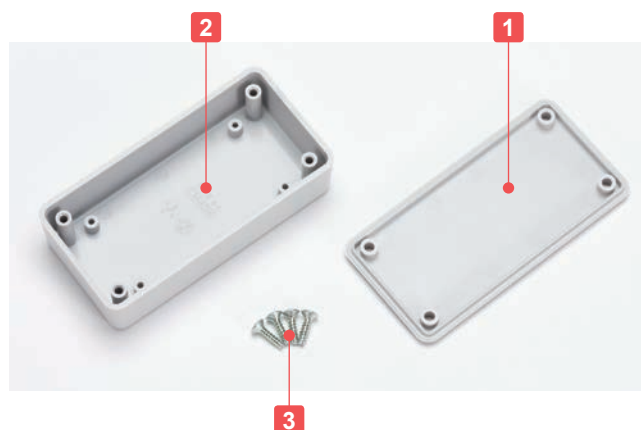




Technical Data

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



- Universal plastic enclosure with screw fastening.
- Selectable in 26 sizes in 3 colors ; Light gray, Black and Off-white.
- Suitable for measuring instruments, testing devices, wireless communication devices, medical devices, and so on.

Components

No.	Part name	Pcs	Material / Color / Finish
1	Top cover	1	TW : ABS UL94HB / Light gray • Black
			TWN : ABS UL94V-1 • UL94V-0 / Off-white
2	Bottom cover	1	TW : ABS UL94HB / Light gray • Black
			TWN : ABS UL94V-1 • UL94V-0 / Off-white
3	Self tapping screw	2 / 4	TW : Steel / Trivalent chromate • Black trivalent chromate
			TWN : Steel / Nickel plated



Neodymium magnet
NMG series
See page 130

Accessories (Optional parts)



Wall suspension bracket
WM series
See page 129



TORX Screw
MR series
See page 135



PCB mounting screw
EM series
See page 135



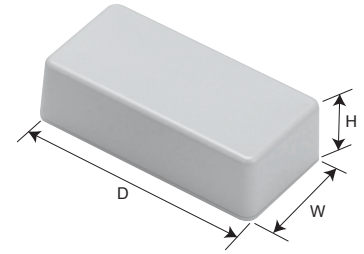
Tapping standoff
TPS series
See page 133



Snap-in battery box
LD • LDN series
See page 122

Color Type

Series	Code	Top cover	Bottom cover	Screw
TW	G	Light gray	Light gray	Trivalent chromate
	B	Black	Black	Black trivalent chromate
TWN	W	Off-white	Off-white	Nickel plated



TW series (ABS UL94HB)

Product no. / Dimensions

Product no.		Dimensions			Screw	Weight (g)
● Light gray	● Black	W	H	D		
TW 4-2- 5G	TW 4-2- 5B	35	20	50	M2.6-12 × 2 pcs	13.5
TW 4-2- 6G	TW 4-2- 6B	35	20	60	M2.6-12 × 2 pcs	15.5
TW 4-2- 8G	TW 4-2- 8B	40.3	20	80.3	M2.6-12 × 2 pcs	22
TW 5-2- 5G	TW 5-2- 5B	50	15	50	M2.6-12 × 4 pcs	18
TW 5-3- 5G	TW 5-3- 5B	50	25	50	M2.6-12 × 4 pcs	22
TW 5-2- 7G	TW 5-2- 7B	50	15	70	M2.6-12 × 4 pcs	22
TW 5-3- 7G	TW 5-3- 7B	50	27.5	70	M2.6-12 × 4 pcs	29
TW 5-4- 7G	TW 5-4- 7B	50	40	70	M2.6-12 × 4 pcs	35
TW 5-3- 9G	TW 5-3- 9B	45	25	90	M3-12 × 4 pcs	30.5
TW 5-3-10G	TW 5-3-10B	50	30	100	M3-12 × 4 pcs	45.5
TW 7-2-11G	TW 7-2-11B	70	20	105	M2.6-14 × 4 pcs	56.5
TW 7-4-11G	TW 7-4-11B	70	35	105	M2.6-14 × 4 pcs	70
TW 7-5-11G	TW 7-5-11B	70	50	105	M2.6-14 × 4 pcs	83
TW 7-3-13G	TW 7-3-13B	65	25.6	130	M3-16 × 4 pcs	76
TW 7-5-13G	TW 7-5-13B	65	50.1	130	M3-16 × 4 pcs	100
TW 8-2- 8G	TW 8-2- 8B	80	20	80	M2.6-12 × 4 pcs	49
TW 8-4- 8G	TW 8-4- 8B	80	40	80	M2.6-12 × 4 pcs	65
TW 9-4-17G	TW 9-4-17B	85.5	35.5	170	M3-16 × 4 pcs	133
TW 9-6-17G	TW 9-6-17B	85.5	60.5	170	M3-16 × 4 pcs	168
TW11-5-22G	TW11-5-22B	110	45.3	220	M3-16 × 4 pcs	223
TW11-8-22G	TW11-8-22B	110	75.3	220	M3-16 × 4 pcs	277
TW13-3-13G	TW13-3-13B	125	25	125	M3-16 × 4 pcs	135
TW13-5-13G	TW13-5-13B	125	45	125	M3-16 × 4 pcs	165.5
TW13-3-18G	TW13-3-18B	125	25	175	M3-16 × 4 pcs	184.5
TW13-5-18G	TW13-5-18B	125	45	175	M3-16 × 4 pcs	218
TW13-7-18G	TW13-7-18B	125	65	175	M3-16 × 4 pcs	254

TWN series (ABS UL94V-1 • UL94V-0)

