IP67 WEARABLE ENCLOSURE



Stylish and luxurious mirror finish enclosure body





Water-repellent comfortable silicone wrist strap



High water resistance of IP67 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



SMW series

IP67 WEARABLE ENCLOSURE





- 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 : IPor (comm.)

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

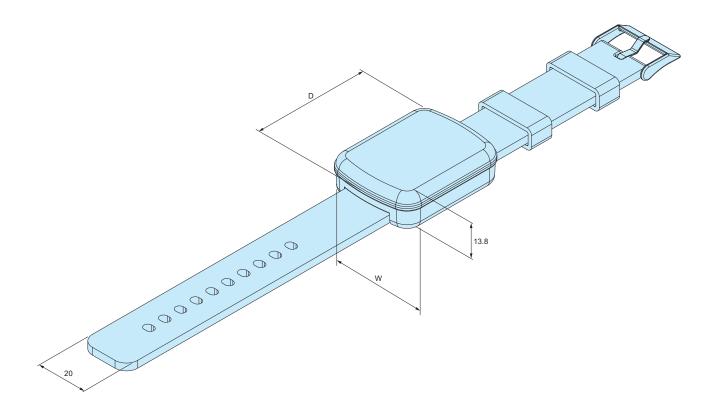
No.	Part name	Pcs	Material	Color / Finish
4	Ton cover	1	ABS (UL94HB)	Black / Polished
'	Top cover		ASA (UL94HB)	Off-white / Polished
2	Bottom cover	1	ABS (UL94HB)	Black / Polished
4	Bottom cover		ASA (UL94HB)	Off-white / Polished
3	Gasket	1	Silicon	Black
4	Tapping screw	4	Stainless steel	Unfinished
5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



PCB mounting screw EM-1.6 See page 398

SMW dimensions

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



Product no. / Details

Produ	Product no.			Mainte (n)
Black	Off-white	W	D	Weight (g)
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

PB621

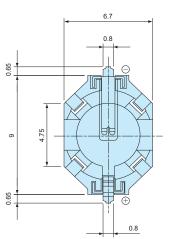
ML621 • SR621 SMALL BATTERY HOLDER



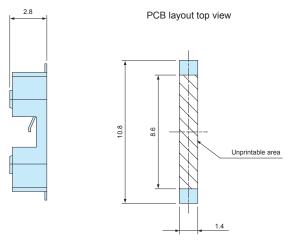
Technical Data

Operating temperature: -25°C ~ +85°C

Heat resistant glass fiber filled LCP for lead free reflow soldering.



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



Components

Holder material	Holder color	Contact material	Contact finish	
Glass fiber filled LCP (UL94V-0)	lvorv	Copper alloy	Gold plated	

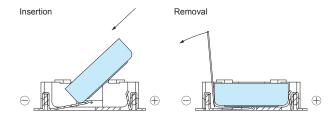
Product no. / Feature

Product no.	Matching battery	Contact type	Weight (g)	Pack of
PB621	ML621 / SR621	Surface mount x 2	0.1	10

NOTE

Be careful not to damage the holder when removing the battery without tools. Recommended to use a fine tipped stick or a flat head screwdriver to remove the battery.

How to replace a coin cell.



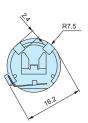
PD SERIES

BUTTON BATTERY HOLDER



Technical Data

Operating temperature: -40 $^{\circ}$ C \sim +80 $^{\circ}$ C

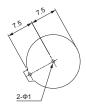


1.2



Installation hole layout

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



Components

Holder material	Holder material Holder color		Contact finish
PBT (UL94V-0)	Black	Phosphor bronze	Sn plated

NOTE

Insert battery fully in until it is completely flat, otherwise there may be a risk of short-circuiting.

Product no. / Feature

Product no.	Matching battery	Contact type	Weight (g)	Pack of
PD23	LR44 / SR44	Through hole pin x 2	0.7	1
PD23-T	LR44 / SR44	Through hole pin x 2	-	100

Accessories (Optional parts)

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

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

TORX SCREW













Self-tapping torx screws for securing of the enclosure.

 \bigstar : MR1.6-6S, MR2.6-10 \square , MR3-5Z \square and MR3-14 \square are

Product no / Details

Product no. / Details ★Mark = Without p								Without pin
Product no.	М	L	Head no.	Head style	Material	Finish	Suitable models	Pack of
MR1.6-6S★	1.6	6	Т3	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	Т8	Flat	Steel	Black trivalent chromate	TWF (M2.6 size) MX • MXA • MXB • MXF (M2.6 size)	20
MR2.6-12PS	2.6	12	Т8	Pan	Steel	Nickel plated	LCT • LCS • LC115-F2 / F3 LCT • LCS • LC145S-F6	20
MR2.6-14PS	2.6	14	Т8	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	Т8	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
MR2.6-18S	2.6	18	Т8	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 LCT • LCS • LC165H-N / M4	20
MR-1S	3	5	T10	Flat	Steel	Nickel plated		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