

# MULTI-FUNCTION EXTRUDED ALUMINIUM CASE

## EXP · EXPF · EXPE · EXEF · EXW · EXWF series

The following series, by utilizing similar extrusion frames, are available in 6 different types, such as having IP65, or EMC shielded functions, among others.  
67 different sizes are available for each version.

### CORNER GUARD

EXP series Page 135 ~ 136



### FLANGED

EXPF series Page 141 ~ 142



### IP65 CORNER GUARD

EXW series Page 139 ~ 140



### IP65 FLANGED

EXWF series Page 145 ~ 146



### EMC CORNER GUARD

EXPE series Page 137 ~ 138



### EMC FLANGED

EXEF series Page 143 ~ 144



**Custom length available in 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 154

### NETWORK / COMMUNICATION BOX

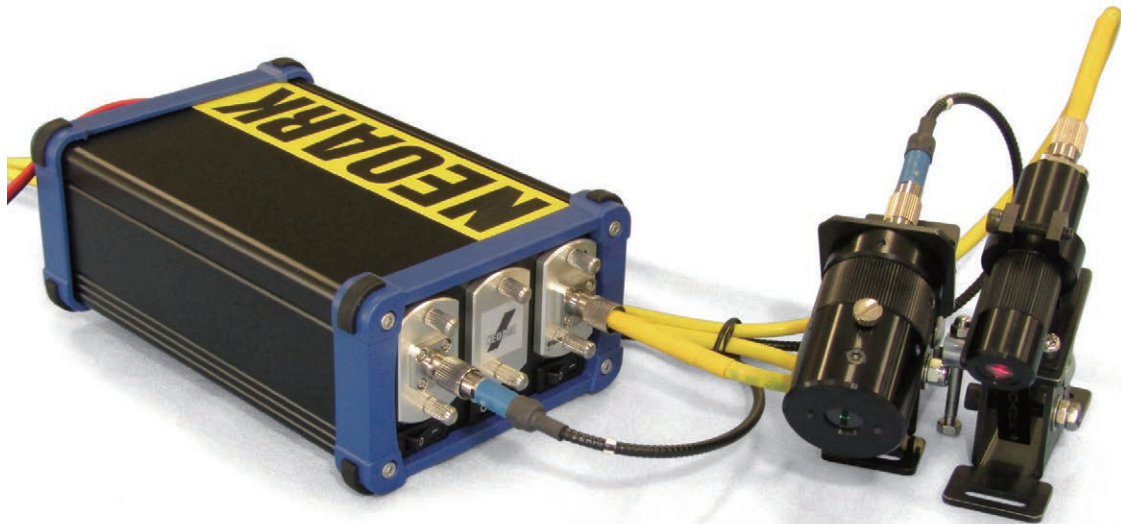


### CONTROLLER





**FIBER LASER PROJECTOR** Product by NEOARK (Japan)



**IMPULSE GENERATOR** Product by Digital Signal Technology (Japan)



**PERISTALTIC DC PUMP**

Product by Technic (USA)



**PHOTO-FLASH SEQUENCER**

Product by ScanBox (France)



※Photo is IP65 waterproof EXW mode.  
See page 139 ~ 140 for EXW series.

**DESKTOP LOAD CELL AMPLIFIER** Product by IMADA (Japan)



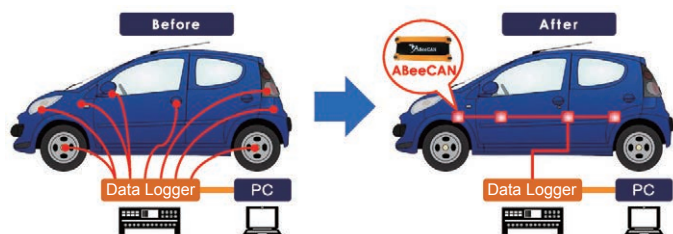
**WIDE RANGE SPEED MEASUREMENT SYSTEM** Product by ACT Electronics (Japan)



**A Bee CAN - ANALOG CAN CONVERTER** Product by PERITEC (Japan)



※Above photo is custom length EXP series.



**APPLICATION EXAMPLE**  
**Testing system for vehicle air conditioning.**

Converter for analog signal data (temperature, voltage and humidity) can be convert to CAN data and transmitted to CAN bus. Wiring quantity and cost can be saved by converting to CAN format for easy data collection through CAN data logger.