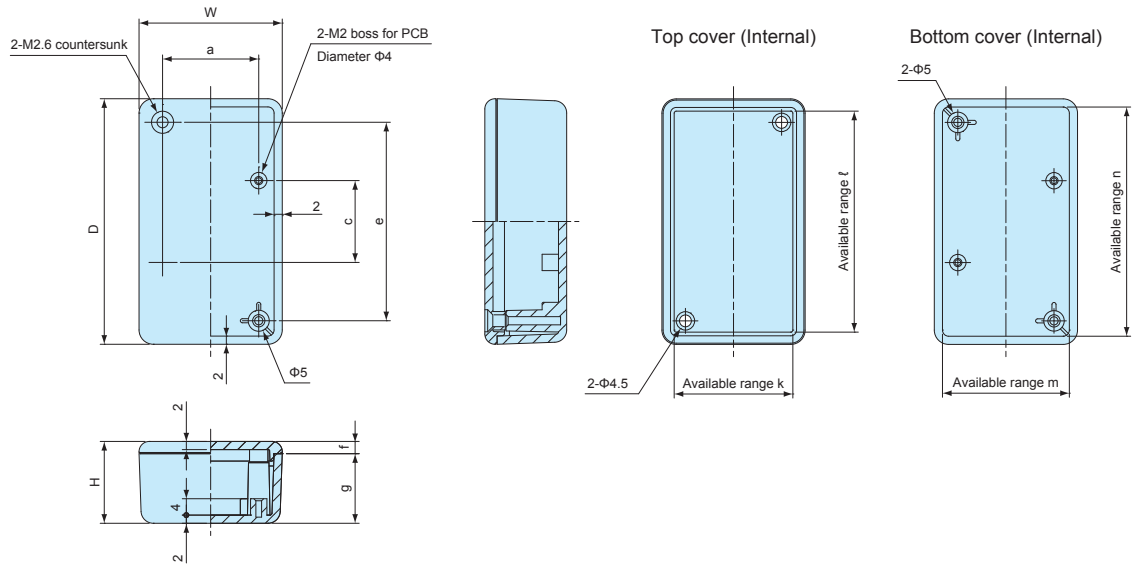
Product no. / Dimensions

Product no.	W	H	D	Screw	UL class	Weight (g)
TWN 4-2- 5W	35	20	50	M2.6-12 × 2 pcs	UL94V-1	16.5
TWN 4-2- 6W	35	20	60	M2.6-12 × 2 pcs	UL94V-1	18
TWN 4-2- 8W	40.3	20	80.3	M2.6-12 × 2 pcs	UL94V-1	26
TWN 5-2- 7W	50	15	70	M2.6-12 × 4 pcs	UL94V-1	24.5
TWN 5-3- 7W	50	27.5	70	M2.6-12 × 4 pcs	UL94V-1	33
TWN 5-4- 7W	50	40	70	M2.6-12 × 4 pcs	UL94V-1	39.5
TWN 5-3- 9W	45	25	90	M3-16 × 4 pcs	UL94V-1	35
TWN 7-2-11W	70	20	105	M2.6-14 × 4 pcs	UL94V-0	64.5
TWN 7-4-11W	70	35	105	M2.6-14 × 4 pcs	UL94V-0	80
TWN 7-5-11W	70	50	105	M2.6-14 × 4 pcs	UL94V-0	94.5
TWN 7-3-13W	65	25.6	130	M3-16 × 4 pcs	UL94V-0	85
TWN 7-5-13W	65	50.1	130	M3-16 × 4 pcs	UL94V-0	115.5
TWN 8-2- 8W	80	20	80	M2.6-12 × 4 pcs	UL94V-0	55.5
TWN 8-4- 8W	80	40	80	M2.6-12 × 4 pcs	UL94V-0	75
TWN 9-4-17W	85.5	35.5	170	M3-16 × 4 pcs	UL94V-0	151
TWN 9-6-17W	85.5	60.5	170	M3-16 × 4 pcs	UL94V-0	191
TWN11-5-22W	110	45.3	220	M3-16 × 4 pcs	UL94V-0	254
TWN11-8-22W	110	75.3	220	M3-16 × 4 pcs	UL94V-0	316
TWN13-3-13W	125	25	125	M3-16 × 4 pcs	UL94V-0	156.5
TWN13-5-13W	125	45	125	M3-16 × 4 pcs	UL94V-0	190
TWN13-3-18W	125	25	175	M3-16 × 4 pcs	UL94V-0	206.5
TWN13-5-18W	125	45	175	M3-16 × 4 pcs	UL94V-0	249
TWN13-7-18W	125	65	175	M3-16 × 4 pcs	UL94V-0	290.5

TW / TWN dimensions

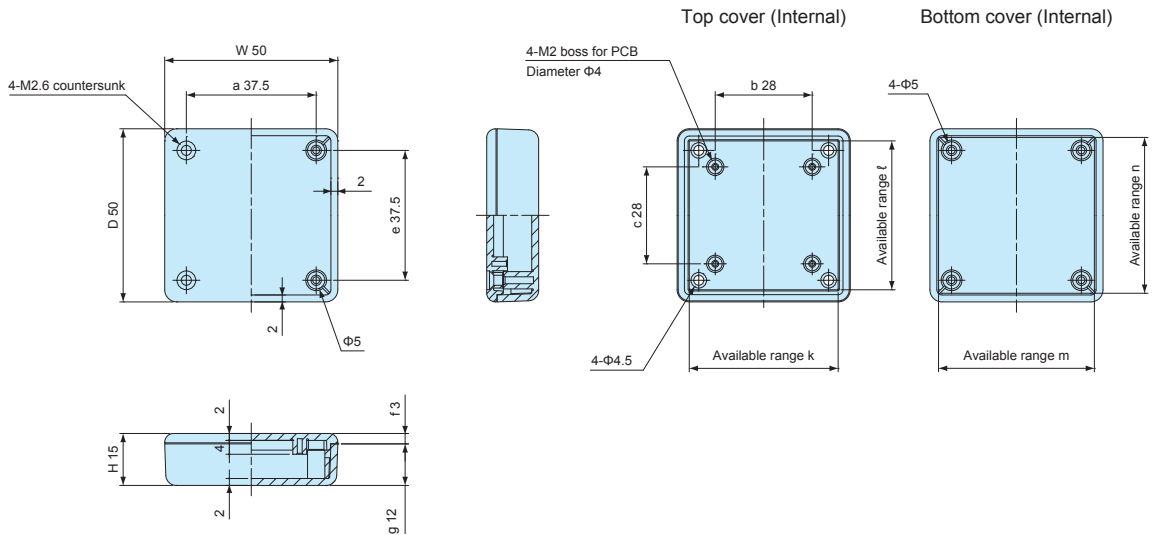
■ DXF/DWG/PDF drawings available on our website.

