

CS SERIES

NEW SIZE, NEW TYPE RELEASED!

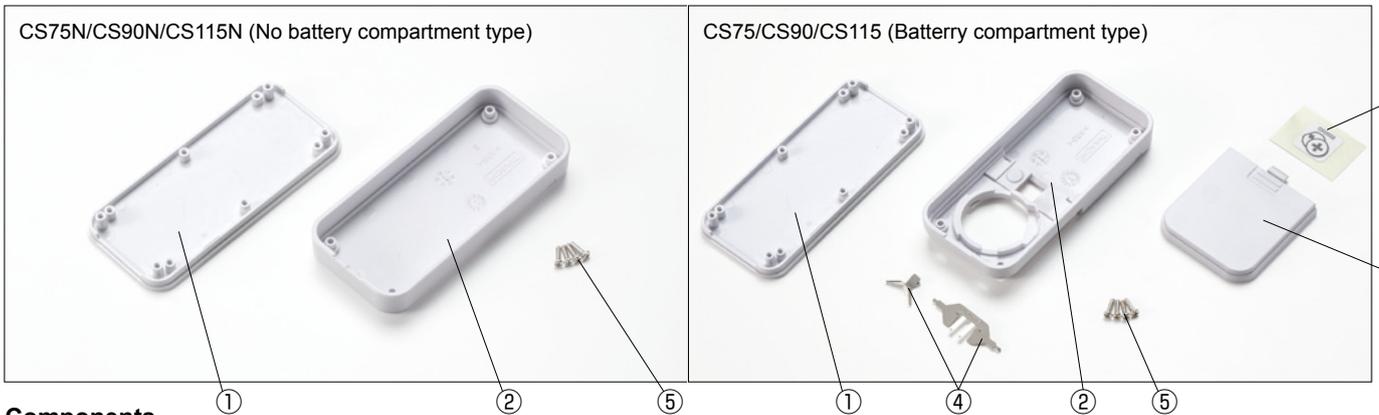
■Operating Temperature■
-10°C~+60°C

CS PORTABLE PLASTIC CASE



FEATURE

- Smart phone sized CS115 with CR2032 battery compartment for 2 batteries and no battery compartment versions are prepared.
- Easy battery changing. Battery contacts come with each case.
- Suitable for remote controller, wireless key fob, small tester/device etc.
- 3 sizes, 6 models. Black and White are prepared.



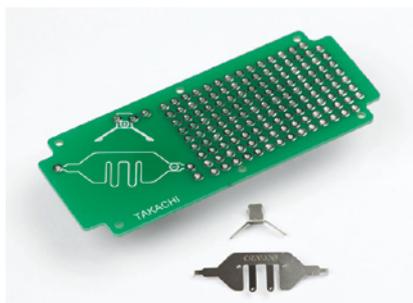
Components

Ref. #	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 set (CS115)	SUS304	Nickel plated
5	Screw	4	M1.6 Steel	Nickel plated · Black trivalent chromate
6	CR2032 Sticker	1	PP	—

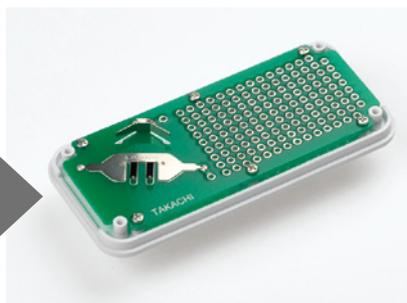
Accessories (Optional parts)



Coin Battery Contact Installation Step



Soldering the contacts on PCB



Installing PCB on top cover



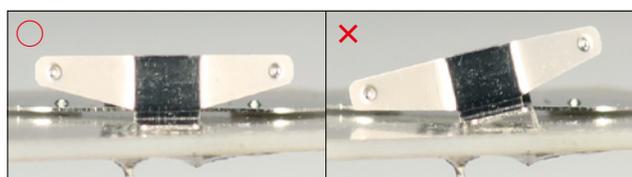
All set!

- Exclusive PCB are prepared as the optional parts. See page 8 for the details.
Please use the figure of dimensions and screw hole layout on page 8 for your original PCB as well.

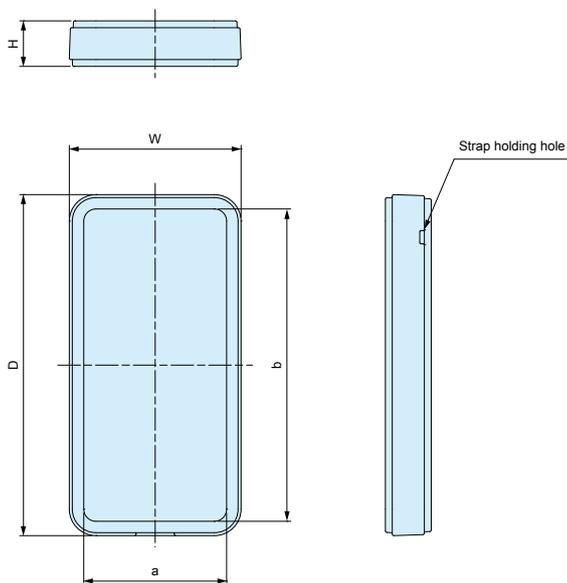


Stick CR2032 sticker on the backside of the battery cover to mention the right direction to set.

