

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



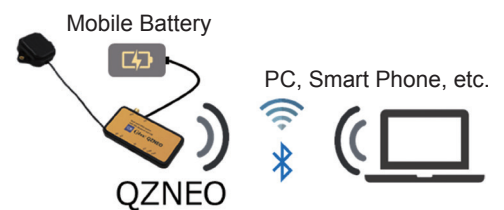
CO2 Meter



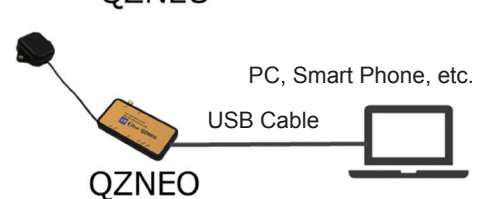
Dual-frequency GNSS Receiver



Wireless Connection



Wired Connection



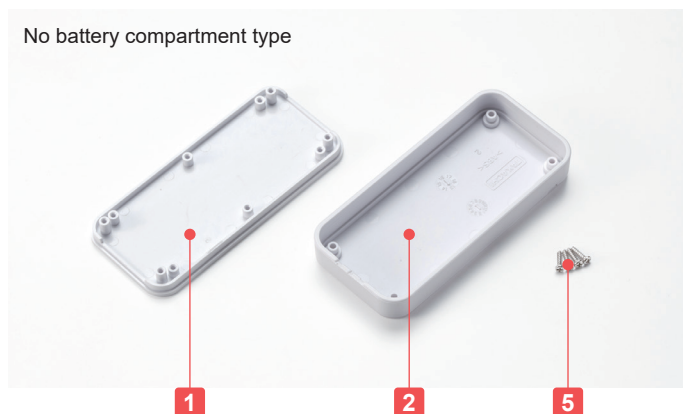


- Easy replacement of batteries. Battery contact included in each case (except for N type).
- Select proper models by enclosure dimensions and capacity of the batteries.
Typical Capacity : CR2032 : 225mAh / CR2450 : 620mAh / CR2477 : 1000mAh
- Suitable for remote controller, wireless key fob, or small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

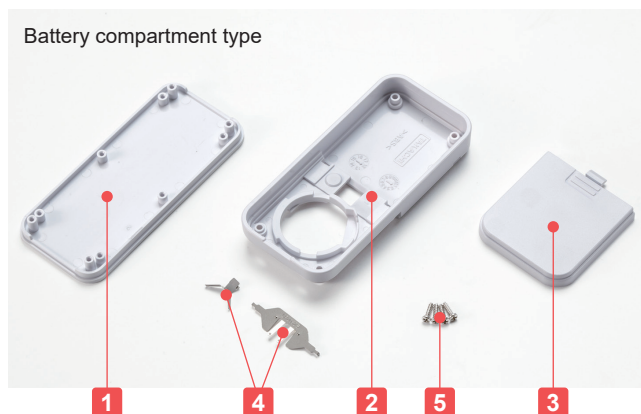
Technical Data

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

No battery compartment type



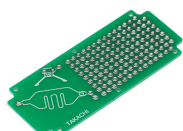
Battery compartment type



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

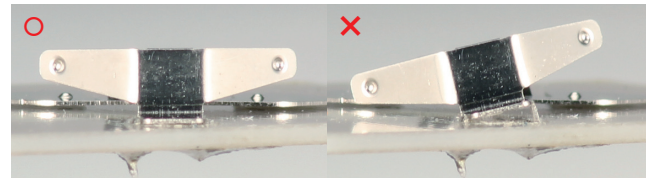
Coin Battery Contact Installation Steps



- 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.

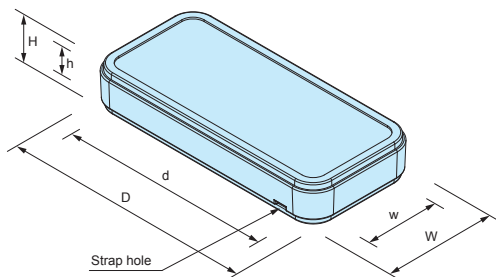
CAUTION

- 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.

