

# SN•MP-PC SERIES

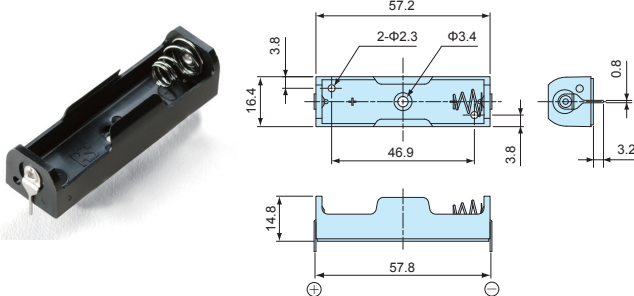
# BATTERY HOLDER with THROUGH HOLE PIN

### Technical Data

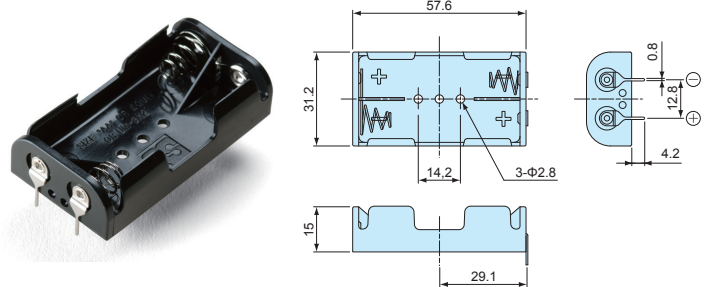
Operating temperature (PP Material) : -10°C ~ +60°C  
 Operating temperature (PE Material) : -10°C ~ +50°C  
 Operating temperature (ABS Material) : -10°C ~ +60°C