NOTE • Be aware of the mount position of the battery contact.



CS Dimensions



NEW

NEW

No Battery Compartment CS75N/90N/115N	CR2032 × 1 CS75/CS90	CR2032 × 2 CS115

Color Type

Color code	Color
W	White
B	Black

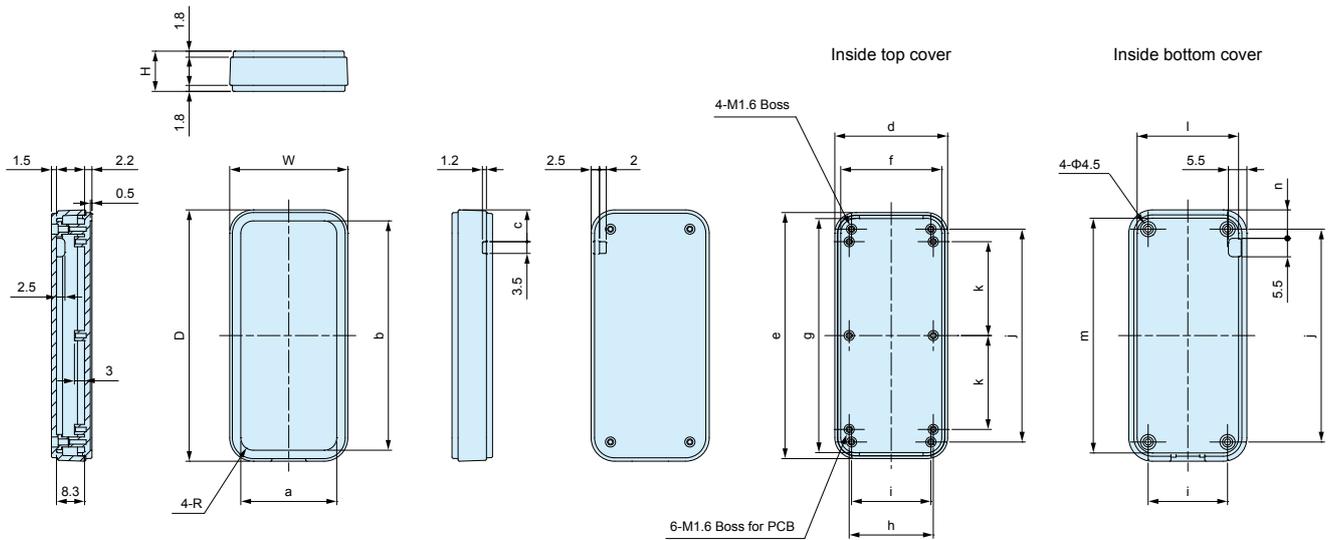
Part no. / Dimensions

• Please suffix color code at the end of part number □ when ordering CS series.

Part no.	W	H	D	a	b	Battery Compartment	Weight (g)
NEW CS75N -□	35	12	75	28.4	68.4	None	12
CS75 -□	35	12	75	28.4	68.4	CR2032 × 1	13
NEW CS90N -□	45	12	90	37.4	82.4	None	18
CS90 -□	45	12	90	37.4	82.4	CR2032 × 1	20
NEW CS115N -□	63	12	115	55.4	107.4	None	30
NEW CS115 -□	63	12	115	55.4	107.4	CR2032 × 2	33

CS75N/CS90N/CS115N Dimensions

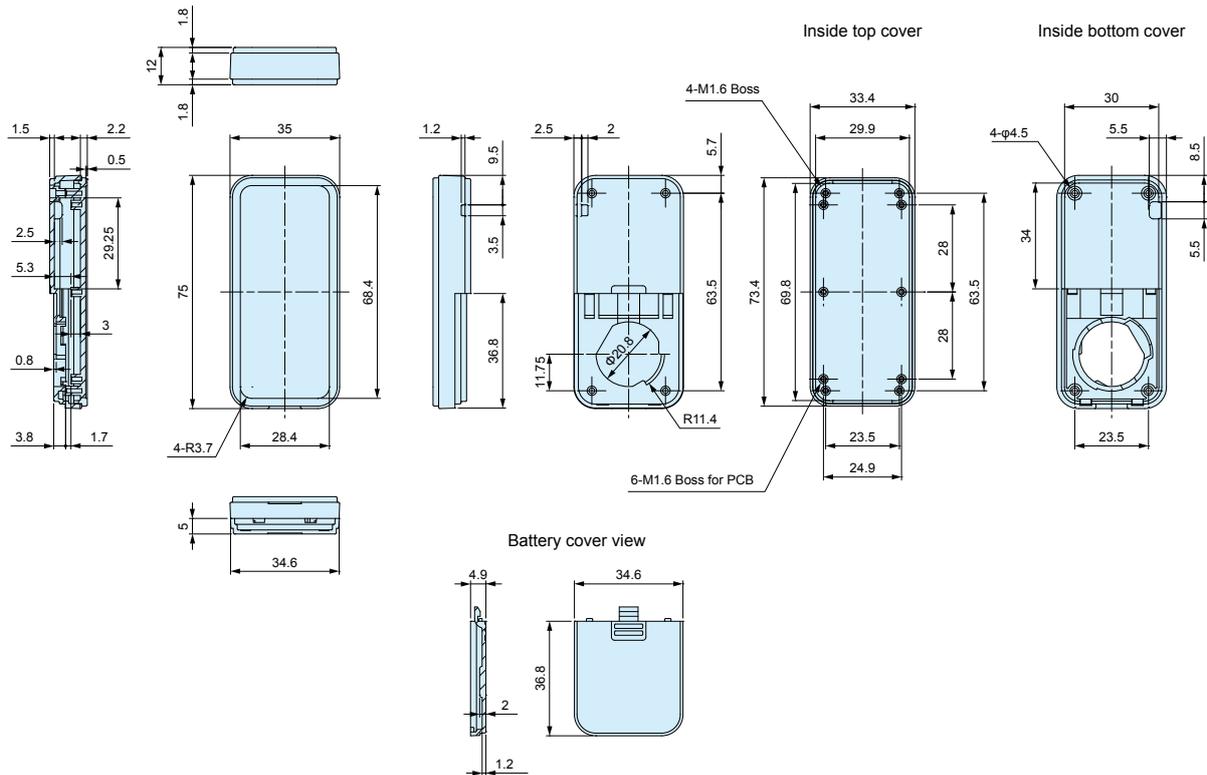
• CAD data is downloadable from our website.