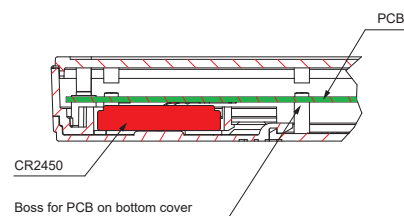


Type	CS N Type	CS75/90	CS100 ^{*1}	CS115
Battery compartment	None	CR2032 × 1	CR2450 × 1 or CR2477 ^{*2} × 1	CR2032 × 2

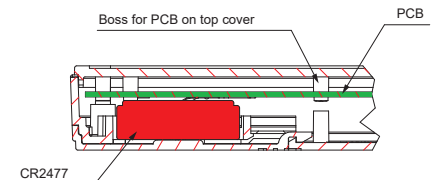
^{*1} CS100 battery type varies by PCB placement: CR2450 with PCB on bottom cover, or CR2477 with PCB on top cover. See below for the details.

^{*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		

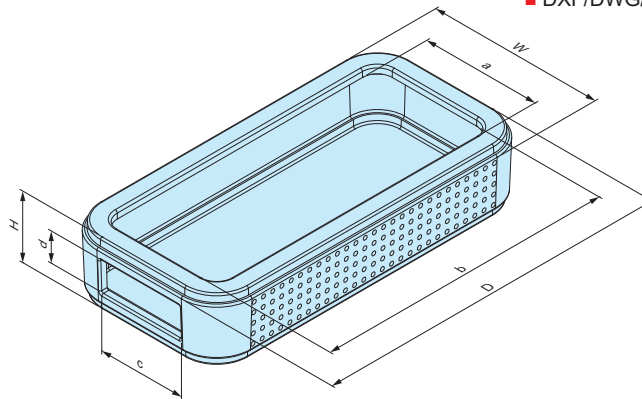
- 2 types of silicone cover which have with (Open) and without (Closed) rectangular cutout on the front side; selectable in 5 different colors.

Color Type

Code	Orange	Green	Cyan	Light gray	Black
Color					

CSSC dimensions

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



Components

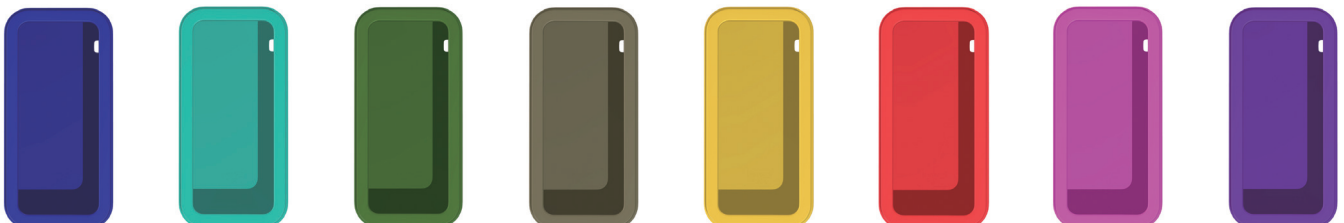
Part name	Material	Color
Silicone cover	Silicone	Orange • Green • Cyan • Light gray • Black

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.





- 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.