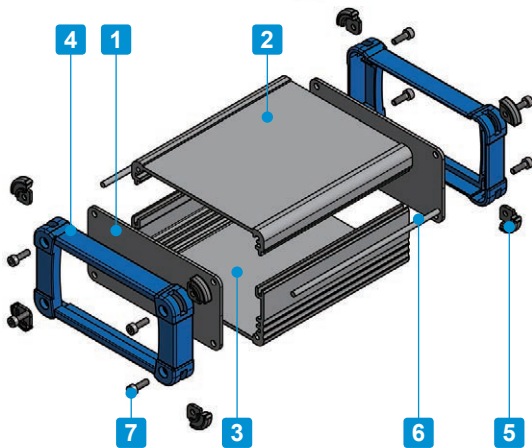


# EXPE SERIES

# ALUMINIUM EMC SHIELD CASE with CORNER GUARD



EMC  
Shielding  
Effects



- Corner guards are designed to be both aesthetically pleasing, and impact resistant.
- Available in 67 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  
 EXPE 7-□, 9-□ models : M2.5-8 x 8 pcs  
 EXPE12-□, 15-□ models : M3-10 x 8 pcs  
 EXPE20-□ models : M4-12 x 8 pcs  
 EXPE24-□ models : M5-12 x 8 pcs  
 ※Hexagonal wrench included.

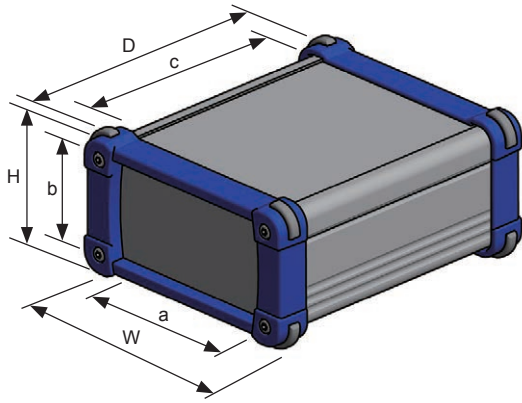
### Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1100P	Silver / Painted (outside) • Unfinished (inside)
2	Top cover	1	Extruded aluminium A6063S-T5	Silver / Painted (outside) • Unfinished (inside)
3	Bottom cover	1	Extruded aluminium A6063S-T5	Silver / Painted (outside) • Unfinished (inside)
4	Exterior frame	2	PC+ABS UL94V-0	Black • Gray / Unpainted Indigo • Navy • Yellow • Orange • Red / Painted
5	Corner guard	8	Silicone	Black • Dark gray
6	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
7	Screw	8	Stainless steel	Unfinished

■ See page 149 ~ 152 for Top / Bottom cover dimensions.