Part no.	W	H	D	R	a	b	c	d	e	f	g	h	i	j	k	l	m	n
CS75 N-□	35	12	75	3.7	28.4	68.4	9.5	33.4	73.4	29.9	69.8	24.9	23.5	63.5	28	30	70	8.5
CS90 N-□	45	12	90	3.2	37.4	82.4	9.5	43.4	88.4	39.9	84.8	34.9	33.5	78.5	35.5	40	85	8.5
CS115N-□	63	12	115	4.7	55.4	107.4	10.5	61.4	113.4	57.9	109.8	52.9	50.5	102.5	47.5	58	110	9.5

CS75 Dimensions

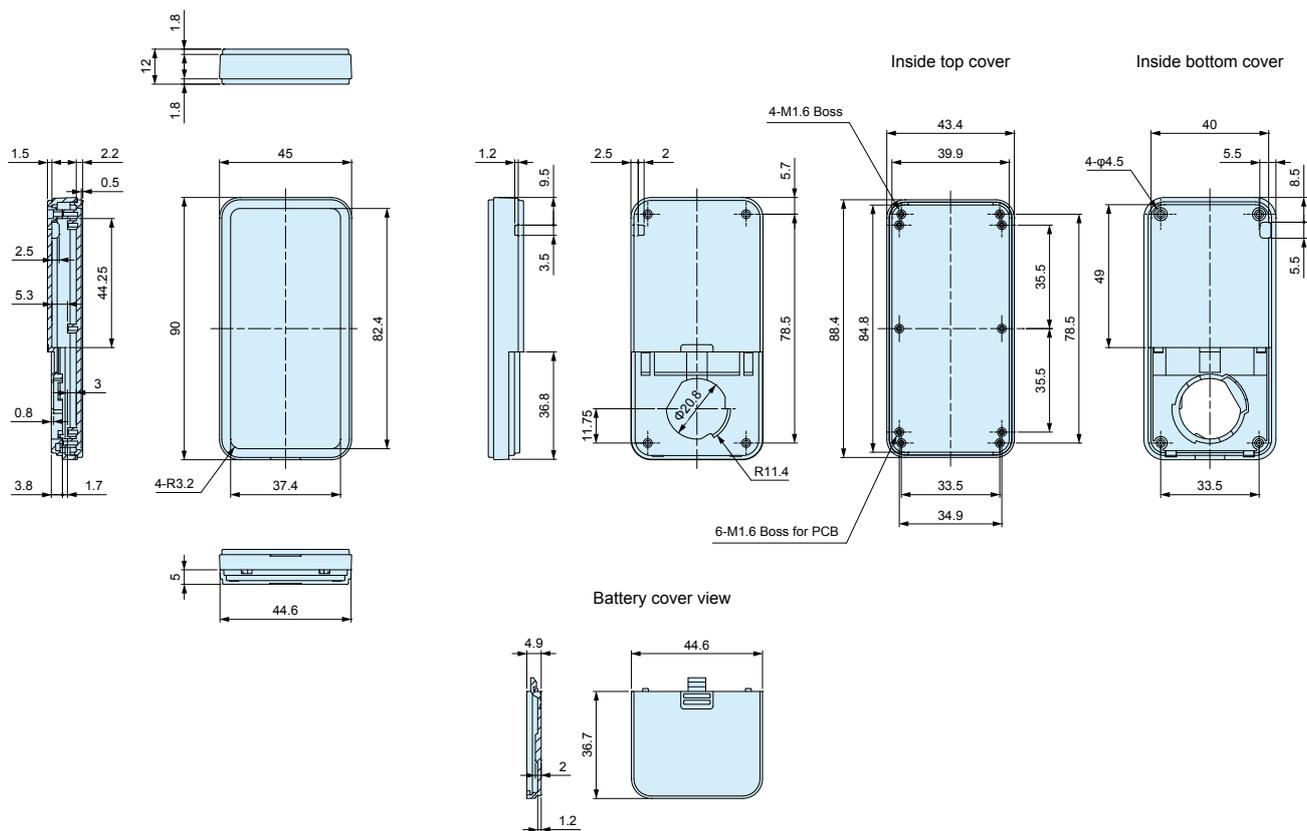
- CAD data is downloadable from our website.
- Use the figure of dimensions and screw hole layout on page 8 for your original PCB.



