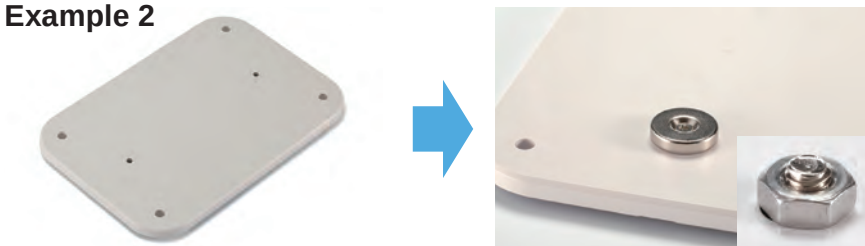
Make recessed pocket on the inside wall.

Glue on.



Attach onto a metallic surface.

Example 2



Make holes

Fasten with a screw and nut.



Attach onto a metallic surface.

CAUTION: Handle with care to avoid personal injury or damage to the magnet.

DST series

DOUBLE-SIDED MOUNTING TAPE



- Super strong double-sided mounting tape with excellent cold and heat resistance.
- Allow cases to be attached onto any place.
- Easily attached onto walls where holes cannot be drilled.
- Can be used with a range of products, such as small IoT type enclosures.

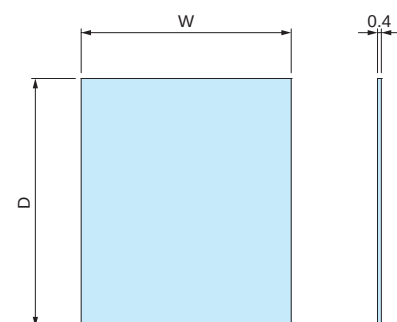
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

Notes:

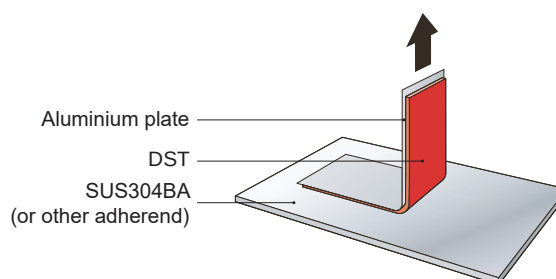
Due to the strong adhesive strength,
do ensure that the surface or product is suitable to be adhered onto.

Technical Data

Operating temperature:
-30°C ~ +200°C

**Adhesion Performance (90° peel adhesion)**

90° direction peel force N/cm	Stainless steel (SUS304BA)	24
	Aluminium (A1050P)	21
	Bonded steel plate (SECC)	30
	ABS	10
	Acrylic (PMMA)	16
	Polypropylene	6
	Polyethylene (HDPE)	3
	Glass	27

**[Test Method]**

Backed with specially treated Aluminium foil (130 μ m), crimped with a 10kg steel roller back and forth twice, cured at room temperature for 72 hours, tensile speed 300mm/min.

*Data values listed are test results based on the test conditions, and are to be used as reference only.

*Adhesive strength and other physical properties vary depending on the adherend, bonding and curing conditions, and other factors.

Product no. / Details

■ Material / Color: Acrylic foam base, acrylic adhesive / gray

Product no.	W	D	Suitable models	Weight (g)	Pack of
NEW DST14-22	14	22	SIC2-4-1 SW-30	0.3 / pc	5
NEW DST14-36	14	36	SIC2-5-1	0.4 / pc	5
DST18-40	18	40	SIC3-5-2 SW-(T)40 • 60	0.7 / pc	5
DST22-26	22	26	SIC3-4-2 SW-(T)40	0.5 / pc	5
DST24-48	24	48	SIC3-6-2 SW-50 • 53 • (N)(T)55 • (N)65 TW/TWN4-2-5 • 4-2-6 • 4-2-8	0.8 / pc	5

AST series

INSERT NUT ADHESIVE STANDOFF

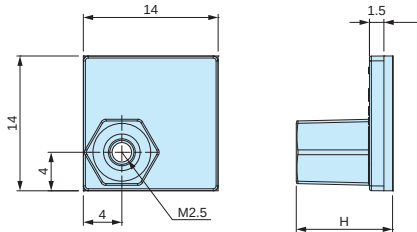


- Double-sided adhesive tape allows the standoff to be mounted quickly and easily; allows PCB mounting in non-boss enclosures.
- Convenient for installing PCBs into enclosures without the need for customization.
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

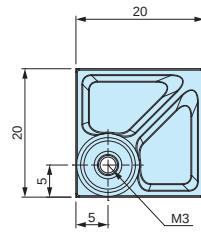
AST dimensions

■ DXF/DWG/PDF/STP drawings available on our website.