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

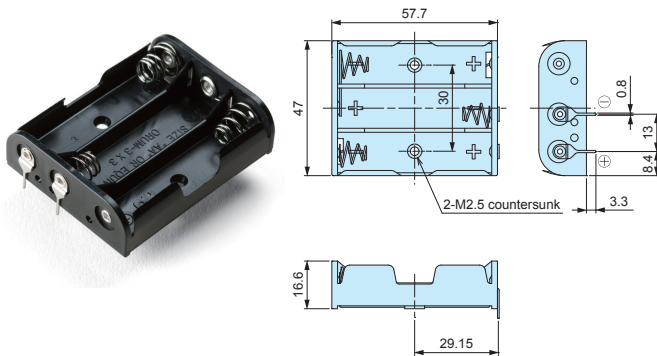
SN 3-1PC AA x 1



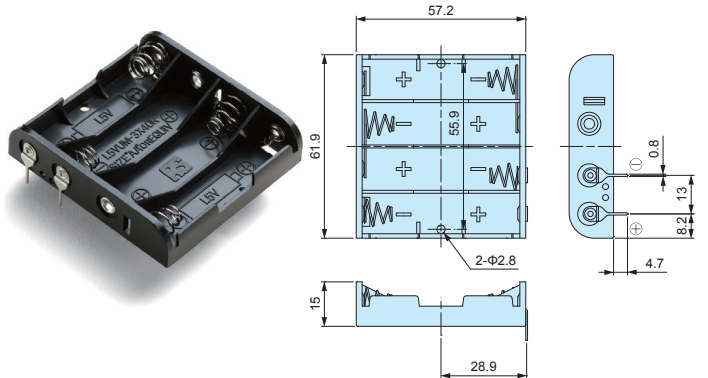
SN 3-2PC AA x 2



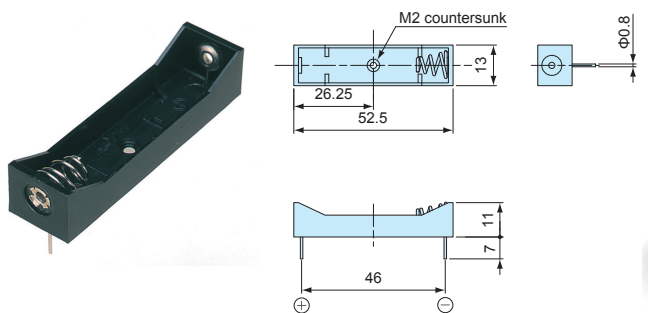
SN 3-3PC ※ AA x 3



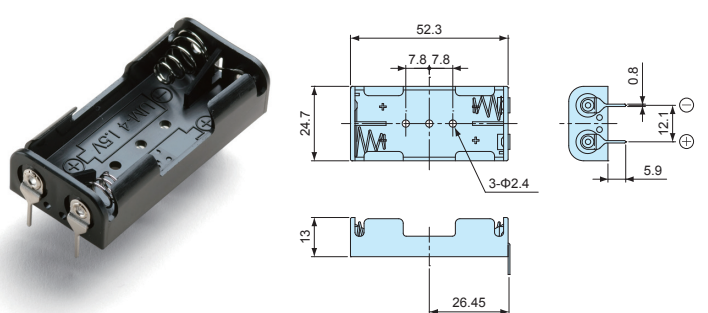
SN 3-4PC ※ AA x 4



MP-4-1PC AAA x 1



SN 4-2PC AAA x 2



※ A steel wire may protrude out from the underside of SN3-3PC and SN3-4PC.  
 Insulation processing is required for installation on conductive material.

### Components

Holder material	Holder color	Spring / Finish	Battery contact / Finish	Through-hole pin / Finish
PP, PE or ABS	Black	Steel / Nickel plated	Brass / Nickel plated	Steel / Nickel plated • Copper / Sn plated

### Product no. / Feature

Product no.	Matching battery	Holder material	Weight (g)	Pack of
SN 3-1PC	AA x 1	PP	3.6	1
SN 3-2PC	AA x 2	PE	7.0	1
SN 3-3PC	AA x 3	PP	9.4	1
SN 3-4PC	AA x 4	PP	11.5	1
MP-4-1PC	AAA x 1	ABS	2.5	1
SN 4-2PC	AAA x 2	PP	4.5	1

Product no.	Pack of
SN3-1PC-P	50
SN3-2PC-P	50
SN3-3PC-P	50
SN3-4PC-P	50
-	-
SN4-2PC-P	50

■ 50 pcs bulk package is available. (Not for MP-4-1PC)

# SN•MP•BH211 SERIES

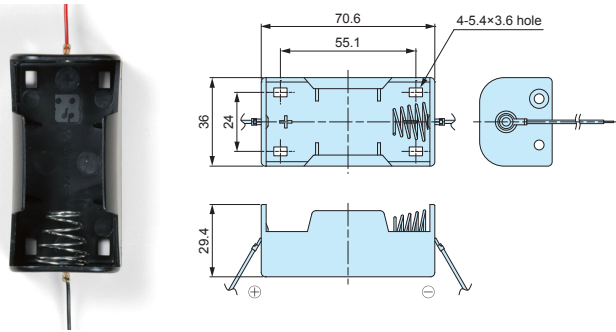
# BATTERY HOLDER with LEAD WIRE

**Technical Data**

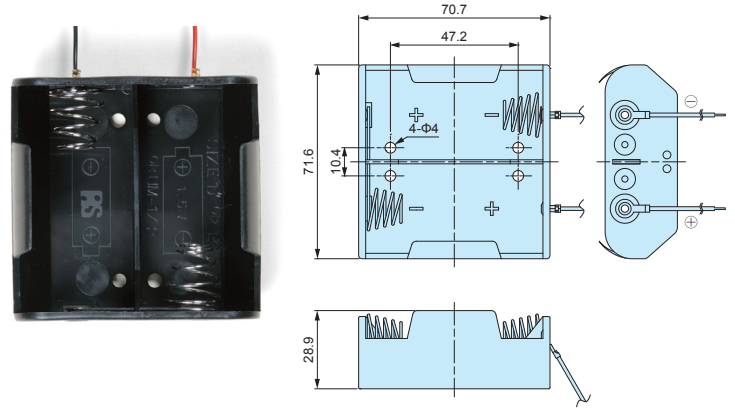
Operating temperature (PP Material) : -10°C ~ +60°C  
 Operating temperature (PE Material) : -10°C ~ +50°C  
 Operating temperature (ABS Material) : -10°C ~ +60°C