TW / TWN4-2-5
TW / TWN4-2-6
TW / TWN4-2-8



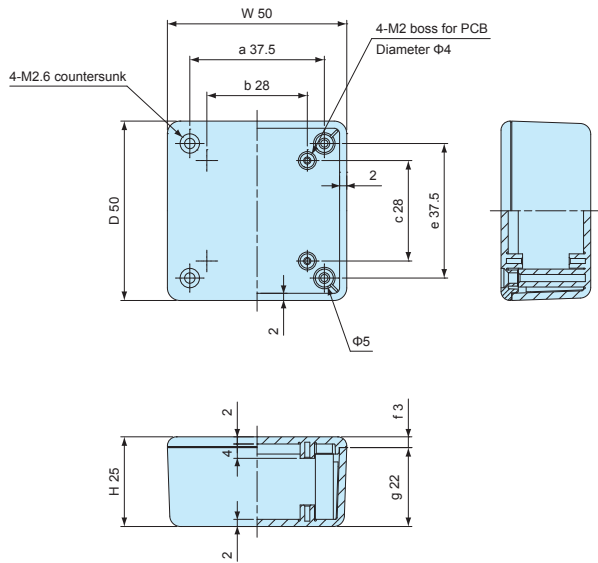
Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN4-2-5□	35	20	50	23.5	-	20	38.5	3	17	-	-	28.5	43.5	29.5	44.5
TW / TWN4-2-6□	35	20	60	23.5	-	20	48.5	3	17	-	-	28.5	53.5	29.5	54.5
TW / TWN4-2-8□	40.3	20	80.3	28.5	-	40	68.5	3	17	-	-	33.5	73.5	34.5	74.5

TW5-2-5



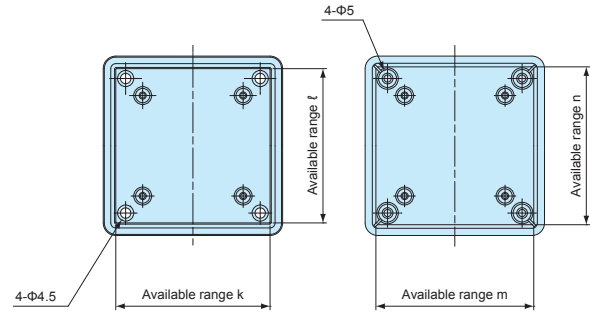
Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW5-2-5□	50	15	50	37.5	28	28	37.5	3	12	-	-	43	43	45	45

TW5-3-5



Top cover (Internal)

Bottom cover (Internal)

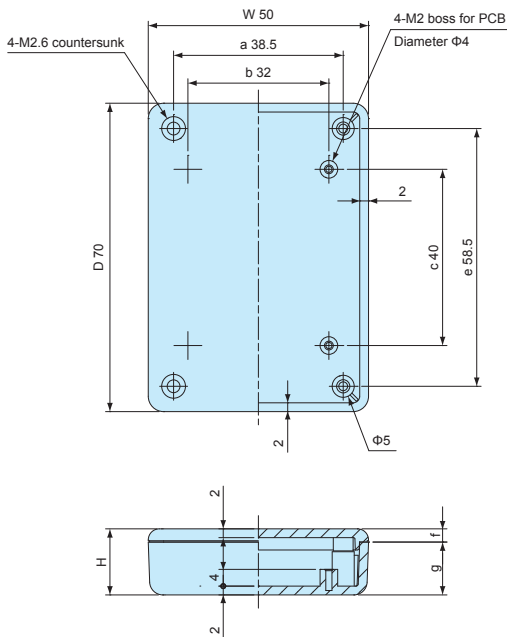


Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW5-3-5□	50	25	50	37.5	28	28	37.5	3	22	-	-	43	43	44.5	44.5

TW / TWN5-2-7

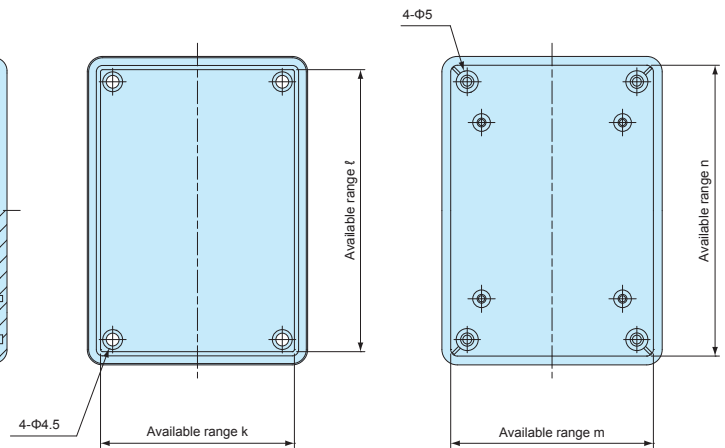
TW / TWN5-3-7

TW / TWN5-4-7



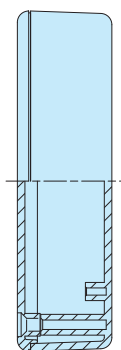
Top cover (Internal)

Bottom cover (Internal)

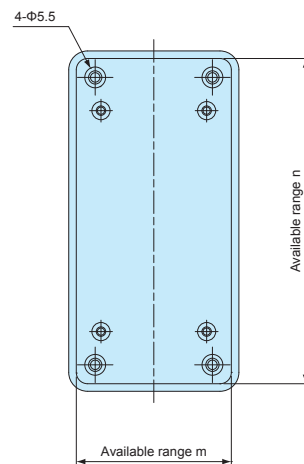
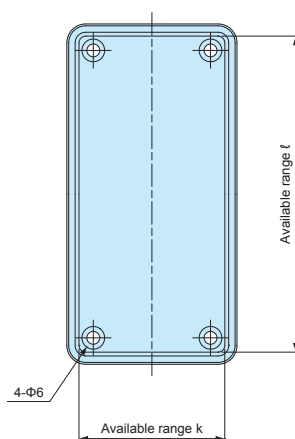


Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN5-2-7□	50	15	70	38.5	32	40	58.5	3	12	-	-	43.5	63.5	44.5	64.5
TW / TWN5-3-7□	50	27.5	70	38.5	32	40	58.5	3	24.5	-	-	43.5	63.5	44	64
TW / TWN5-4-7□	50	40	70	38.5	32	40	58.5	3	37	-	-	43.5	63.5	43	63