CS90 Dimensions

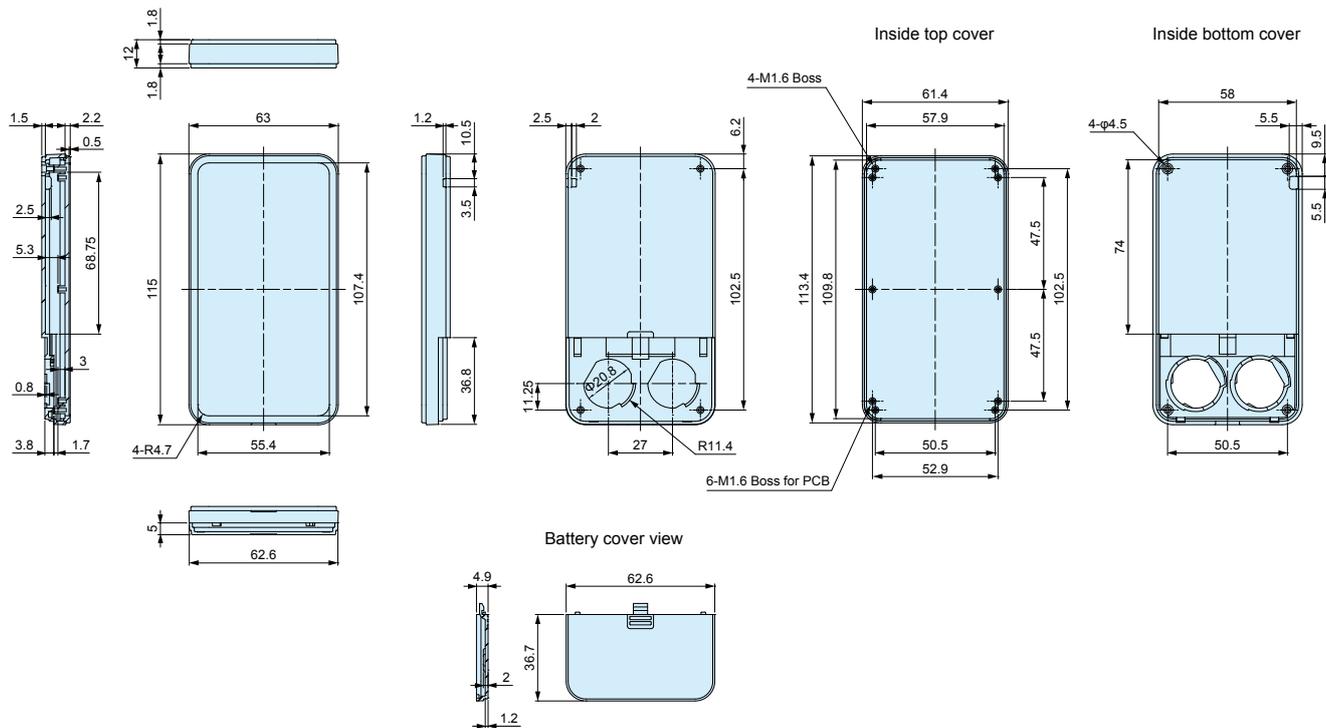
- CAD data is downloadable from our website.
- Use the figure of dimensions and screw hole layout on page 8 for your original PCB.

CS SERIES



CS115 Dimensions

- CAD data is downloadable from our website.
- Use the figure of dimensions and screw hole layout on page 8 for your original PCB.



CSS SERIES

NEW SIZE, NEW TYPE RELEASED

Operating Temperature

-10°C~+60°C

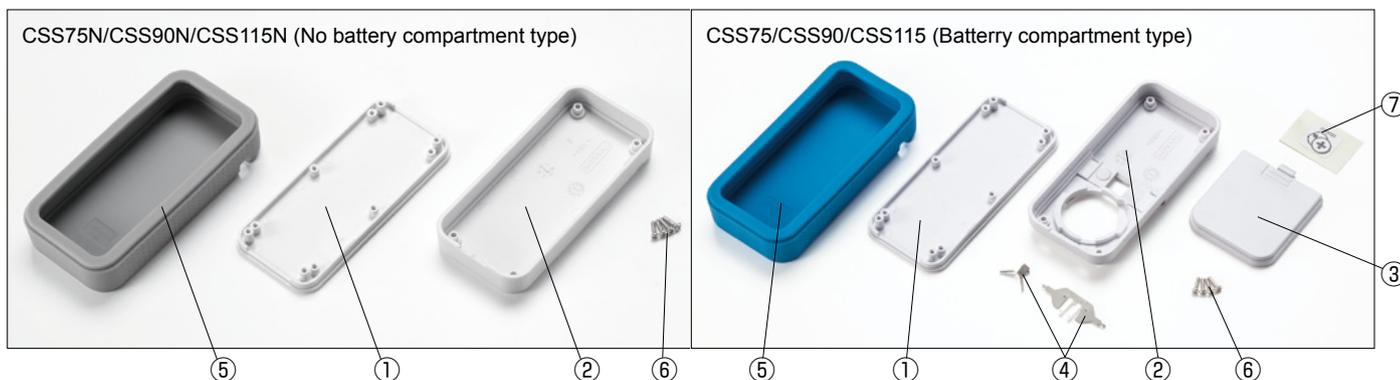
CS PORTABLE PLASTIC CASE WITH SILICONE COVER