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

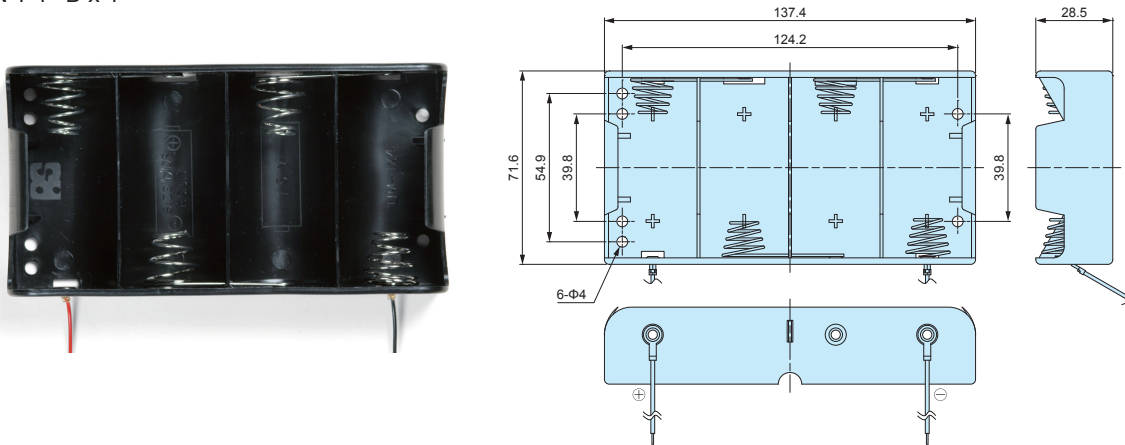
SN 1-1 D x 1



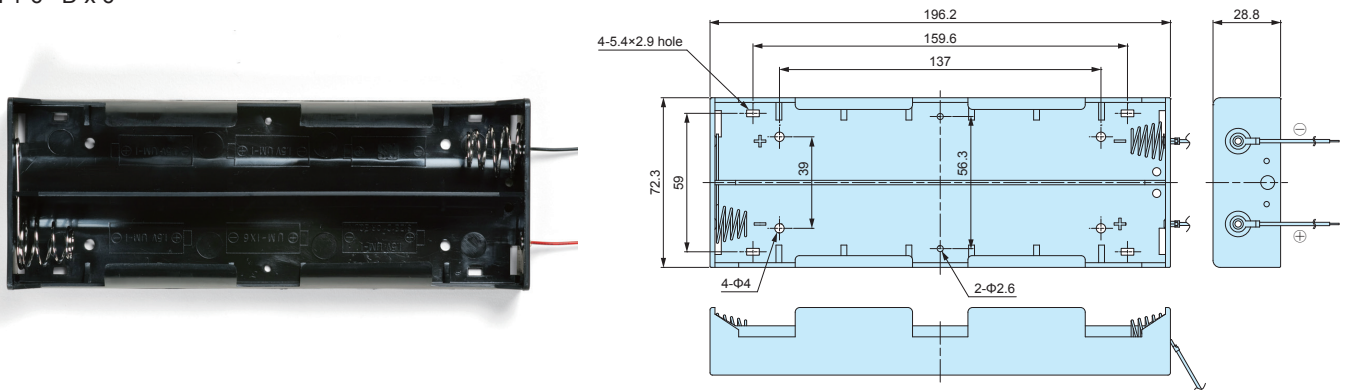
SN 1-2 D x 2



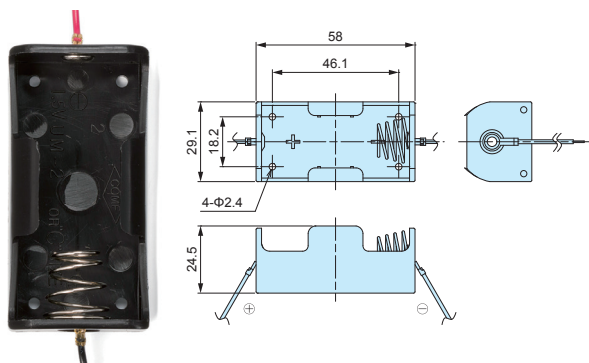
SN 1-4 D x 4



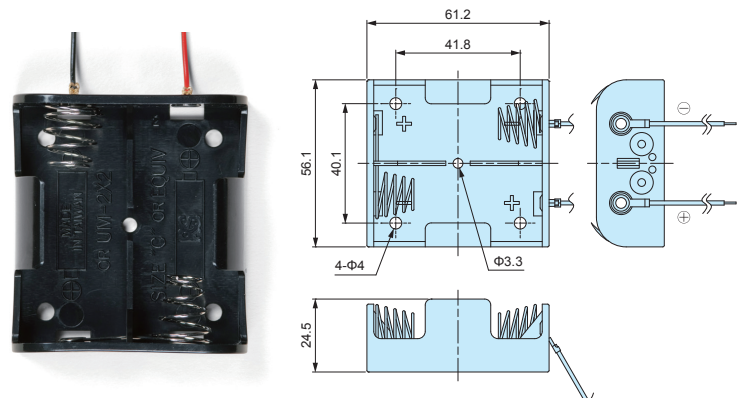
SN 1-6 D x 6



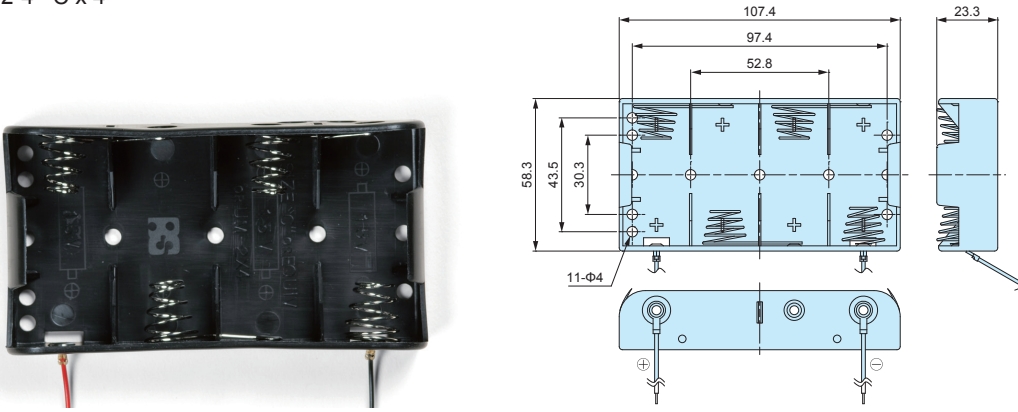