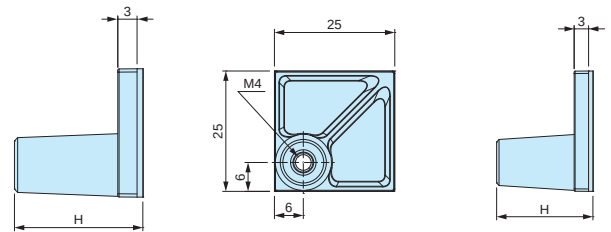
AST2.5-□



AST3-□



AST4-□



Product no. / Details

Bulk package

Product no	H dimension	Included screw	Recommended PCB thickness (mm)	Recommended torque (N · m)	Weight (g)	Pack of	Product no	Pack of
AST2.5-5B	5	M2.5-5 pan head	1.0 ~ 2.0	0.3	0.6 (1 piece)	4	AST2.5-5B-P	100
AST2.5-10B	10	M2.5-5 pan head	1.0 ~ 2.0	0.3	0.8 (1 piece)	4	AST2.5-10B-P	100
AST3-6B	6	M3-6 pan head	1.0 ~ 3.0	0.4	1.5 (1 piece)	4	AST3-6B-P	100
AST3-10B	10	M3-6 pan head	1.0 ~ 3.0	0.4	1.6 (1 piece)	4	AST3-10B-P	100
AST3-15B	15	M3-6 pan head	1.0 ~ 3.0	0.4	1.8 (1 piece)	4	AST3-15B-P	100
AST3-20B	20	M3-6 pan head	1.0 ~ 3.0	0.4	2.1 (1 piece)	4	AST3-20B-P	100
AST4-10.5B	10.5	M4-8 pan head	1.0 ~ 3.5	0.8	2.6 (1 piece)	4	AST4-10.5B-P	50
AST4-20B	20	M4-8 pan head	1.0 ~ 3.5	0.8	3.2 (1 piece)	4	AST4-20B-P	50

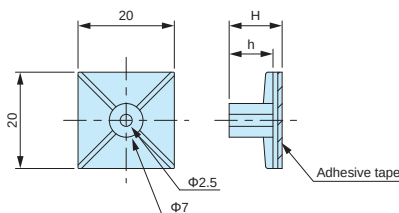
- Base material / color : Nylon 66 (UL94V-2) / Black
- Nut • screw material / finish : Steel / Trivalent chromate

- Bulk packaging is available. See "Bulk package" column above.
- Screws are not included for bulk packages.

ASR series

ADHESIVE PCB STANDOFF

ASR dimensions



■ DXF/DWG/PDF drawings available on our website.



Product no. / Details

■ Material / Color: Nylon 66 (UL94V-2) / Natural

Product no	H	h	Weight (g)	Pack of
ASR- 5	5.1	3.1	0.9 (1 piece)	10
ASR- 6	6.4	4.4	1.0 (1 piece)	10
ASR- 7	7.2	5.1	0.9 (1 piece)	10
ASR- 8	8.1	6.3	0.9 (1 piece)	10
ASR- 9	9	7	1.0 (1 piece)	10
ASR-11	11	9	1.0 (1 piece)	10
ASR-13	12.7	10.7	1.2 (1 piece)	10
ASR-14.5	14.7	12.8	1.1 (1 piece)	10
ASR-16	15.9	13.9	1.3 (1 piece)	10
ASR-19	19.1	17.1	1.4 (1 piece)	10

- M3 tapping screw use adhesive standoff.
Recommended to be used with EM-3 or EM-3-6 self-tapping screws (See page 398).
- Please ensure that surface is cleaned and grease-free before adhering.
- Once removed, it cannot be adhered on again.