FEATURE

- Small plastic case with silicone cover. Elasticity and grippy, and protect your device from the drop impact.
- Smart phone sized CSS115 with CR2032 battery compartment for 2 batteries and no battery compartment versions are prepared.
- Built-in CR2032 battery compartment and easy to change/put the coin battery.
- Suitable for remote controller, wireless key fob, small tester/device and so on.
- Available in 3 sizes 6 models and selectable in 12 color combinations.

Prepared 2 types of the silicone cover which have with(Open) and without(Closed) a rectangle cutout on the front side.



Components

Ref. #	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 set (CS115)	SUS304	Nickel plated
5	Silicone cover	1	Silicone	Pink · Yellow · Green · Blue · Light gray · Black
6	Screw	4	M1.6 Steel	Nickel plated · Black trivalent chromate
7	CR2032 sticker	1	PP	—

Accessories (Optional parts)

<p>Exclusive PCB CSPB series</p> <p>See CSPB</p>	<p>Strap STPS series</p> <p>See STPS</p>	<p>PCB Mount screw EM-1.6</p> <p>See EM-MR</p>	<p>Trox screw MR1.6-6S</p> <p>See EM-MR</p>
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Silicone Cover Type

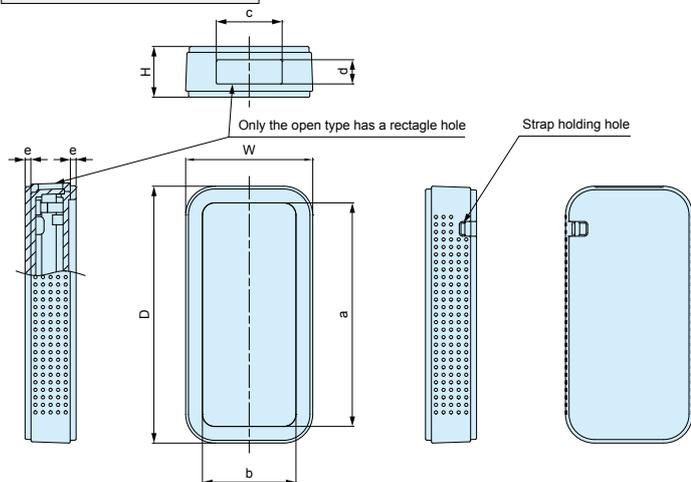
Shape		
Code	Closed CL	Open OP

CSS SERIES

Color Type

Color						
Color code	Black / Pink B/P	Black / Yellow B/Y	Black / Green B/G	Black / Cyan blue B/C	Black / Light gray B/L	Black / Black B/B
Color						
Color code	White / Pink W/P	White / Yellow W/Y	White / Green W/G	White / Cyan blue W/C	White / Light gray W/L	White / Black W/B

CSS Dimensions



	NEW	NEW
No battery Compartment CSS75N/90N/115N	CR2032 × 1 CSS75/CSS90	CR2032 × 2 CSS115

- CAD data is downloadable from our website.
- Use the figure of dimensions and screw hole layout on page 8 for your original PCB.

Part no. / Dimensions

• Please suffix color code at the end of part number □□ when ordering CSS series.

Part no.	W	H	D	a	b	c	d	e	Battery Compartment	Weight (g)
NEW CSS 75N-CL-□□	38.6(35)	15.5(12)	78.6 (75)	68.4	28.4	—	—	1.75	None	24
NEW CSS 75N-OP-□□	38.6(35)	15.5(12)	78.6 (75)	68.4	28.4	20	7.4	1.75	None	24
CSS 75 -CL-□□	38.6(35)	15.5(12)	78.6 (75)	68.4	28.4	—	—	1.75	CR2032×1	25
CSS 75 -OP-□□	38.6(35)	15.5(12)	78.6 (75)	68.4	28.4	20	7.4	1.75	CR2032×1	25
NEW CSS 90N-CL-□□	48.6(45)	15.5(12)	93.6 (90)	82.4	37.4	—	—	1.75	None	36
NEW CSS 90N-OP-□□	48.6(45)	15.5(12)	93.6 (90)	82.4	37.4	30	7.4	1.75	None	35
CSS 90 -CL-□□	48.6(45)	15.5(12)	93.6 (90)	82.4	37.4	—	—	1.75	CR2032×1	38
CSS 90 -OP-□□	48.6(45)	15.5(12)	93.6 (90)	82.4	37.4	30	7.4	1.75	CR2032×1	37
NEW CSS115N-CL-□□	67.1(63)	16 (12)	119.1(115)	107.4	55.4	—	—	2	None	62
NEW CSS115N-OP-□□	67.1(63)	16 (12)	119.1(115)	107.4	55.4	45	7.4	2	None	61
NEW CSS115 -CL-□□	67.1(63)	16 (12)	119.1(115)	107.4	55.4	—	—	2	CR2032×2	65
NEW CSS115 -OP-□□	67.1(63)	16 (12)	119.1(115)	107.4	55.4	45	7.4	2	CR2032×2	64