TW / TWN5-3-9
TW5-3-10

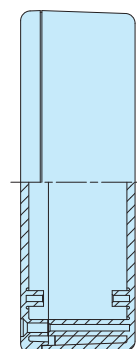


Bottom cover (Internal)

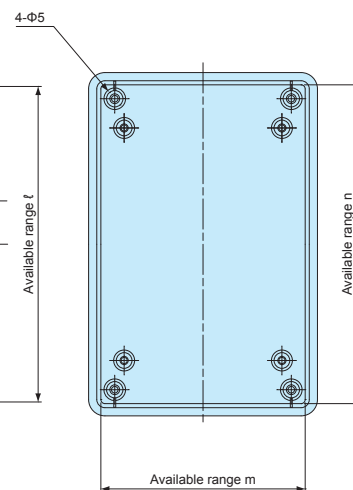
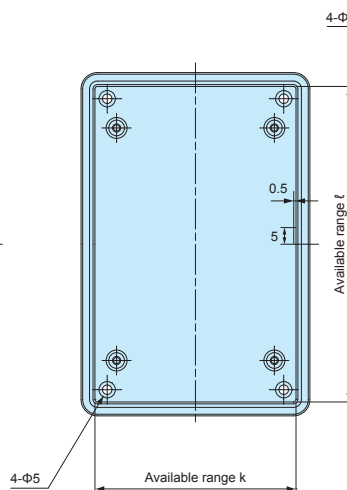


Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN5-3-9□	45	25	90	31	27.94	58.42	76	3.5	21.5	–	–	38.5	83.5	39	84
TW5-3-10□	50	30	100	36	22.86	73.66	86	3.5	26.5	–	–	43	93	44	94

TW / TWN7-2-11
TW / TWN7-4-11
TW / TWN7-5-11

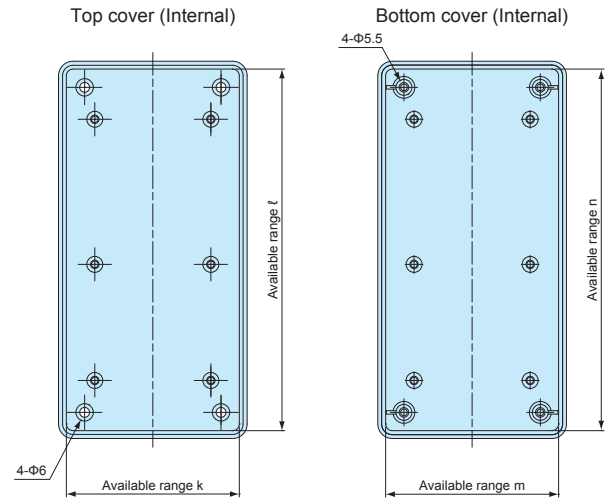
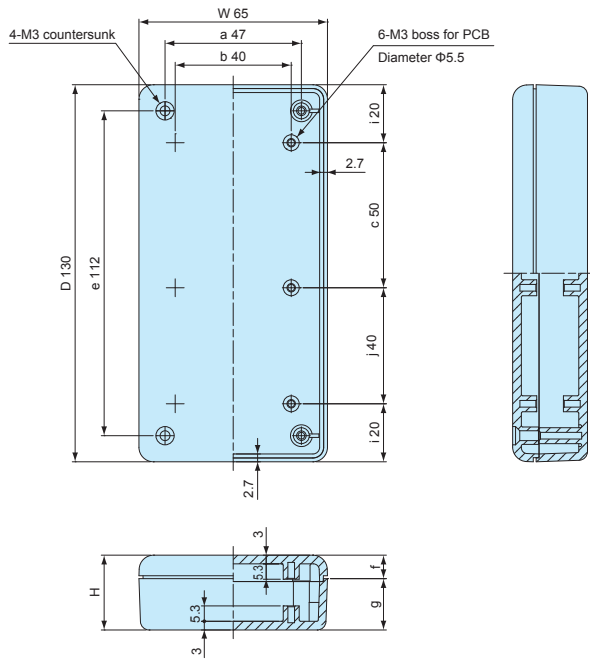


Bottom cover (Internal)



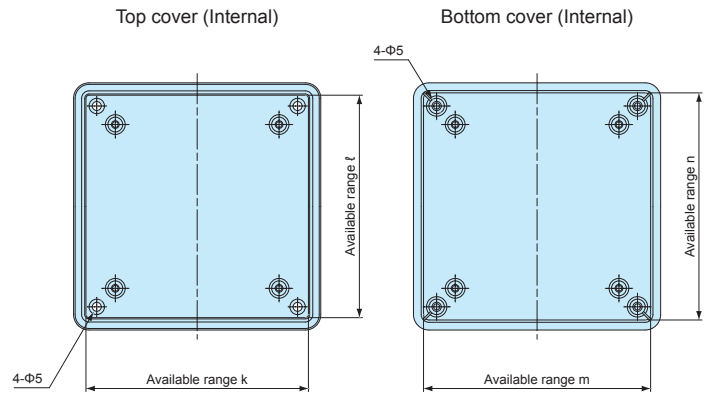
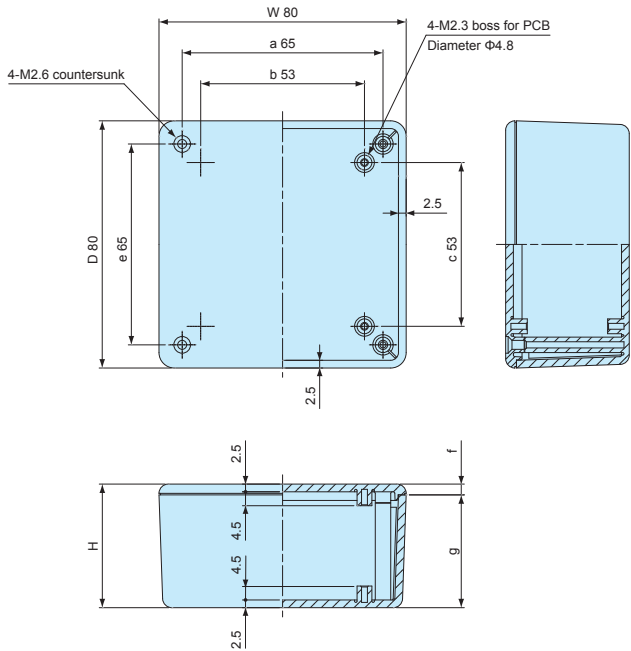
Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN7-2-11□	70	20	105	54	48.26	71.12	89	6.5	13.5	–	–	61.5	96.5	63.5	98.5
TW / TWN7-4-11□	70	35	105	54	48.26	71.12	89	6.5	28.5	–	–	61.5	96.5	62.5	97.5
TW / TWN7-5-11□	70	50	105	54	48.26	71.12	89	6.5	43.5	–	–	61.5	96.5	61.5	96.5