BH211-1 C x 1



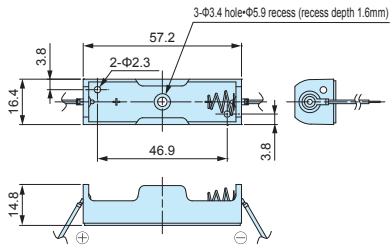
SN 2-2 C x 2



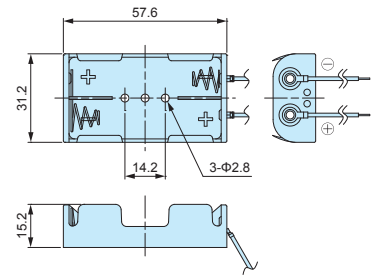
SN 2-4 C x 4



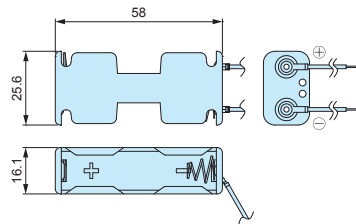
SN 3-1 AA x 1



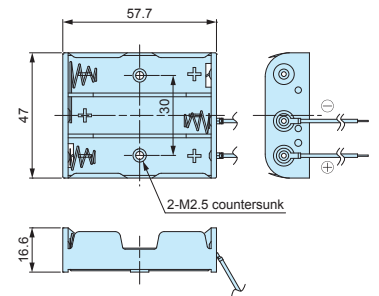
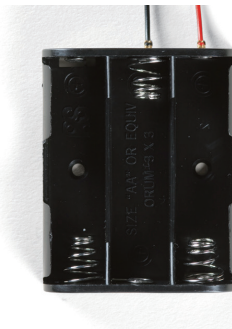
SN 3-2 AA x 2



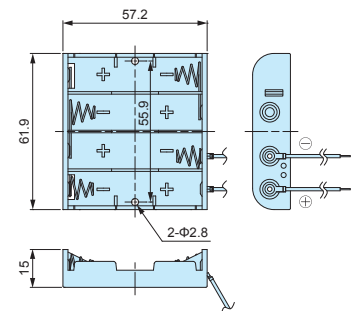