### 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				



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

**Product no. / Dimensions**

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

Product no.	Dimensions (External)			Dimensions (Internal)		
	W	H	D	a	b	c
EXPE 7- 3- 6□□	69	34	60	47	19.6	46
EXPE 7- 3- 9□□	69	34	87	47	19.6	73
EXPE 7- 3-11□□	69	34	110	47	19.6	96
EXPE 7- 4- 6□□	69	44	60	47	29.6	46
EXPE 7- 4- 9□□	69	44	87	47	29.6	73
EXPE 7- 4-11□□	69	44	110	47	29.6	96
EXPE 7- 6- 6□□	69	59	60	47	44.6	46
EXPE 7- 6- 9□□	69	59	87	47	44.6	73
EXPE 7- 6-11□□	69	59	110	47	44.6	96
EXPE 9- 4- 7□□	89	39	70	67	24.6	56
EXPE 9- 4-10□□	89	39	100	67	24.6	86
EXPE 9- 4-13□□	89	39	130	67	24.6	116
EXPE 9- 5- 7□□	89	49	70	67	34.6	56
EXPE 9- 5-10□□	89	49	100	67	34.6	86
EXPE 9- 5-13□□	89	49	130	67	34.6	116
EXPE 9- 6- 7□□	89	64	70	67	49.6	56
EXPE 9- 6-10□□	89	64	100	67	49.6	86
EXPE 9- 6-13□□	89	64	130	67	49.6	116
EXPE12- 4- 9□□	116	41	90	89	24	74
EXPE12- 4-13□□	116	41	130	89	24	114
EXPE12- 4-18□□	116	41	176	89	24	160
EXPE12- 6- 9□□	116	56	90	89	39	74
EXPE12- 6-13□□	116	56	130	89	39	114
EXPE12- 6-18□□	116	56	176	89	39	160
EXPE12- 7- 9□□	116	71	90	89	54	74
EXPE12- 7-13□□	116	71	130	89	54	114
EXPE12- 7-18□□	116	71	176	89	54	160
EXPE15- 5-11□□	151	46	110	107.4	29	93
EXPE15- 5-15□□	151	46	150	107.4	29	133
EXPE15- 5-20□□	151	46	200	107.4	29	183
EXPE15- 6-11□□	151	61	110	107.4	44	93
EXPE15- 6-15□□	151	61	150	107.4	44	133
EXPE15- 6-20□□	151	61	200	107.4	44	183
EXPE15- 8-11□□	151	81	110	107.4	64	93
EXPE15- 8-15□□	151	81	150	107.4	64	133
EXPE15- 8-20□□	151	81	200	107.4	64	183
EXPE15-10-11□□	151	101	110	107.4	84	93
EXPE15-10-15□□	151	101	150	107.4	84	133
EXPE15-10-20□□	151	101	200	107.4	84	183

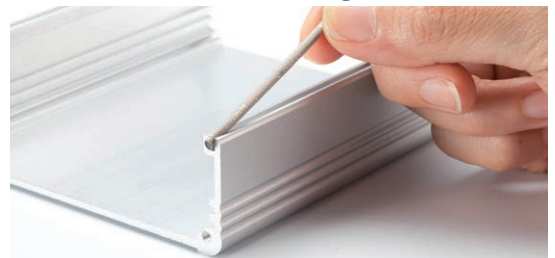
Product no.	Dimensions (External)			Dimensions (Internal)		
	W	H	D	a	b	c
<b>NEW</b> EXPE20- 6-14□□	199	56	140	132	35	120
<b>NEW</b> EXPE20- 6-19□□	199	56	192	132	35	172
<b>NEW</b> EXPE20- 6-25□□	199	56	245	132	35	225
<b>NEW</b> EXPE20- 6-30□□	199	56	300	132	35	280
<b>NEW</b> EXPE20- 7-14□□	199	74	140	132	53	120
<b>NEW</b> EXPE20- 7-19□□	199	74	192	132	53	172
<b>NEW</b> EXPE20- 7-25□□	199	74	245	132	53	225
<b>NEW</b> EXPE20- 7-30□□	199	74	300	132	53	280
<b>NEW</b> EXPE20- 9-14□□	199	94	140	132	73	120
<b>NEW</b> EXPE20- 9-19□□	199	94	192	132	73	172
<b>NEW</b> EXPE20- 9-25□□	199	94	245	132	73	225
<b>NEW</b> EXPE20- 9-30□□	199	94	300	132	73	280
<b>NEW</b> EXPE20-12-14□□	199	119	140	132	98	120
<b>NEW</b> EXPE20-12-19□□	199	119	192	132	98	172
<b>NEW</b> EXPE20-12-25□□	199	119	245	132	98	225
<b>NEW</b> EXPE20-12-30□□	199	119	300	132	98	280
<b>NEW</b> EXPE24- 6-17□□	244	64	170	177	43	147
<b>NEW</b> EXPE24- 6-23□□	244	64	230	177	43	207
<b>NEW</b> EXPE24- 6-29□□	244	64	290	177	43	267
<b>NEW</b> EXPE24- 6-35□□	244	64	350	177	43	327
<b>NEW</b> EXPE24- 9-17□□	244	89	170	177	68	147
<b>NEW</b> EXPE24- 9-23□□	244	89	230	177	68	207
<b>NEW</b> EXPE24- 9-29□□	244	89	290	177	68	267
<b>NEW</b> EXPE24- 9-35□□	244	89	350	177	68	327
<b>NEW</b> EXPE24-11-17□□	244	114	170	177	93	147
<b>NEW</b> EXPE24-11-23□□	244	114	230	177	93	207
<b>NEW</b> EXPE24-11-29□□	244	114	290	177	93	267
<b>NEW</b> EXPE24-11-35□□	244	114	350	177	93	327



Following models are suitable for placement of a Mini-ITX board.