TW / TWN7-3-13 / TWS7-3-13
TW / TWN7-5-13 / TWS7-5-13



Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN7-3-13□	65	25.6	130	47	40	50	112	8.1	17.5	20	40	57	122	58	123
TW / TWN7-5-13□	65	50.1	130	47	40	50	112	8.1	42	20	40	57	122	56.5	121.5

TW / TWN8-2-8
TW / TWN8-4-8



Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN8-2-8□	80	20	80	65	53	53	65	3.5	16.5	—	—	72	72	73.5	73.5
TW / TWN8-4-8□	80	40	80	65	53	53	65	3.5	36.5	—	—	72	72	72	72

TW / TWN dimensions

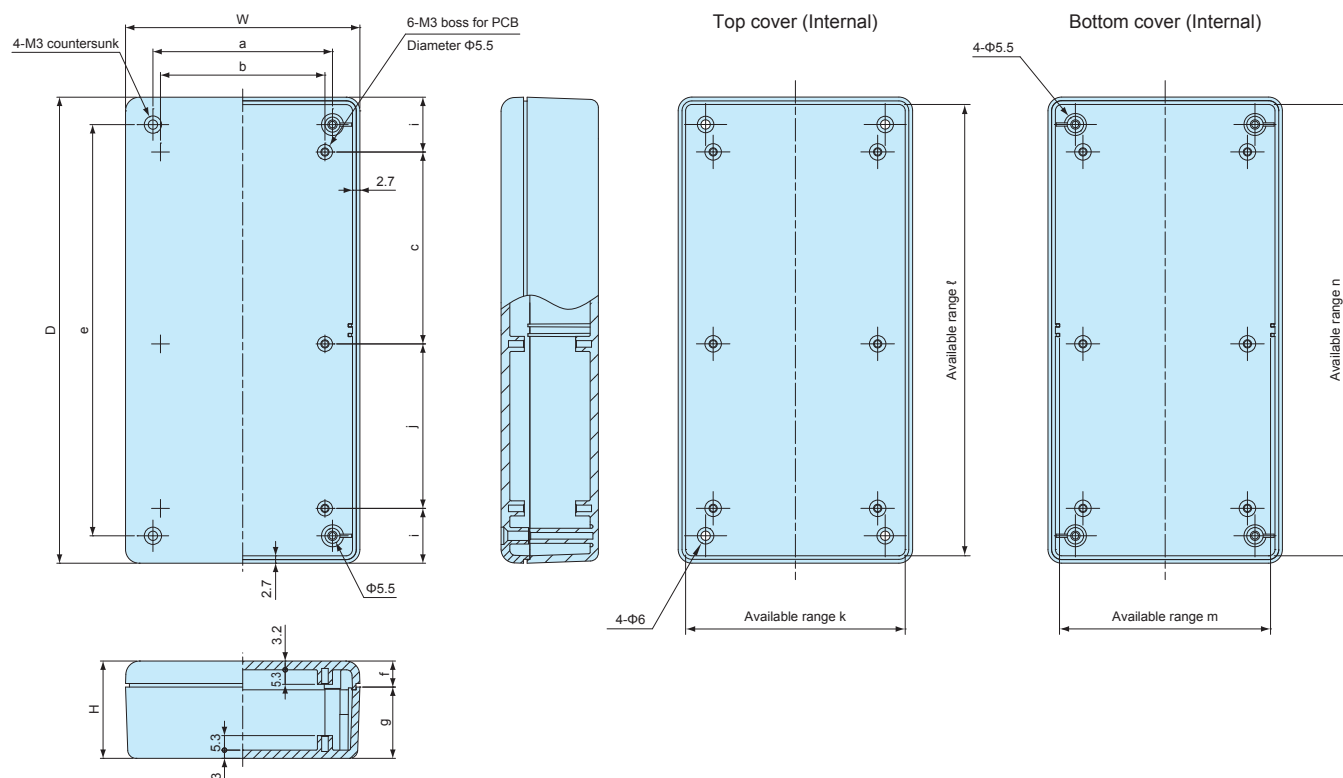
■ DXF/DWG/PDF drawings available on our website.