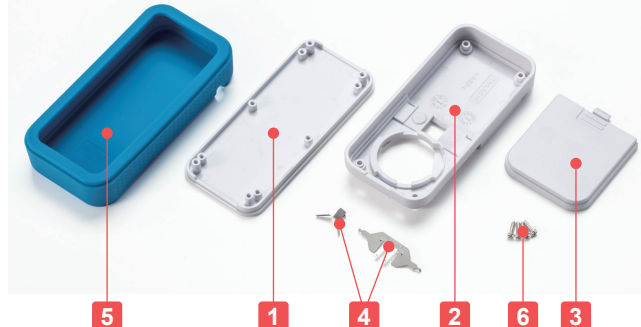
Technical Data

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

No battery compartment type



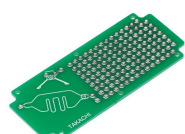
Battery compartment type



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

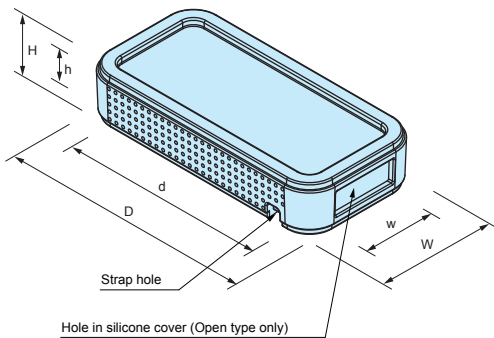
Code	CL Closed	OP Open
Shape		

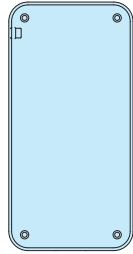
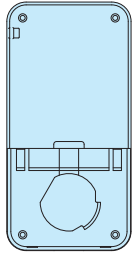
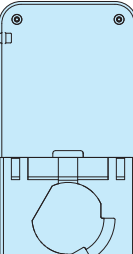
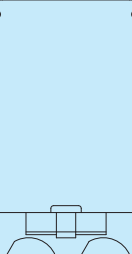
Color Type

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.

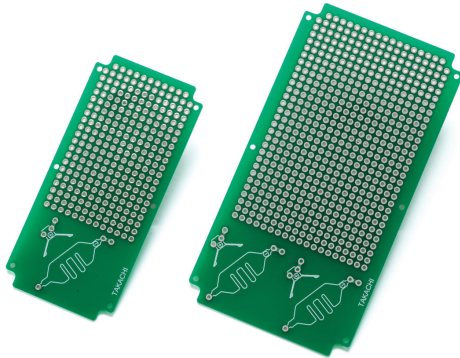
*2 Not compatible with Renata CR2477N battery.

Product no. / Details

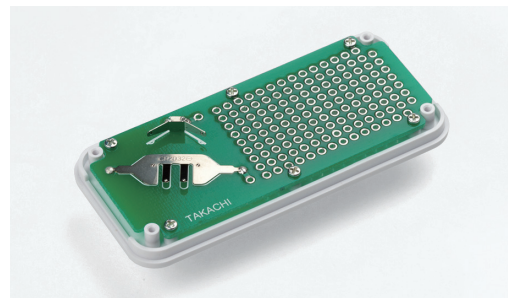
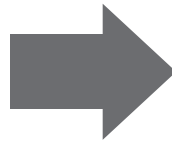
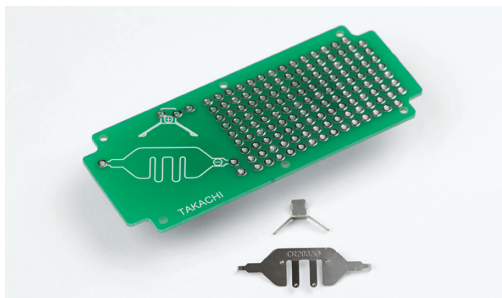
■ Please suffix color code at the end of the product number.

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.

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.

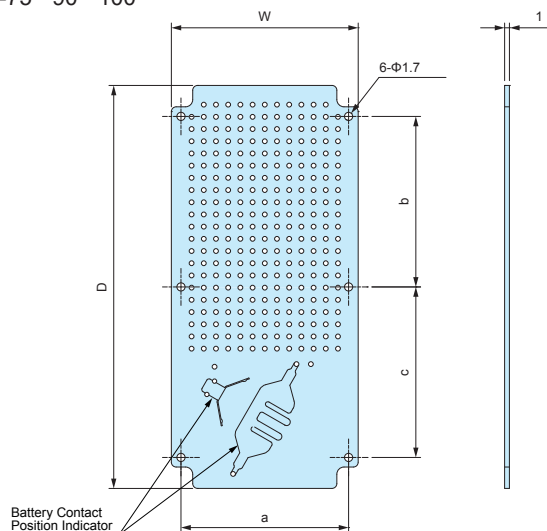
Soldering the battery contacts (included with each case) onto the PCB**Components**