- EXPE20-7-19□□
- EXPE20-9-19□□
- EXPE20-12-19□□

**How to install a shield gasket**



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

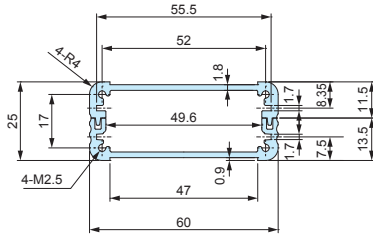


■ Ensure that a small portion of the fabric-over-foam gasket protrudes out in order to maintain a connection with the end panel.

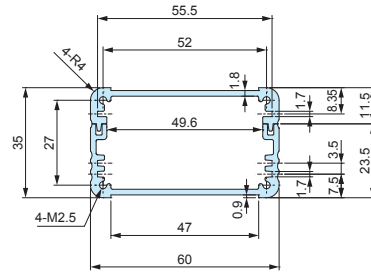
EXP • EXPE • EXW • EXPF • EXEF • EXWF • EX top / bottom covers

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

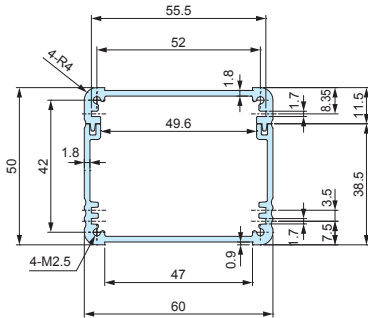
EXP • EXPE • EXW • EXPF • EXEF • EXWF7-4-□  
EX6-3-□



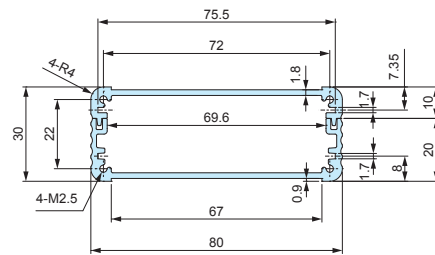
EXP • EXPE • EXW • EXPF • EXEF • EXWF7-4-□  
EX6-4-□



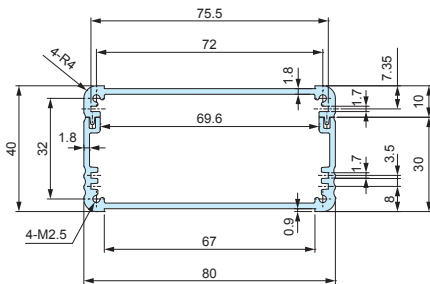
EXP • EXPE • EXW • EXPF • EXEF • EXWF7-6-□  
EX6-5-□



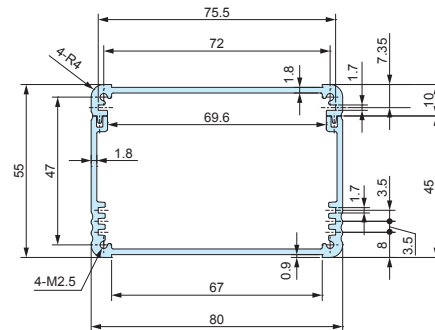
EXP • EXPE • EXW • EXPF • EXEF • EXWF9-4-□  
EX8-3-□



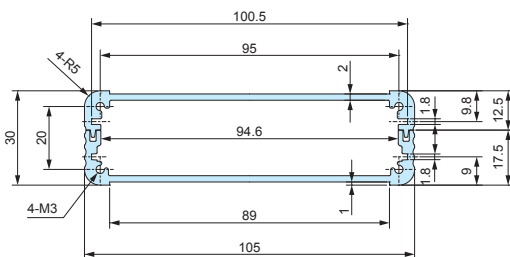
EXP • EXPE • EXW • EXPF • EXEF • EXWF9-5-□  
EX8-4-□