TW / TWN 9-4-17 / TWS 9-4-17

TW / TWN 9-6-17 / TWS 9-6-17

TW / TWN11-5-22 / TWS11-5-22

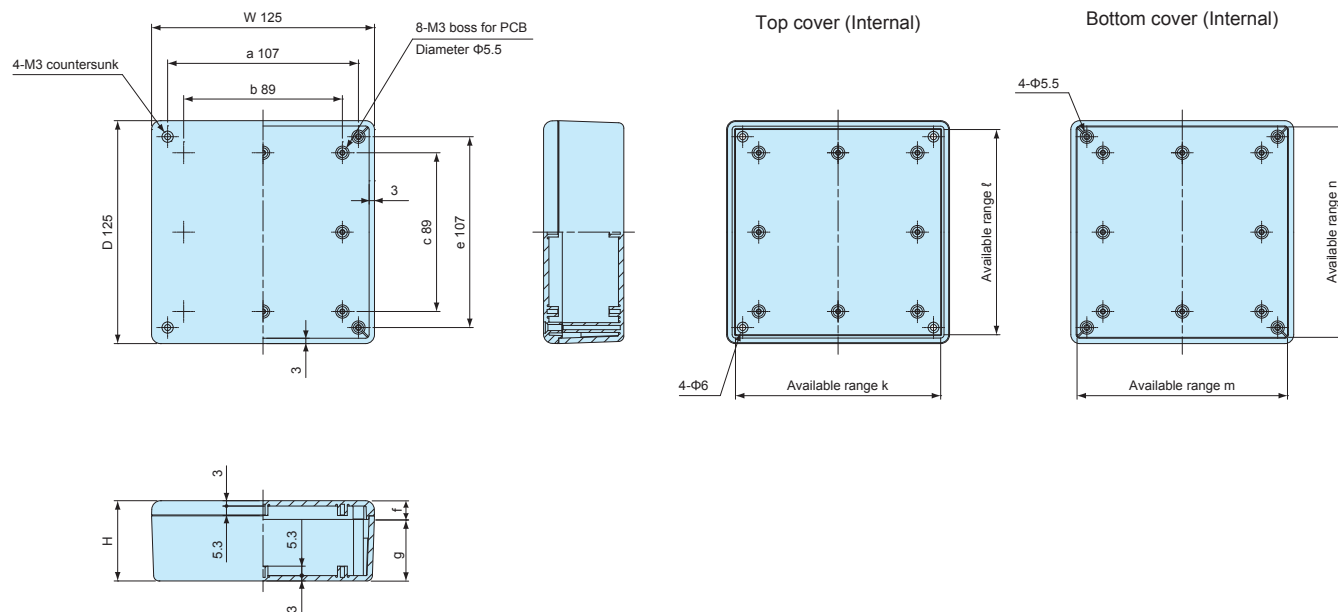
TW / TWN11-8-22 / TWS11-8-22



Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN 9-4-17□	85.5	35.5	170	65.5	60	70	150	9.5	26	20	60	77.5	162	76.5	162.5
TW / TWN 9-6-17□	85.5	60.5	170	65.5	60	70	150	9.5	51	20	60	77.5	162	76.5	161
TW / TWN11-5-22□	110	45.3	220	88	50	120	198	10.3	35	20	60	102	212	101	211.5
TW / TWN11-8-22□	110	75.3	220	88	50	120	198	10.3	65	20	60	102	212	100	210

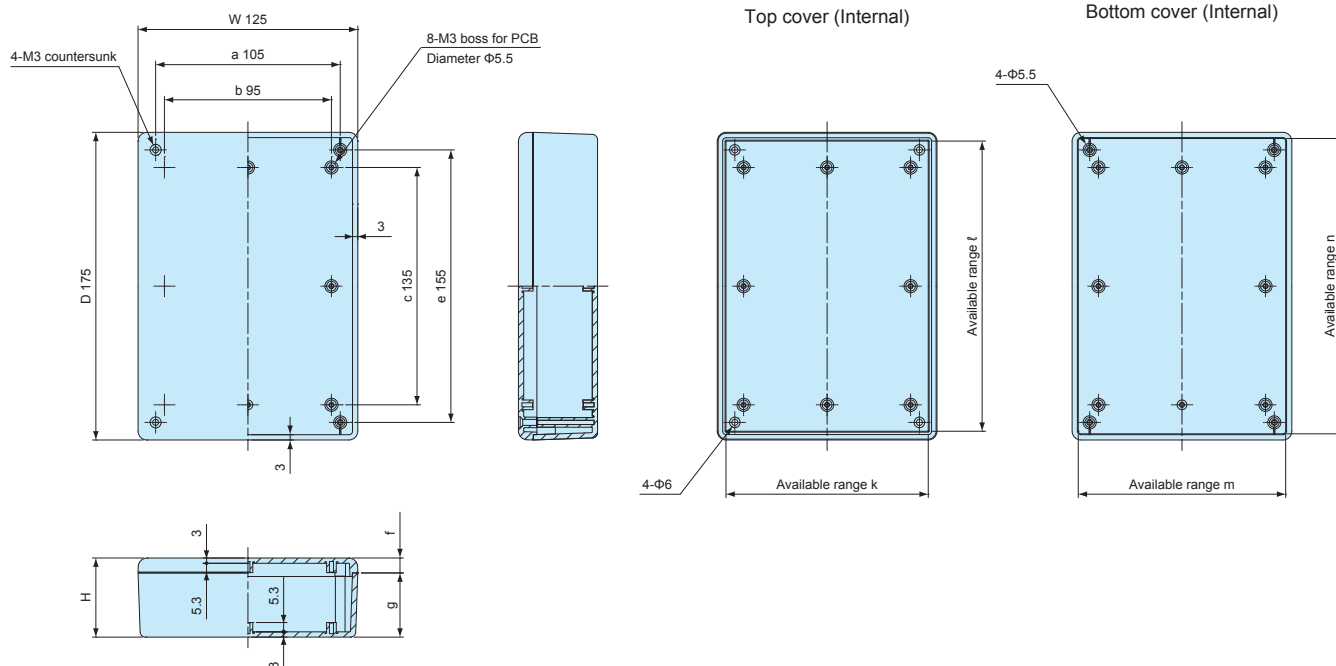
TW / TWN13-3-13 / TWS13-3-13

TW / TWN13-5-13 / TWS13-5-13



Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN13-3-13□	125	25	125	107	89	89	107	8.5	16.5	–	–	115	115	118	118
TW / TWN13-5-13□	125	45	125	107	89	89	107	8.5	36.5	–	–	115	115	116.5	116.5

TW / TWN13-3-18 / TWS13-3-18
 TW / TWN13-5-18 / TWS13-5-18
 TW / TWN13-7-18 / TWS13-7-18



Product no.	W	H	D	a	b	c	e	f	g	i	j	k	ℓ	m	n
TW / TWN13-3-18□	125	25	175	105	95	135	155	8.5	16.5	—	—	115	165	117.5	167.5
TW / TWN13-5-18□	125	45	175	105	95	135	155	8.5	36.5	—	—	115	165	116.5	166.5
TW / TWN13-7-18□	125	65	175	105	95	135	155	8.5	56.5	—	—	115	165	115	165