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

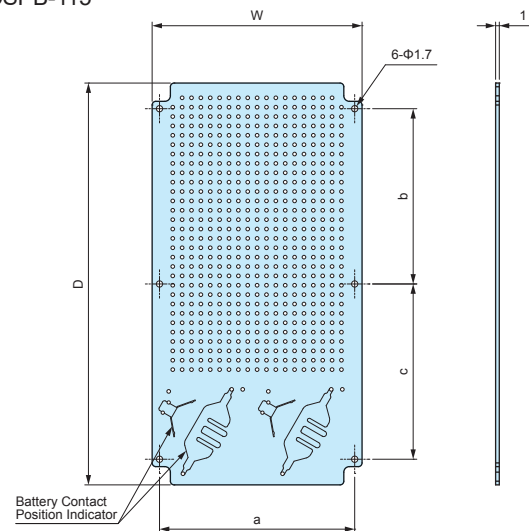
CSPB dimensions

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

CSPB-75 • 90 • 100



CSPB-115



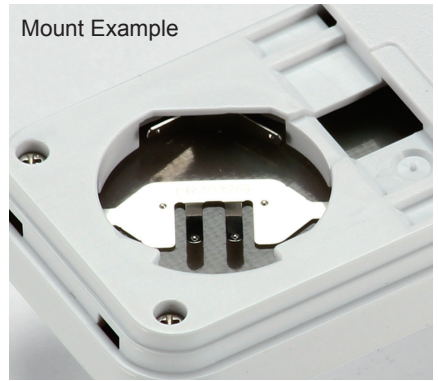
Note : Holes (6-Φ1.7) for PCB mount bosses are un-soldered.

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

CST SERIES

BATTERY CONTACT



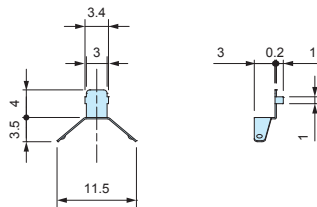
- Battery contact for CR2032, CR2450, and CR2477 coin cells.
- CST-2450 is not compatible with Renata CR2477N battery.
- CSS and CS series enclosures comes with appropriate battery contacts. Use CST series as spares or replacements.

Product no. / Feature

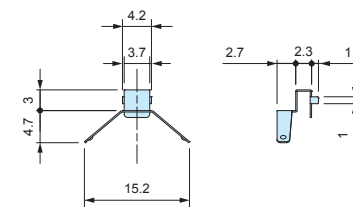
Product no.	Matching coin cell	Material / Finish	Contact type	Pack of
CST-2032P	CR2032	SUS304 / Nickel plated	Through hole x 2	10
CST-2032M	CR2032	SUS304 / Nickel plated	Through hole x 2	10
NEW CST-2450P	CR2450 / CR2477	SUS304 / Nickel plated	Through hole x 2	10
NEW CST-2450M	CR2450 / CR2477	SUS304 / Nickel plated	Through hole x 2	10

- Detailed DXF/DWG/PDF drawings available online.
- Refer to the photos for the contact direction when installing.