Technical Data

Recommended torque : 0.4N · m

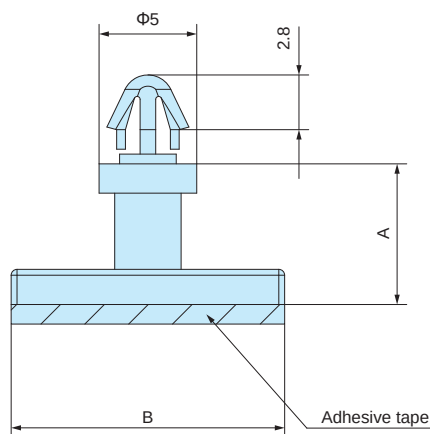
ASL series

LOCKING PCB ADHESIVE STANDOFF

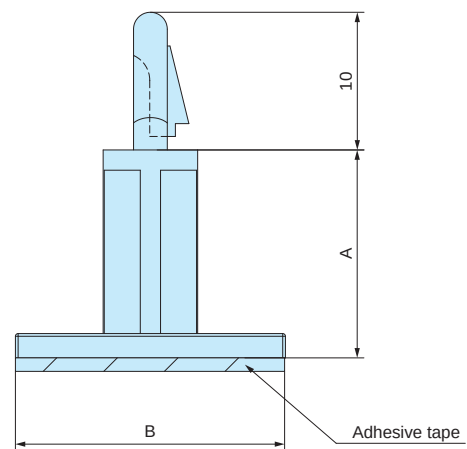


- Standoff for securing PCB by simply snapping it in.
- Adhesive standoff can be freely and easily affixed on.
- Once removed, it cannot be adhered on again.

ASL-3 ~ 12



ASL-15 & 19

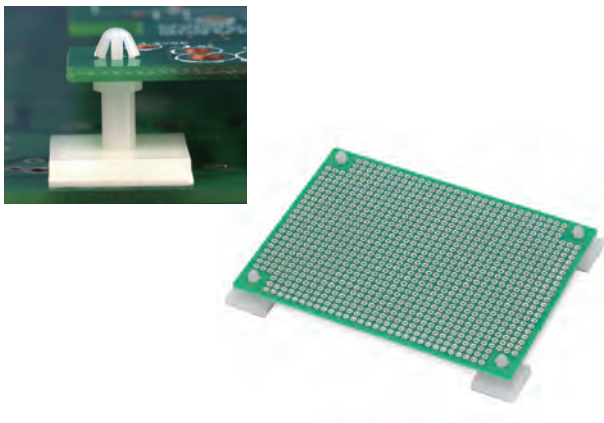


Product no. / Details

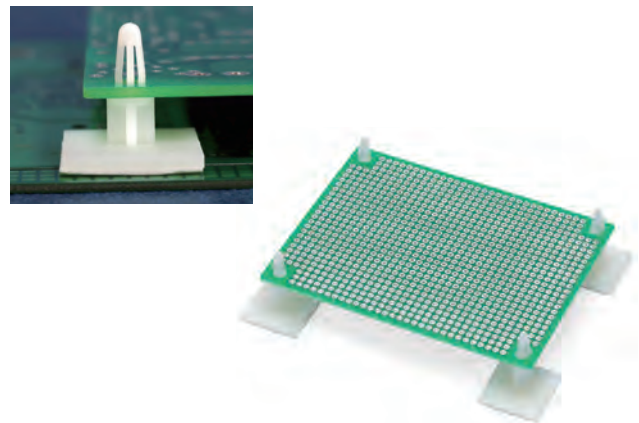
■ Material / Color : PA66 / Natural

Product no.	A	B	Mounting hole	Mounting thickness	Weight (g)	Pack of
ASL- 3	2.7	□14	Φ3	1.2 ~ 1.6	0.5 (1 piece)	10
ASL- 4	4	□14	Φ3	1.2 ~ 1.6	0.5 (1 piece)	10
ASL- 6	5.6	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL- 7	7.2	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL- 9	9.2	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-10	9.7	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-12	11.9	□14	Φ3	1.2 ~ 1.6	0.6 (1 piece)	10
ASL-15	15.4	□20	Φ4	1.2 ~ 1.7	1.3 (1 piece)	10
ASL-19	18.5	□18	Φ4	1.2 ~ 2.0	1.4 (1 piece)	10