• () dimensions = case dimensions

CSSC SERIES

NEW SIZE RELEASED

CSSC SILICONE COVER

Silicone Cover Type

Shape		
Code	Closed CL	Open OP

FEATURE

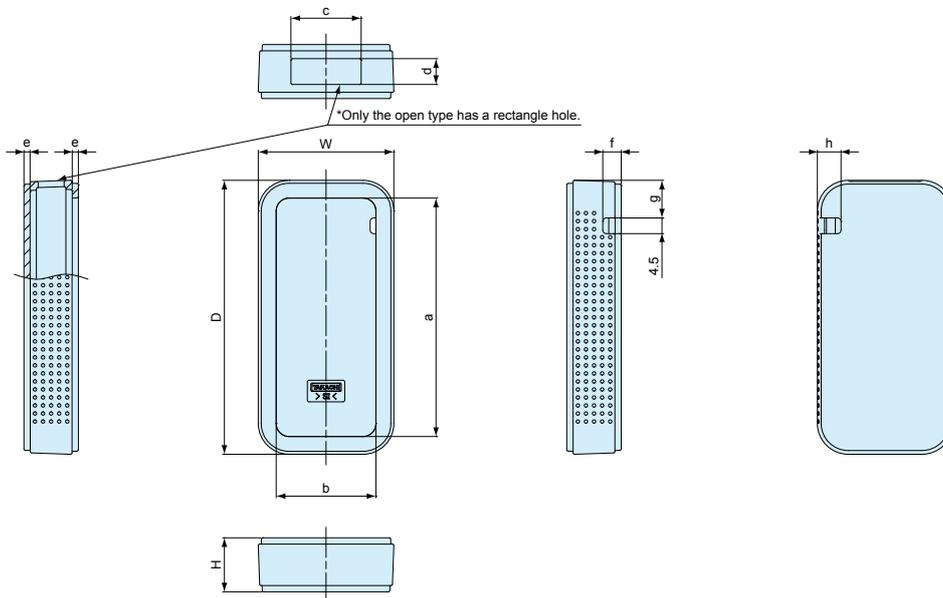
- Prepared 2 types of the silicone cover which have with(Open) and without(Closed) a rectangle cut out on the front side, and selectable in 6 colors.
- Custom color is available from 1,000pcs per order batch. For custom color order, please specify **PANTONE®**, RGB color number or provide your sample color.

Color Type

Color						
Color Code	Pink P	Yellow Y	Green G	Cyan blue C	Light gray L	Black B

CSSC Dimensions

- CAD data is downloadable from our website.



Components

Part name	Pcs	Material	Color / Finish
Silicone cover	1	Silicone	Pink · Yellow · Green · Blue · Light gray · Black

Part no. / Dimensions

- Please suffix color code at the end of part number □ when ordering CSSC series.

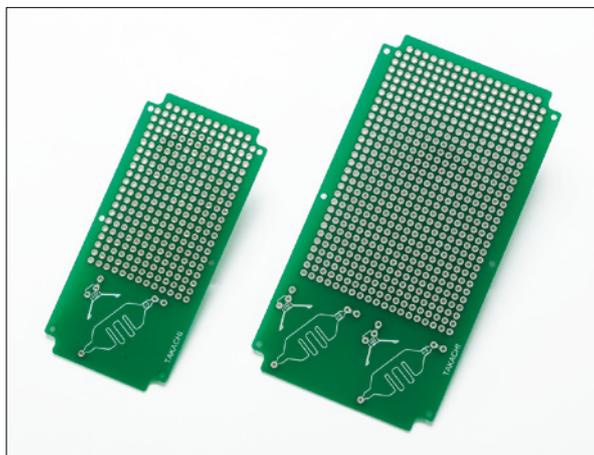
Part no.	W	H	D	a	b	c	d	e	f	g	h	Suitable case	Weight (g)
CSSC 75-CL -□	38.6	15.5	78.6	68.4	28.4	—	—	1.75	5.25	10.8	6.7	CS 75	12
CSSC 75-OP -□	38.6	15.5	78.6	68.4	28.4	20	7.4	1.75	5.25	10.8	6.7	CS 75	12
CSSC 90-CL -□	48.6	15.5	93.6	82.4	37.4	—	—	1.75	5.25	10.8	6.7	CS 90	18
CSSC 90-OP -□	48.6	15.5	93.6	82.4	37.4	30	7.4	1.75	5.25	10.8	6.7	CS 90	17
NEW CSSC115-CL -□	67.1	16	119.1	107.4	55.4	—	—	2	5.5	12.1	7	CS115	32
NEW CSSC115-OP -□	67.1	16	119.1	107.4	55.4	45	7.4	2	5.5	12.1	7	CS115	31