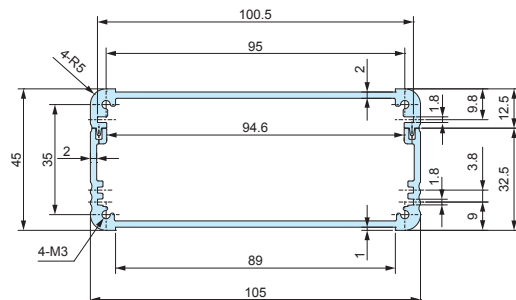
EXP • EXPE • EXW • EXPF • EXEF • EXWF9-6-□  
EX8-6-□



EXP • EXPE • EXW12-4-□  
EXPF • EXEF • EXWF11-4-□  
EX11-3-□



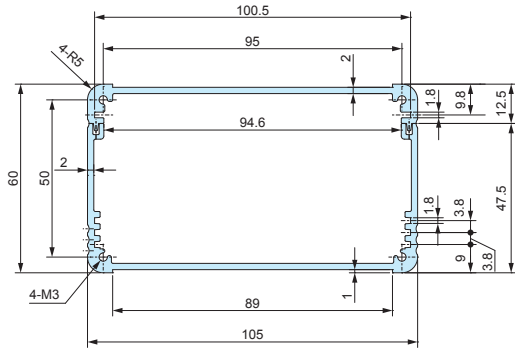
EXP • EXPE • EXW12-6-□  
EXPF • EXEF • EXWF11-6-□  
EX11-5-□



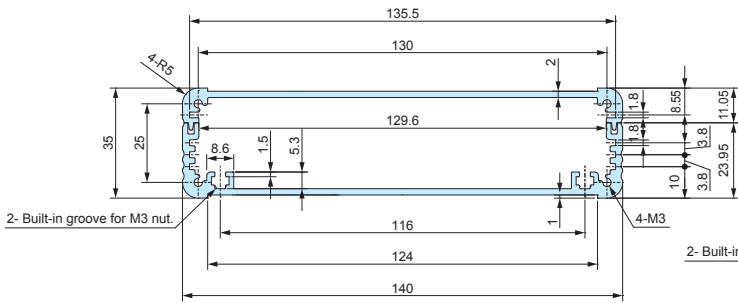
EXP • EXPE • EXW • EXPF • EXEF • EXWF • EX top / bottom covers

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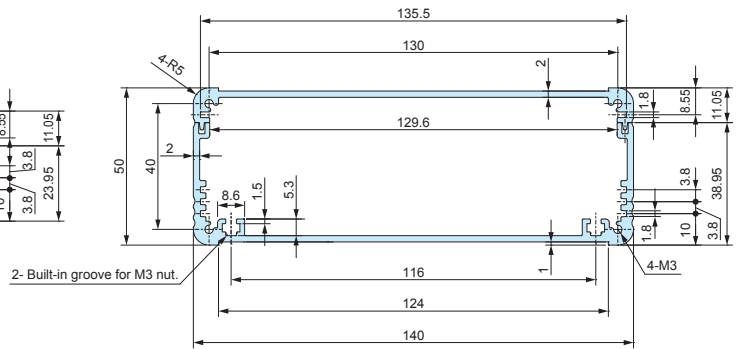
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EXPF • EXEF • EXWF11-7-□  
EX11-6-□



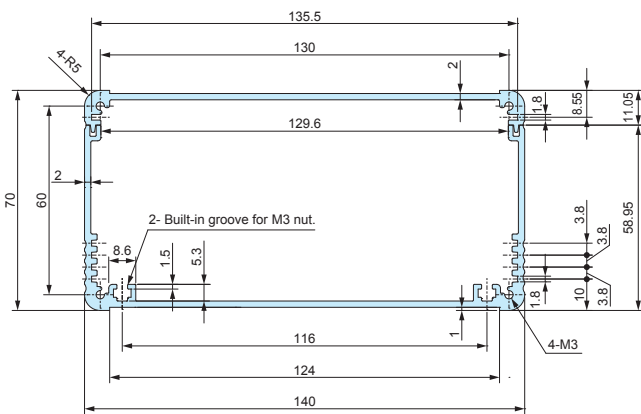
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EX14-4-□