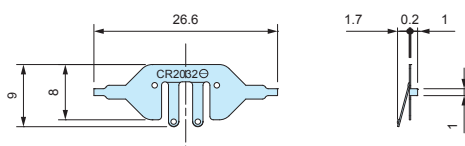
CST-2032P



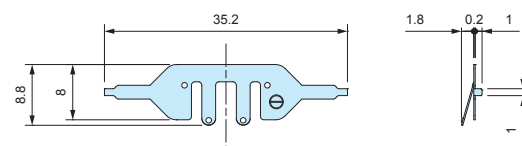
CST-2450P



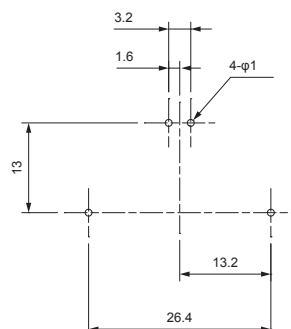
CST-2032M



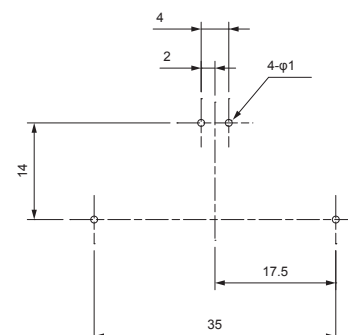
CST-2450M



Recommended PCB hole layout

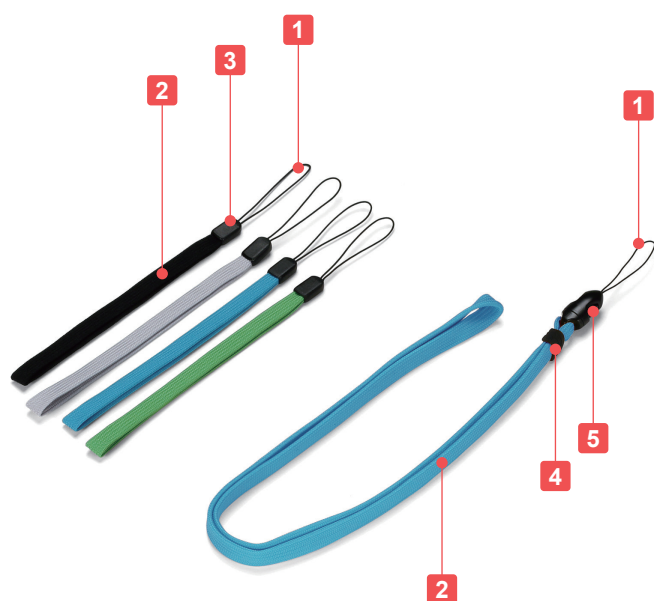


Recommended PCB hole layout



STPS series

STRAP



APPLICATION EXAMPLE

Wrist strap (STPS-140G)



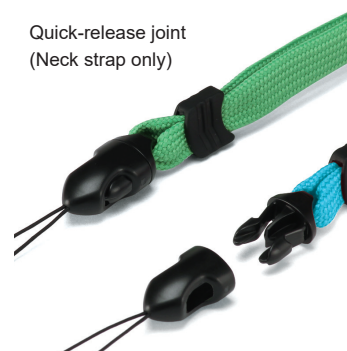
Neck strap (STPS-450C)



- 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



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

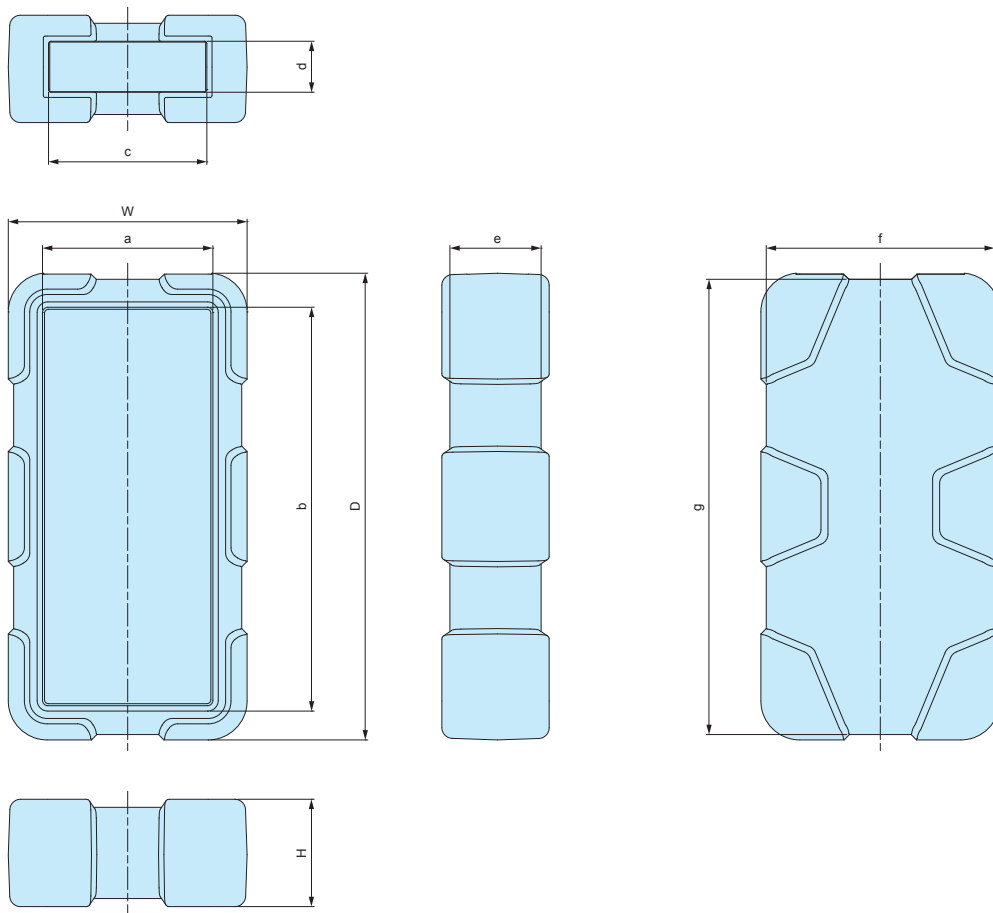
■ Please suffix color code at the end of the product number.