CSPB SERIES

Accessories (Optional parts)

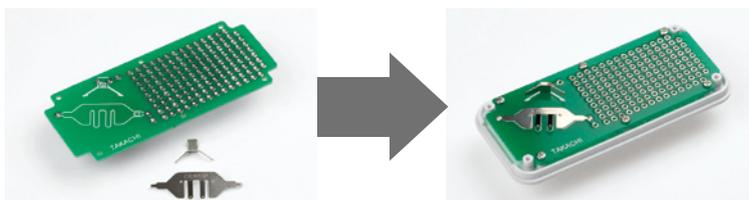
CSPB EXCLUSIVE PCB FOR CS · CSS

NEW SIZE RELEASED



- Exclusive PCB for CS · CSS case.
- Glass epoxy board (FR-4), through-hole on both sides and 2.54mm hole distance.
- Prepared holes for a battery contact coming with CS · CSS case. The contact directions are printed on PCB.

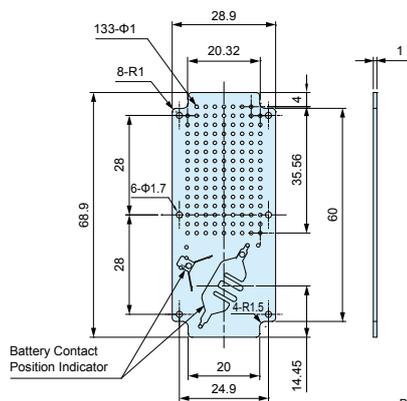
Soldering the battery contacts coming with CS · CSS case



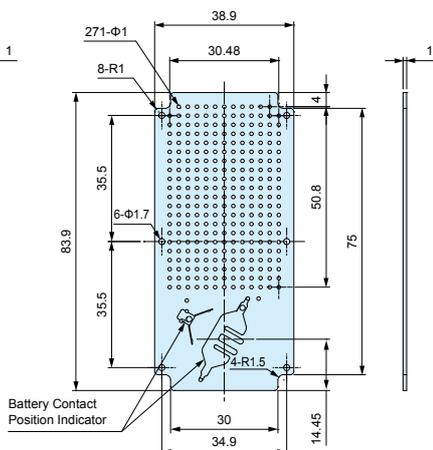
CSPB Dimensions

- CAD data is downloadable from our website.

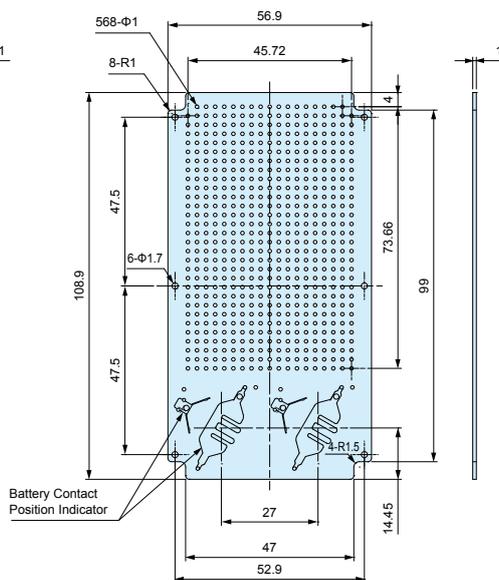
CSPB-75



CSPB-90



CSPB-115



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

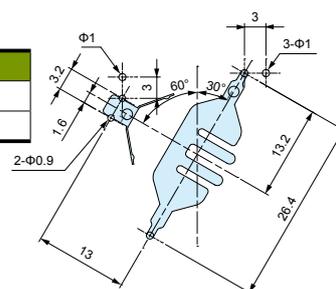
Battery Contact Position Indicator Details

Components

Part name	Pcs	Material	Finish
PCB	1	Glass epoxy (FR-4) t 1.0	Through-hole · Lead free solder · Resist
Screw	6	M1.6 Steel	Trivalent chromate

Part no.

Part no.	Suitable Case
CSPB- 75	CS 75, CSS 75
CSPB- 90	CS 90, CSS 90
NEW CSPB-115	CS115, CSS115



STPS SERIES

Accessories (Optional parts)

STPS STRAP



Wrist strap (STPS-140P)



Neck strap (STPS-450Y)



FEATURE

- The best fit and colorful strap for CSS, CS, and PS series.
Prepared 2 types of Wrist and Neck straps and selectable in 6 colors.
Applied a quick-release joint for neck strap, and it makes easy and free.



Color Type

Color						
Code	Pink P	Yellow Y	Green G	Cyan Blue C	Light Gray L	Black B

Components

Ref. #	Part name	Pcs	Material	Color
1	String	1	Polyester	Black
2	Strap	1	Polyester	Pink · Yellow · Green · Cyan blue · Light gray · Black
3	Cap (Wrist strap only)	1	Nylon	Black
4	Clamp (Neck strap only)	1	Elastmer	Black
5	Joint (Neck strap only)	1	Polyacetal	Black

Part no. / Dimensions

• Please suffix color code at the end of part number □ when ordering STPS series.