APPLICATION EXAMPLE : ASL-3 ~ 12



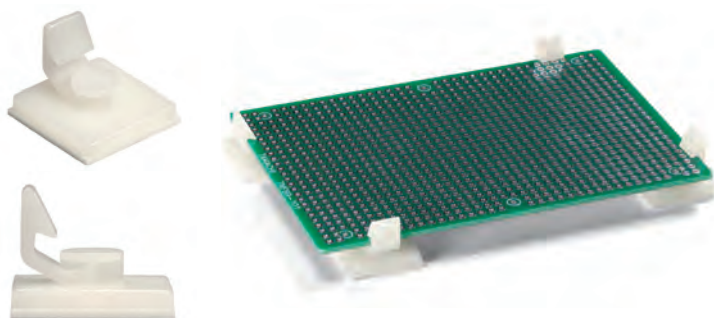
APPLICATION EXAMPLE : ASL-15 & 19



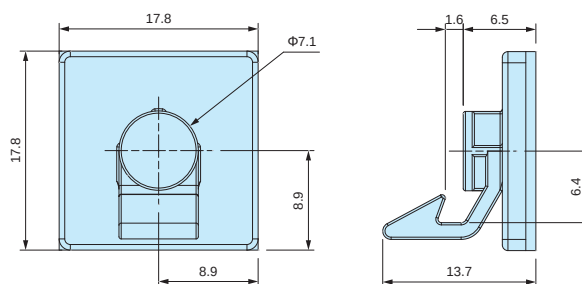
ULCK series

SCREWLESS PCB ADHESIVE STANDOFF

Application example



ULCK dimensions



■ DXF/DWG/PDF drawings available on our website.

- Securing of a 1.6mm thick PCB made easy by simply snapping it in.
- Adhesive standoff can be freely and easily affixed on.
- Once removed, it cannot be adhered on again.

Product no. / Details

■ Material / Color : PA66 UL94V-2 / Natural

Product no.	Weight (g)	Pack of
ULCK-6.4	1.3 (1 pc)	4

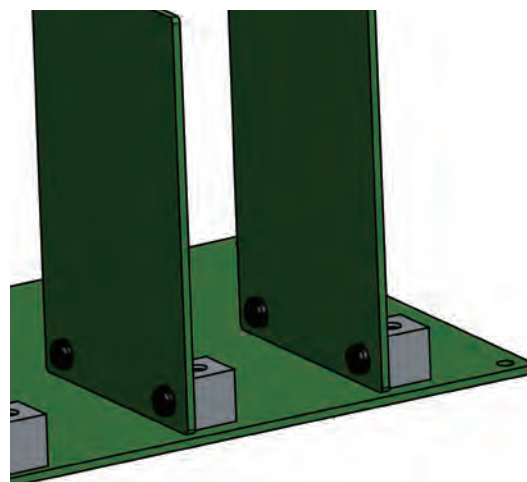
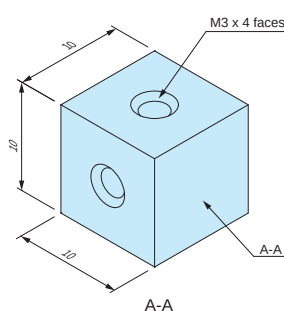
CUBE series

CUBE STANDOFF

■ DXF/DWG/PDF/STP drawings available on our website.

CUBE10-M3

CUBE10-M4



- 10mm threaded cube shape standoff with a thread on 4 faces.
- M3 and M4 thread models available.
- Conveniently usable when installing PCB or metal plate upright.
- CUBE can also be used to make a simple housing by vertically aligning the plates.

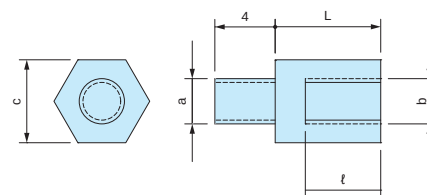
Product no. / Details

■ Zinc diecast : Glossy barrel finish

Product no.	Pack of
CUBE10-M3	2
CUBE10-M4	2
CUBE10-M3-P	20
CUBE10-M4-P	20

TPS series

TAPPING STANDOFF



■ Tapping screw head allows for easy installation onto existing enclosure boss mount.

■ DXF/DWG/PDF drawings available on our website.

■ 4 different sizes available : M2.3, M2.6, M3 and M4 size.