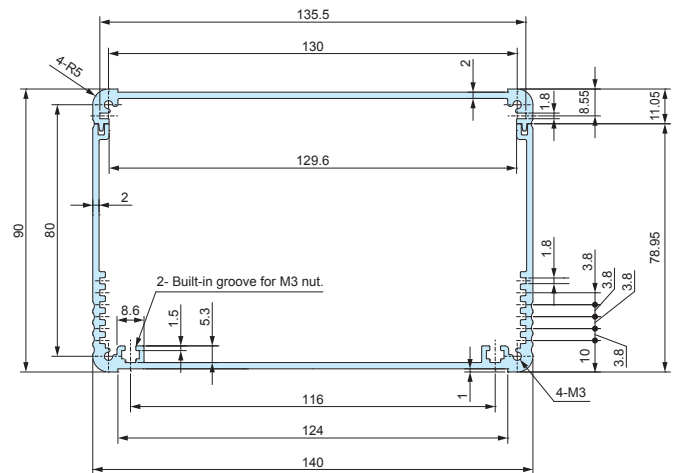
EXP • EXPE • EXW • EXPF • EXEF • EXWF15-6-□  
EX14-5-□



EXP • EXPE • EXW • EXPF • EXEF • EXWF15-8-□  
EX14-7-□



EXP • EXPE • EXW • EXPF • EXEF • EXWF15-10-□  
EX14-9-□

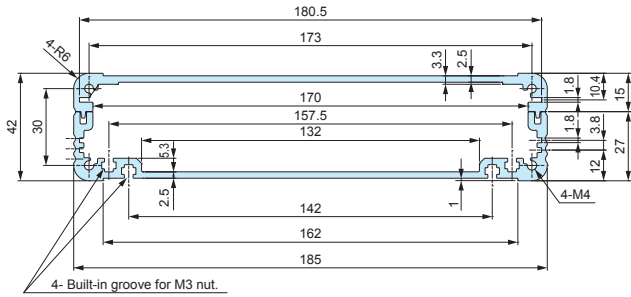




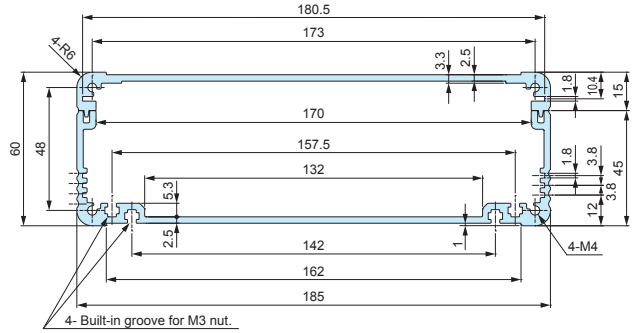
**EXP • EXPE • EXPF • EXEF • EXWF • EX top / bottom covers**

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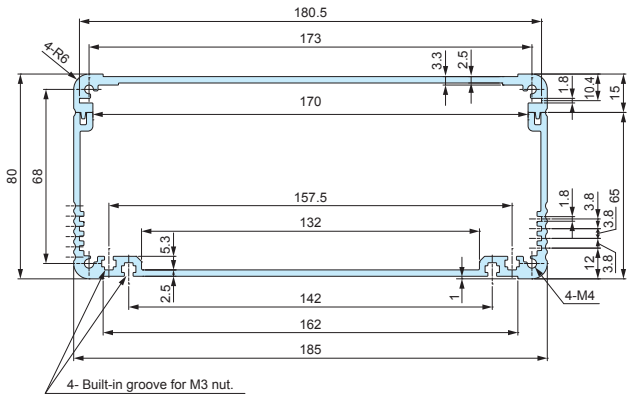
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EX19-4-□



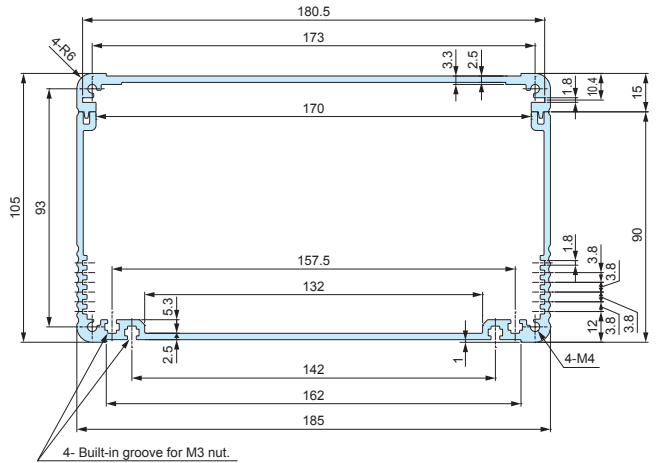
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EXPF • EXEF • EXWF20-8-□  
EX19-6-□