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

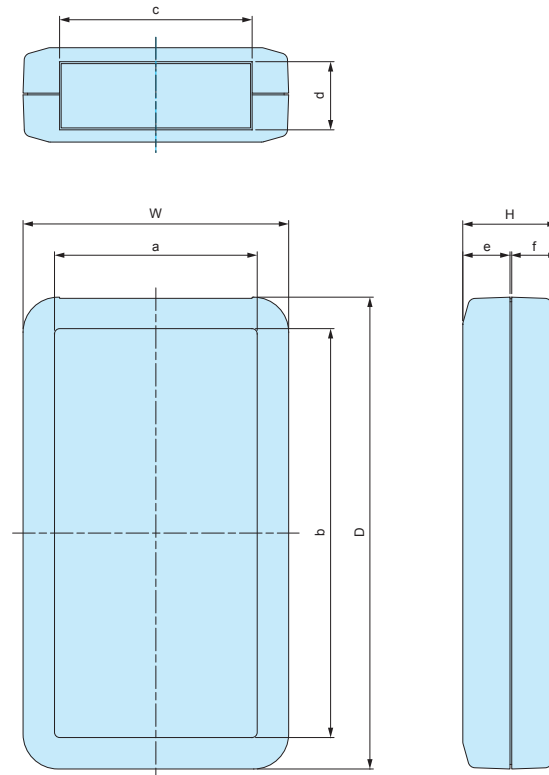
■ DXF/DWG/PDF drawings available on our website.



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.

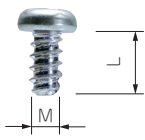


■ Please suffix color code at the end of the product number.

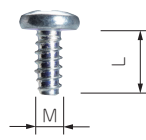
Product no.	W	H	D	a	b	c	d	e	f	Battery compartment
LCT115 -N -□□	69	19.5	115	54	100	48.1	12	10	9	None
LCT115 -F2 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 2
LCT115 -F3 -□□	69	19.5	115	54	100	48.1	12	10	9	AAA x 3
LCT115H -N -□□	69	28	115	54	100	48.1	20.5	18.5	9	None
LCT115H -F2 -□□	69	28	115	54	100	48.1	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

EM series**PCB MOUNTING SCREW**

Pan head



Bind head



- 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.

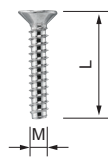
Product no. / Details

■ Material / Finish : Steel / Trivalent chromate

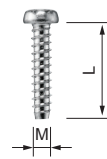
Product no.	M	L	Head type	Suitable models	Pack of
EM-1.6	1.6	4	Pan	SMW • CSS • CS SIC • SIM • WC • PS (M1.6 boss models)	50
EM-2	2	5	Pan	PS • TW • TWN • TWF SIC • SIM • PF • WC • WP (M2 boss models)	50
NEW EM-B2	2	5	Bind	SIC • SIM (M2 boss models) SIC • SIM6-12-□ (when installing PCB46-101)	50
EM-2.3	2.3	6	Pan	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	Pan	WSC (Bottom base bosses)	50
EM-2.6	2.6	6	Pan	PF • PFF • WP (M2.6 boss models)	50
EM-3	3	5	Pan	SU • OP	50
EM-3-6	3	6	Pan	TWS • TW • TWN • TWF (M3 boss models)	50

MR series**TORX SCREW**

Flat head



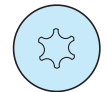
Pan head



With pin



★ Without pin



- Self-tapping torx screws for securing of the enclosure.