Product no. / Details

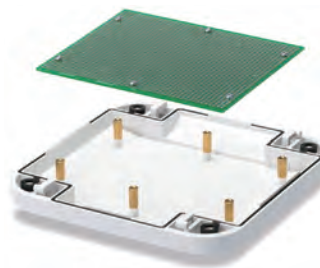
■ Material / Finish : Brass / Unfinished

Product no.	Screw size (a)	Screw size (b)	c	L	ℓ	Weight (g)	Pack of	Suitable models
TPS-M2.3-4	2.3	M2.3	5	4	3	0.7	4	WH series • PFE series LC • LCE • LCS • LCT series PF • PFF series (M2.3 boss models) TW • TWN • TWF series (M2.3 boss models) WP series (M2.3 boss models)
TPS-M2.3-5	2.3	M2.3	5	5	3	0.9	4	
TPS-M2.3-6	2.3	M2.3	5	6	4	1	4	
TPS-M2.3-7	2.3	M2.3	5	7	5	1.2	4	
TPS-M2.3-8	2.3	M2.3	5	8	6	1.3	4	
TPS-M2.3-10	2.3	M2.3	5	10	6	1.7	4	
TPS-M2.3-12	2.3	M2.3	5	12	6	2	4	
TPS-M2.6-4	2.6	M2.6	5	4	3	0.7	4	PF • PFF series (M2.6 boss models) WP series (M2.6 boss models)
TPS-M2.6-5	2.6	M2.6	5	5	3	0.8	4	
TPS-M2.6-7	2.6	M2.6	5	7	5	1.1	4	
TPS-M2.6-10	2.6	M2.6	5	10	6	1.6	4	
TPS-M2.6-12	2.6	M2.6	5	12	6	2	4	SU • OP TWS • TW • TWN • TWF series (M3 boss models)
TPS-M3-4	3	M3	5.5	4	3	0.8	4	
TPS-M3-5	3	M3	5.5	5	3	1.1	4	
TPS-M3-6	3	M3	5.5	6	4	1.2	4	
TPS-M3-7	3	M3	5.5	7	5	1.3	4	
TPS-M3-8	3	M3	5.5	8	5	1.6	4	
TPS-M3-10	3	M3	5.5	10	6	1.9	4	
TPS-M3-12	3	M3	5.5	12	6	2.3	4	BCAS • BCAP • BCPC • BCPK series (M4 boss models) BCAR • BCPR series (M4 boss models) SPCP • SPCM • WG • WGV • WGPC
TPS-M4-6	4	M4	7	6	4	2	4	
TPS-M4-10	4	M4	7	10	6	3.1	4	
TPS-M4-15	4	M4	7	15	8	4.7	4	
TPS-M4-20	4	M4	7	20	10	6.5	4	



■ Please use a suitable sized socket driver to both secure and loosen the tapping standoff.

Installation example



MT series

PCB MOUNTING SCREWS for TPS



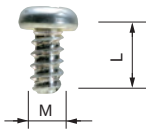
■ Pan head PCB mounting Screws for TPS tapping standoffs.

Product no. / Details

Product no.	M	L	Material	Finish	Pack of
MT2.3-4	2.3	4	Steel	Trivalent chromate	20
MT2.3-6	2.3	6	Steel	Trivalent chromate	20
MT2.6-4	2.6	4	Steel	Trivalent chromate	20
NEW MT2.6-6	2.6	6	Steel	Trivalent chromate	20
MT3-4	3	4	Steel	Trivalent chromate	20
NEW MT3-6	3	6	Steel	Trivalent chromate	20
NEW MT4-4	4	4	Steel	Trivalent chromate	20
NEW MT4-6	4	6	Steel	Trivalent chromate	20

EM series

PCB MOUNTING SCREW



- Self-tapping screws for mounting PCB on bosses or standoffs.
- EM-3-6 self-tapping screws are suitable for mounting 1.6mm or thicker PCB.