TWSC SERIES

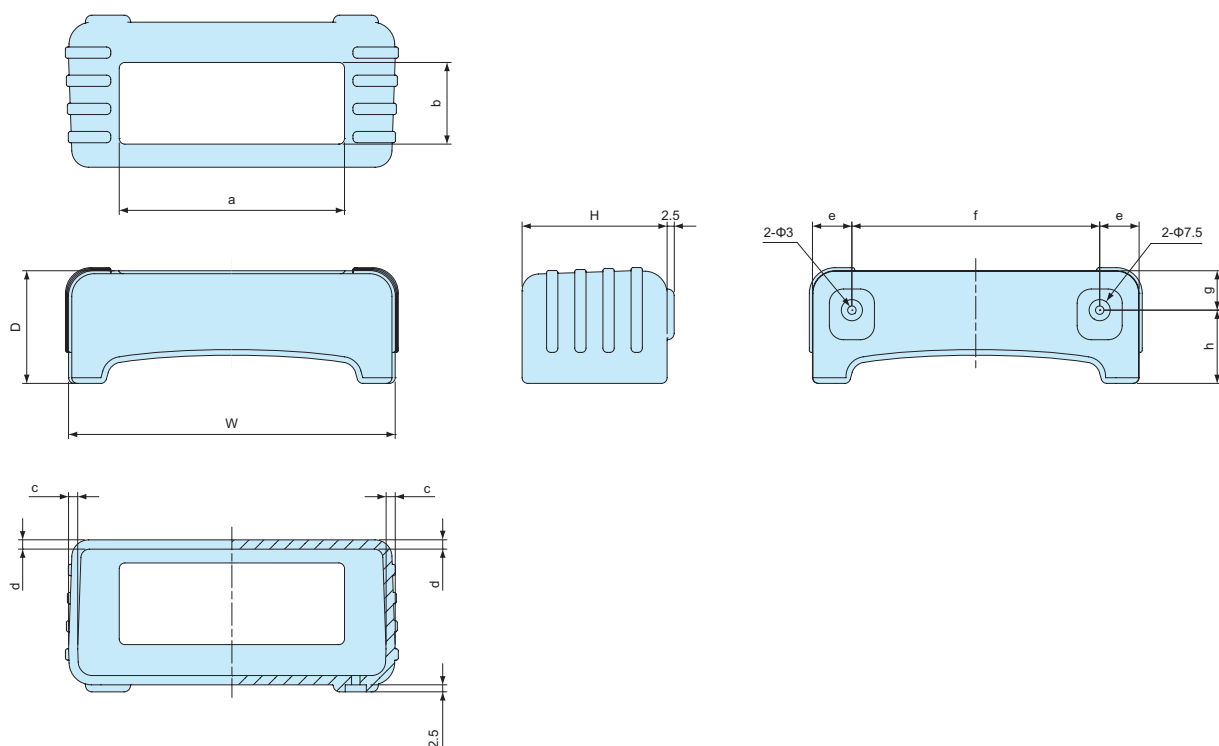
SILICONE PROTECTOR for TW•TWN

Color Type

Code	P Pink	Y Yellow	G Green	N Navy	L Light gray	B Black
Color						

- Silicone Protector for TW • TWN series. Selectable in 6 colors.
- Please select a model based on the suitable plastic case as listed below. The silicone protector is a set of 2 pcs.
- Custom color is available from 500 pairs per order. Please specify the **PANTONE®** color number or provide your sample color.

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



Components

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

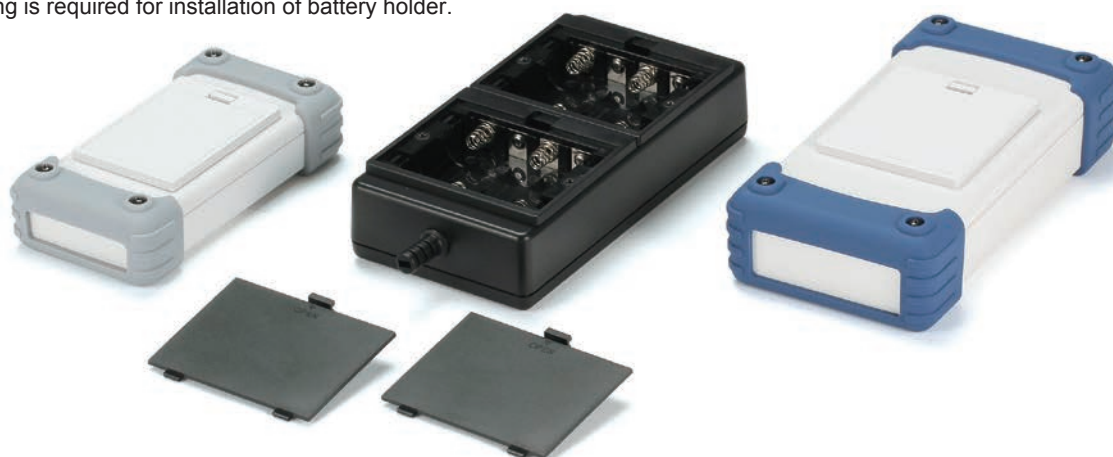
Product no. / Dimensions

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

Product no.	W	H	D	a	b	c	d	e	f	g	h	Suitable case	Weight (g)
TWSC 7-3□	71	32	27	52	13.5	3.2	3.3	12	47	12	15	TW / TWN 7-3-13	41
TWSC 7-5□	71	56	27	52	37.5	3.15	3.1	12	47	12	15	TW / TWN 7-5-13	47.5
TWSC 9-4□	91.5	41.5	33	67	22	3.1	3.15	13	65.5	13	20	TW / TWN 9-4-17	60
TWSC 9-6□	91.5	66.5	33	67	46.5	3.2	3.3	13	65.5	13	20	TW / TWN 9-6-17	75
TWSC11-5□	116	51.5	40	80	29	3.25	3.3	14	88	14	26	TW / TWN11-5-22	102.5
TWSC11-8□	116	81.5	40	80	58	3.2	3.3	14	88	14	26	TW / TWN11-8-22	122
TWSC13-3□	131	31	38	101	13	3.15	3.2	13	105	13	25	TW / TWN13-3-13 TW / TWN13-3-18	87
TWSC13-5□	131	51	38	101	29.5	3.3	3.3	13	105	13	25	TW / TWN13-5-13 TW / TWN13-5-18	104
TWSC13-7□	131	71	38	101	48.5	3.3	3.3	13	105	13	25	TW / TWN13-7-18	117

LD•LDN SERIES**SNAP-IN BATTERY BOX**

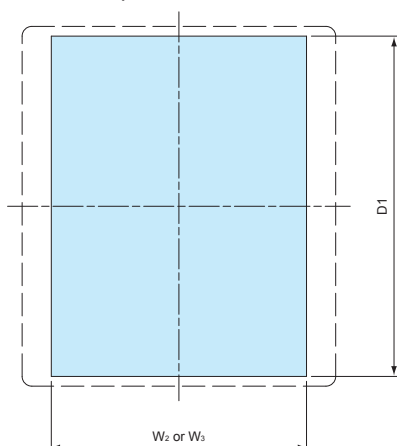
Snap-in battery holders are available for installation onto TWS • TW • TWN series.
Hole milling is required for installation of battery holder.