Part no.	Strap width	Strap length
STPS-140□	8	140
STPS-450□	10	450

CST·CSGS SERIES

Accessories (Optional parts)

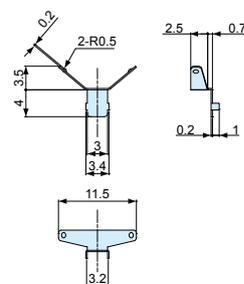
CST Battery Contact for CR2032 Coin Cell

- CAD data is downloadable from our website.

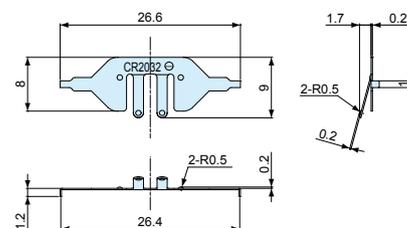


CST Dimensions

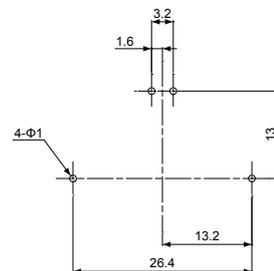
CST-2032P



CST-2032M



Recommended PCB hole layout



FEATURE

- Battery Contact for CR2032 Coin Cell
- "CR2032" and "-" indicators are engraved on the negative-side.
- Battery contacts come with each CS · CSS case. Use these extra contacts for your lost or spare.

Components

Parts no.	Battery	Material/Finish	Mount Type	Sales Unit
CST-2032P	CR2032	SUS304/Nickel plated	Through-hole pin x 2	10
CST-2032M	CR2032	SUS304/Nickel plated	Through-hole pin x 2	10

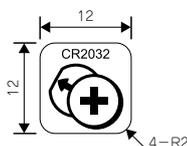
- Refer to the photo for the proper direction of the battery contacts.

CSGS CR2032 Sticker



FEATURE

- Sticker indicating the direction of the battery to insert.
- A sticker comes with each CS · CSS case. Use these extra stickers for your lost or spare.



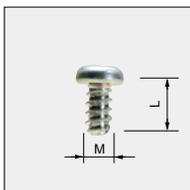
Components

Parts no.	Material	Thickness	Suitable Case	Sales Unit
CSGS-2032	PP	0.08	CS CSS · Series	10

EM·MR SERIES

Accessories

EM TAPPING SCREW



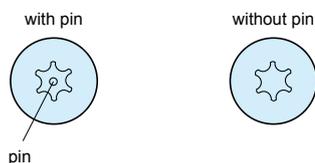
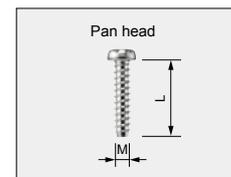
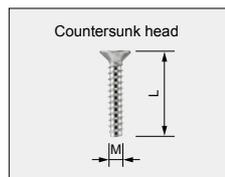
- Self-tapping screws are for mounting PCB on bosses or standoffs.

Part no. / Dimensions

1 pack = 50 pcs

Part no.	M	L	Material	Color / Finish	Sales unit	Applicable enclosure
EM-1.6	1.6	4	Steel	Trivalent chromate	50	CS·CSS
EM-2.3	2.3	6	Steel	Trivalent chromate	50	LCT·LCS·LC

MR TORX SCREW



*Note: MR1.6-6S is without pin.

Part no. / Dimensions

1 pack = 20 pcs

Screw type	Part no.	M	L	TORX head no.	Material	Finished	Sales unit	Suitable enclosure
Countersunk head tapping screw	MR2.6-14S	2.6	14	T 8	Steel	Nickel plated	20	LCT/LCS/LC115-N · F2 · F3
	MR2.6-18S	2.6	18	T 8	Steel	Nickel plated	20	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/LC165-N · M4 LCT/LCS/LC165H-N · M4
Pan head tapping screw	MR1.6-6S*	1.6	6	T 3	Steel	Nickel plated	20	CS · CSS
	MR2.6-12PS	2.6	12	T 8	Steel	Nickel plated	20	LCT/LCS/LC115-F2 · F3
	MR2.6-14PS	2.6	14	T 8	Steel	Nickel plated	20	LCT/LCS/LC115H-F2 · F3 · M2 · 9V LCT/LCS/LC135-F4 · M2 · M3 · 9V LCT/LCS/LC135H-F4 · M2 · M3 · 9V LCT/LCS/LC165-M4 LCT/LCS/LC165H-M4

CS·CSS·LCT·LCS·LC SERIES

APPLICATION EXAMPLE

CNC milling and punching

CNC milling for the case and punching for silicone cover are available in short lead time.

Please provide your holes/cutouts layout drawing by DXF or DWG format recommended.



Inkjet Printing

Inkjet Printing is available. You can save your initial tooling cost compared to the silkscreen printing. Short lead time with no initial tooling, color gradation and multi-color printing without extra charges are available. This technology also enables to print to the edge where there is the height difference up to 2.0 mm.



Decorative sheet



Custom design and color silicone cover



Feel free to ask us about the custom design silicone cover. Custom color is available from 500 pcs order lot.

Painting



EMC plating / coating


TAKACHI
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