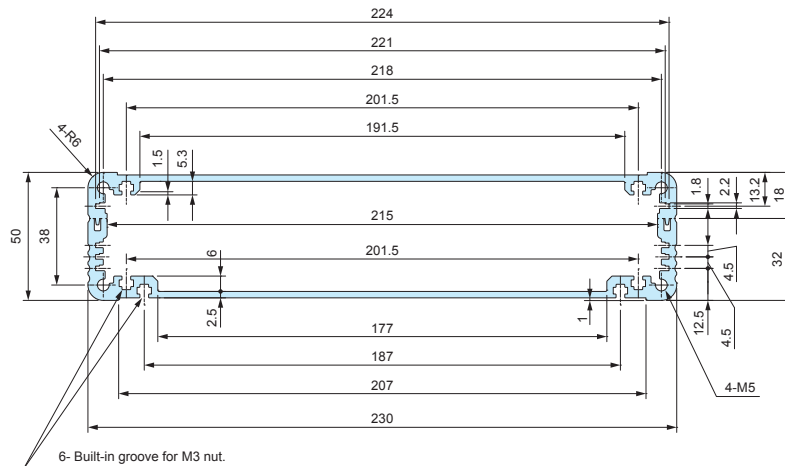
EXP • EXPE20-9-□  
EXPF • EXEF • EXWF20-10-□  
EX19-8-□



EXP • EXPE • EXPF • EXEF • EXWF20-12-□  
EX19-11-□



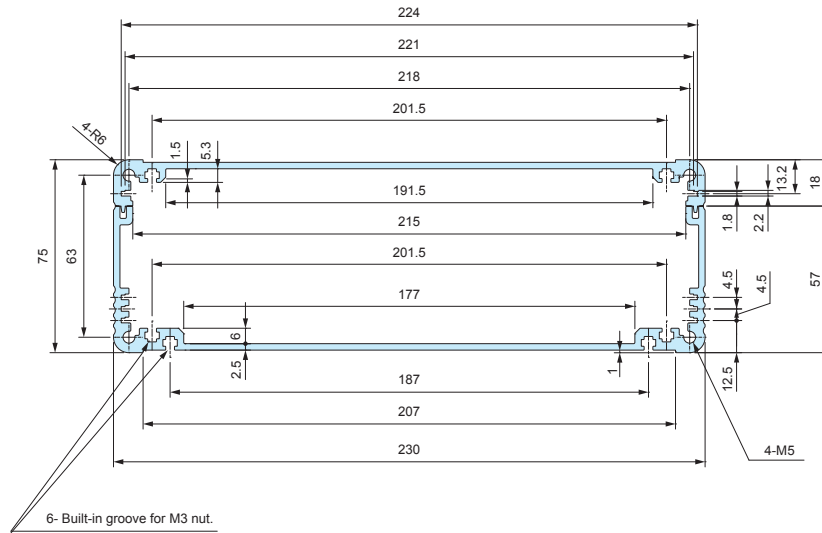
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EXPF • EXEF • EXWF24-7-□  
EX23-5-□



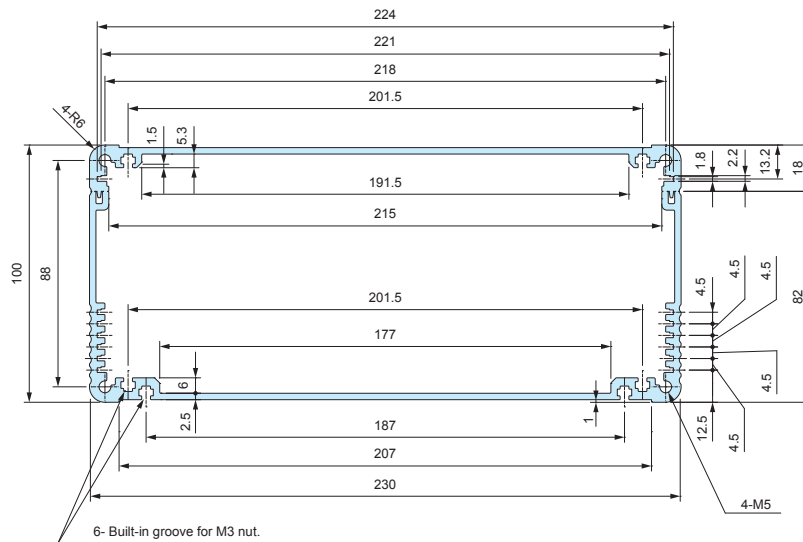
EXP • EXPE • EXPF • EXEF • EXWF • EX top / bottom covers