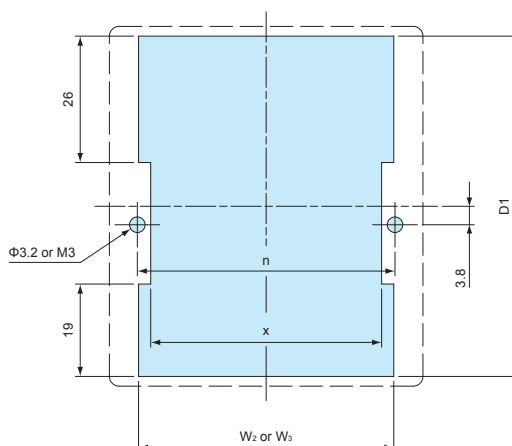
Visit our website for more details on the LD • LDN series.

LD • LDN mounting hole

Snap-in mount hole



Screwed mount hole

**Mount hole dimension**

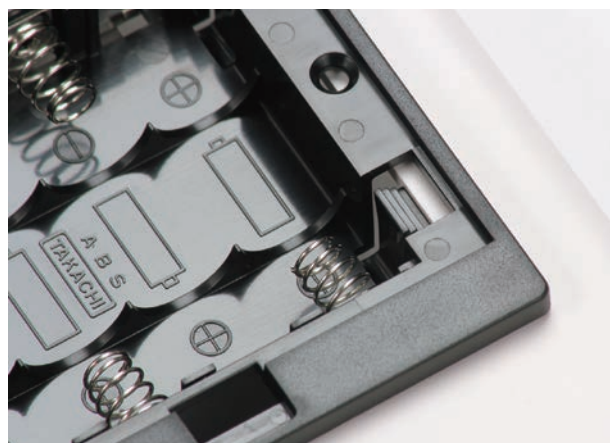
Product no.	W ₂ (thickness=2.5mm)	W ₃ (thickness=3.0mm)	D1	n	x
LD / LDN-2 • 006P	38.5	40.5	70.6	40.5	34.5
LD / LDN-3	52.5	54	70.4	53	49
LD / LDN-4	68.5	70.5	70.6	70.1	64.5

■ W₂ or W₃ size depends on the thickness of the enclosure wall used for mounting.

How to mount the battery box on the enclosure

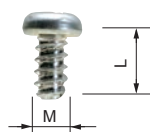
Please push the hook using a thin stick when mounting the battery box on the enclosure.

Please use minimal force when pushing to avoid breaking it.



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. / Dimensions

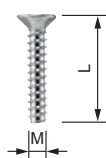
Product no.	M	L	Material	Finish	Suitable enclosures	Pack of
EM-1.6	1.6	4	Steel	Trivalent chromate	CSS • CS • PS • WC	50
EM-2	2	5	Steel	Trivalent chromate	TW • TWN • TWF • WP (M2 size)	50
EM-2.3	2.3	6	Steel	Trivalent chromate	LCT • LCS • LC • WH PF • PFF (M2.3 size) TW • TWN • TWF (M2.3 size) WP (M2.3 size)	50
NEW EM-2.6	2.6	6	Steel	Trivalent chromate	PF • PFF (M2.6 size)	50
EM-3	3	5	Steel	Trivalent chromate	TW • TWN • TWF (M3 size) • SU	50
EM-3-6	3	6	Steel	Trivalent chromate		50

MR SERIES

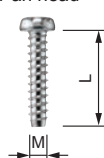
TORX SCREW



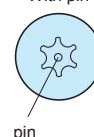
Countersunk head



Pan head



With pin



★ Without pin



★ : MR2.6-10□, MR3-14□, and MR1.6-6S are without pin.

Product no. / Dimensions

★ Mark = Without pin

Product no.	M	L	head no.	Head style	Material	Finish	Suitable enclosures	Pack of
MR1.6-6S★	1.6	6	T3	Pan	Steel	Nickel plated	CS • CSS	20
MR2.5-8PS	2.5	8	T8	Pan	Steel	Nickel plated	PF • PFF (M2.5 size)	20
MR2.6-10S★	2.6	10	T8	Countersunk	Steel	Nickel plated	TW5-2-5 / 5-3-5 TW • TWN4-2-5 / 4-2-6 / 4-2-8 / 5-2-7 TW • TWN5-3-7 / 5-4-7 / 8-2-8 / 8-4-8 TWF5-2-7 / 5-3-7 / 5-4-7	20
MR2.6-10B★	2.6	10	T8	Countersunk	Steel	Black trivalent chromate		20
MR2.6-12PS	2.6	12	T8	Pan	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6	20
MR2.6-14PS	2.6	14	T8	Pan	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
MR2.6-14S	2.6	14	T8	Countersunk	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6 TW • TWN7-2-11 / 7-4-11 / 7-5-11	20
MR2.6-18S	2.6	18	T8	Countersunk	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	20
MR3-8PS	3	8	T10	Pan	Steel	Nickel plated	PF • PFF (M3 size)	20
MR3-14S★	3	14	T10	Countersunk	Steel	Nickel plated	TW5-3-10	20
MR3-14B★	3	14	T10	Countersunk	Steel	Black trivalent chromate	TW • TWN5-3-9 / 7-3-13 / 7-5-13 / 9-4-17 / 9-6-17 TWF7-3-13 / 7-5-13 / 9-4-17 / 9-6-17	20
MR-1S	3	5	T10	Countersunk	Steel	Nickel plated	UC	20
MR-1B	3	5	T10	Countersunk	Steel	Black trivalent chromate	UC • UCY • US	20
MR-2S	3	10	T10	Countersunk	Steel	Nickel plated	HEN	20