Product no. / Details

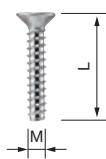
Product no.	M	L	Material	Finish	Suitable models	Pack of
EM-1.6	1.6	4	Steel	Trivalent chromate	SMW • CSS • CS SIC • SIM • WC • PS (M1.6 boss models)	50
EM-2	2	5	Steel	Trivalent chromate	PS • TW • TWN • TWF SIC • SIM • PF • WC • WP (M2 boss models)	50
EM-2.3	2.3	6	Steel	Trivalent chromate	DRC • WH • LC • LCT • LCS • LCE • PFE WSC (Top cover bosses) PF • PFF (M2.3 boss models) TW • TWN • TWF (M2.3 boss models) WP (M2.3 boss models)	50
EM-2.3-8	2.3	8	Steel	Trivalent chromate	WSC (Bottom base bosses)	50
EM-2.6	2.6	6	Steel	Trivalent chromate	PF • PFF • WP (M2.6 boss models)	50
EM-3	3	5	Steel	Trivalent chromate	SU • OP	50
EM-3-6	3	6	Steel	Trivalent chromate	TWS • TW • TWN • TWF (M3 boss models)	50

MR series

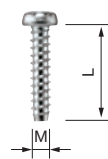
TORX SCREW



Flat head



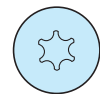
Pan head



With pin



★ Without pin



★ : MR1.6-6S, MR2.6-10□, MR3-5Z□ and MR3-14□ are without pin.

- Self-tapping torx screws for securing of the enclosure.

Product no. / Details

★ Mark = Without pin

Product no.	M	L	Head no.	Head style	Material	Finish	Suitable models	Pack of
MR1.6-6S★	1.6	6	T3	Pan	Steel	Nickel plated	CSS • CS	20
MR2.5-8PS	2.5	8	T8	Pan	Steel	Nickel plated	PF • PFE • PFF (M2.5 size)	20
MR2.6-10S★	2.6	10	T8	Flat	Steel	Nickel plated	TW • TWN (M2.6 size)	20
MR2.6-10B★	2.6	10	T8	Flat	Steel	Black trivalent chromate	TWF (M2.6 size)	20
MR2.6-12PS	2.6	12	T8	Pan	Steel	Nickel plated	MX • MXA • MXB • MXF (M2.6 size)	20
MR2.6-14PS	2.6	14	T8	Pan	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6	20
MR2.6-14S	2.6	14	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115H-F2 / F3 / M2 / 9V LCT • LCS • LC135-F4 / M2 / M3 / 9V LCT • LCS • LC135H-F4 / M2 / M3 / 9V LCT • LCS • LC145-F6 / M2 / M4 LCT • LCS • LC145H-F6 / M2 / M4 LCT • LCS • LC165-M4 LCT • LCS • LC165H-M4	20
MR2.6-18S	2.6	18	T8	Flat	Steel	Nickel plated	LCT • LCS • LC115-N / F2 / F3 LCT • LCS • LC145S-F6 / 145S-N LCE115-N TW • TWN7-2-11 / 7-4-11 / 7-5-11 TWF7-2-11 / 7-4-11 / 7-5-11 / 8-2-8 / 8-4-8	20
MR-1S	3	5	T10	Flat	Steel	Nickel plated	LCT • LCS • LC115H-N / F2 / F3 / M2 / 9V LCT • LCS • LC135-N / F4 / M2 / M3 / 9V LCT • LCS • LC135H-N / F4 / M2 / M3 / 9V LCT • LCS • LC145-N / F6 / M2 / M4 LCT • LCS • LC145H-N / F6 / M2 / M4 LCT • LCS • LC165-N / M4 LCT • LCS • LC165H-N / M4 LCE115H-N • LCE135-N • LCE145H-N • LCE165H-N	20
MR-1B	3	5	T10	Flat	Steel	Black trivalent chromate	UC	20
MR3-5ZS★	3	5	T10	Slotted raised countersunk	Steel	Nickel plated	FC • HY • HYR • HYRH (M3 size)	20
MR3-5ZB★	3	5	T10	Flat	Steel	Black trivalent chromate	CF	20
MR3-8PS	3	8	T10	Pan	Steel	Nickel plated	PF • PFE • PFF (M3 size)	20
MR3-14S★	3	14	T10	Flat	Steel	Nickel plated	TW • TWN (M3 size)	20
MR3-14B★	3	14	T10	Flat	Steel	Black trivalent chromate	TWF (M3 size) MX • MXA • MXB • MXF (M3 size)	20