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DXF/DWG/PDF drawings available on our website.

EXP • EXPE • EXPF • EXEF • EXWF24-9-□  
EX23-8-□

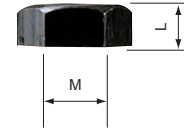
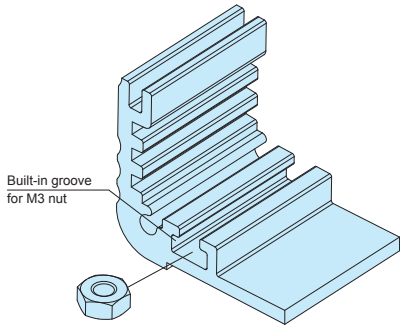


EXP • EXPE24-11-□  
EXPF • EXEF • EXWF24-12-□  
EX23-10-□



**MT-3N**

**SLIDING NUT for EXP • EXPE • EXW • EXPF • EXEF • EXWF • EX**



**Product no. / Dimensions**

Product no.	M	L	Material	Finish	Pack of
MT-3N	3	2.4	Steel	Black trivalent chromate	50

- Sliding nut can be used on all EXP • EXPE • EXW • EXPF • EXEF • EXWF • EX models with width 140mm or larger bottom covers, as well as with width 230mm top covers.

**EXEG SERIES**

**EMC SHIELDING FABRIC-OVER-FOAM GASKET for EXPE • EXEF**



- EMC shielding fabric-over-foam gasket for EXPE • EXEF series.

**Suitable Enclosure**

Product no.	Suitable enclosure
EXEG-2.5	EXPE7-□ • 9-□ • 12-□ • 15-□ / EXEF7-□ • 9-□ • 11-□ • 15-□
EXEG-3.2	EXPE20-□ • 24-□ / EXEF20-□ • 24-□



**Product no. / Dimensions**

Product no.	Φ	Material	Color	Sales unit
EXEG-2.5	2.5	Wire mesh gasket • TPE	Metallic gray	500mm x 1 pc
<b>NEW</b> EXEG-3.2	3.2	Wire mesh gasket • TPE	Metallic gray	500mm x 1 pc

Length tolerance = +/- 10%

**APPLICATION EXAMPLE EX series**

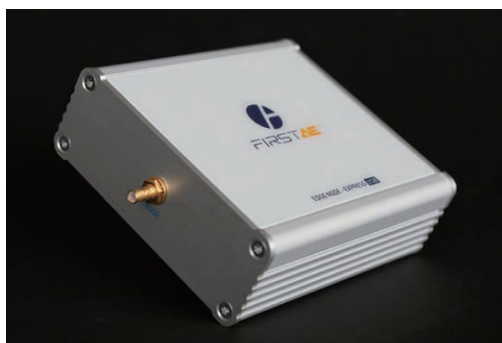
**PREMAIN POWER AMPLIFIER**

Product by AY-densi (Japan)



**USB EDGE NODE**

Product by SHINWA (Japan)





TLW SERIES

TILT LEG



APPLICATION EXAMPLE

Technical Data
Max load : 7kg

- New tilt leg with eye catching colors and rounded design.
- Non-slip design with Elastomer (TPE) pad.
- Available in 3 different color patterns.

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
-	Washer head screw	4	Steel M3-6	Black trivalent chromate
-	Nut	4	Steel M3	Black trivalent chromate

Product no.

Product no.	Color (plastic)	Color (TPE)
<b>NEW</b> TLW-46BB	Black	Black
<b>NEW</b> TLW-46NG	Navy	Gray
<b>NEW</b> TLW-46LG	Light gray	Gray

- TLW tilt leg can be used in various applications.