★ : MR1.6-6S, MR2.6-10□, MR3-5Z□ and MR3-14□ are without pin.

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

NMG series**NEODYMIUM MAGNET****Round magnet**

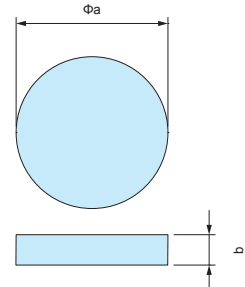
■ DXF/DWG/PDF drawings available on our website.



- Material / Finish: Neodymium / Nickel plated
- Please attach using a strong adhesive.

Product no. / Details

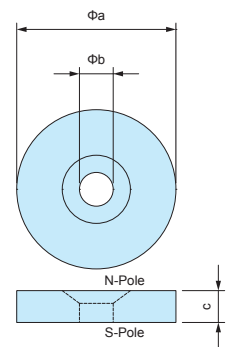
Product no.	a	b	Weight (g)	Flux Density	Absorption
NMG3-15N	15	3	4	214.4 mT	2.44 kgf
NMG3-20N	20	3	7.1	170.7 mT	3.26 kgf
NMG5-22N	22	5	11.4	247.2 mT	5.91 kgf
NMG5-25N	25	5	18.4	221.9 mT	6.89 kgf

NMG dimensions**Round magnet with countersunk hole**

- Please fasten with a screw.

**Product no. / Details**

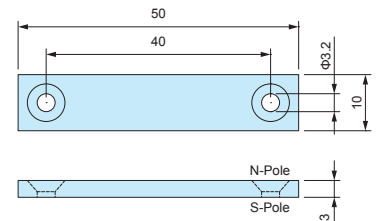
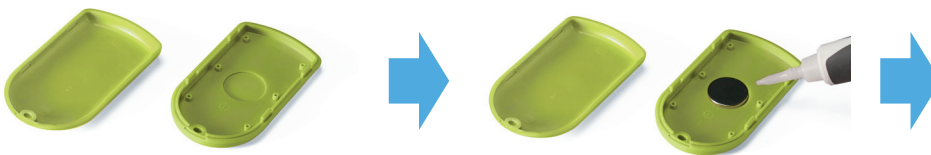
Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-15M3	15	3.2	3	M3	3.8	214.3 mT	2.33 kgf
NMG3-20M3	20	3.2	3	M3	6.9	170.6 mT	3.17 kgf
NMG5-22M4	22	4.3	5	M4	13.7	247.2 mT	5.68 kgf
NMG5-25M5	25	5.3	5	M5	17.6	221.9 mT	6.58 kgf

**Rectangular magnet with countersunk holes**

- Please fasten with a screw.

**Product no. / Details**

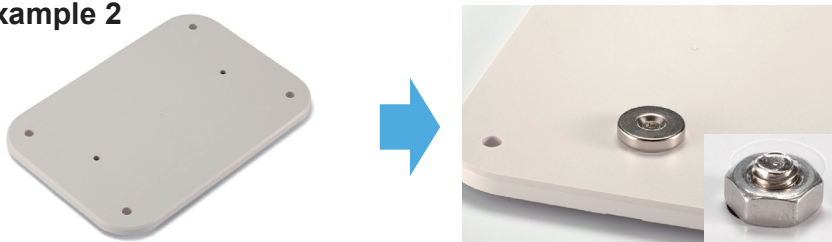
Product no.	a	b	c	Countersunk size	Weight (g)	Flux Density	Absorption
NMG3-50M3	50	10	3	M3	11.3	210.0 mT	9.1 kgf

**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.