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COMPANY PROFILE

COMPANY NAME TAKACHI ELECTRONICS ENCLOSURE CO., LTD.
ADDRESS 3-21-16 Higashi-ryoke, Kawaguchi, Saitama, JAPAN, 332-0003
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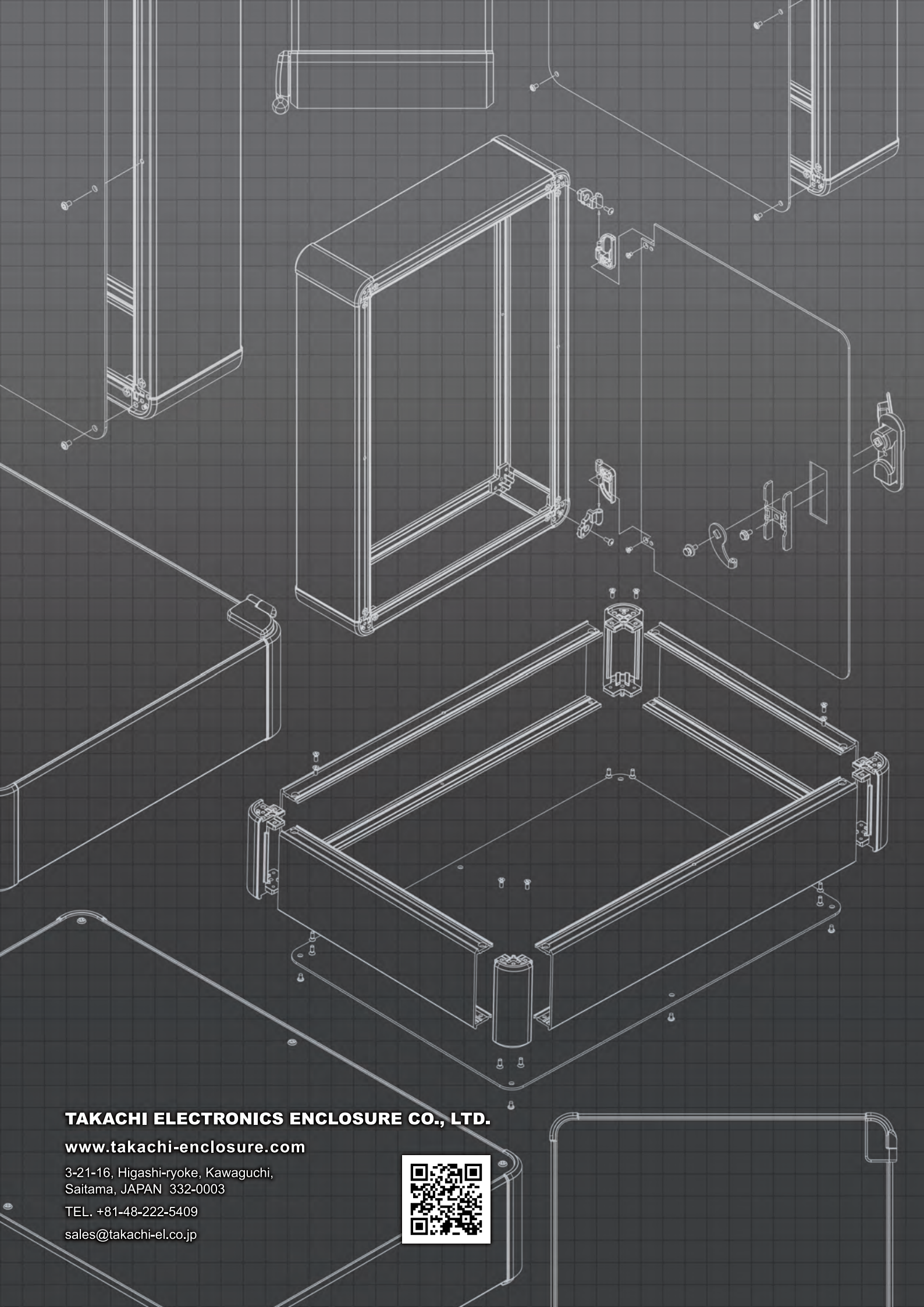
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3-21-16, Higashi-ryoke, Kawaguchi,
Saitama, JAPAN 332-0003

TEL. +81-48-222-5409

sales@takachi-el.co.jp