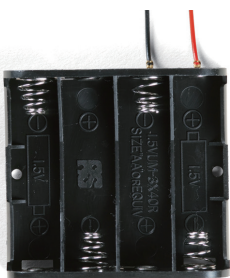
SN 3-2A AA x 2



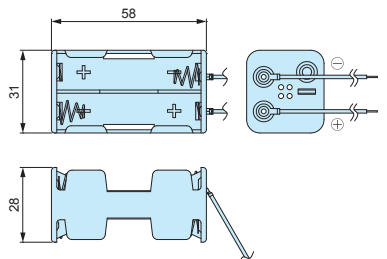
SN 3-3 ※ AA x 3



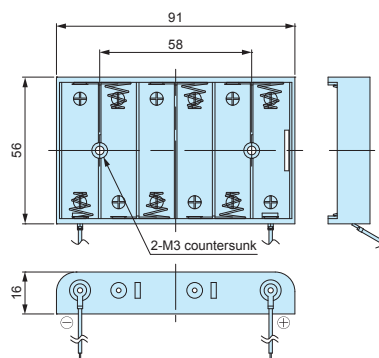
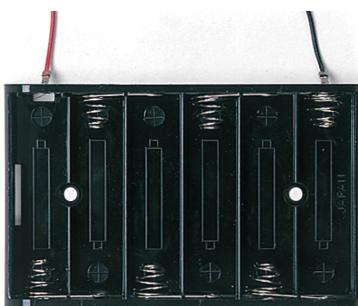
SN 3-4 ※ AA x 4



SN 3-4A ※ AA x 4

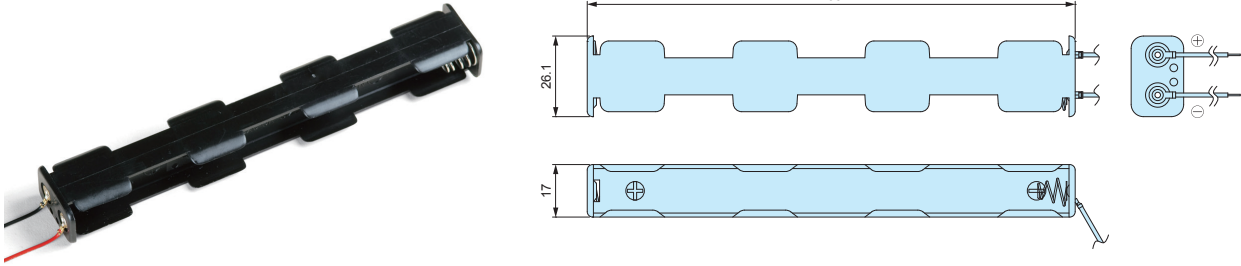


MP-3-6 AA x 6

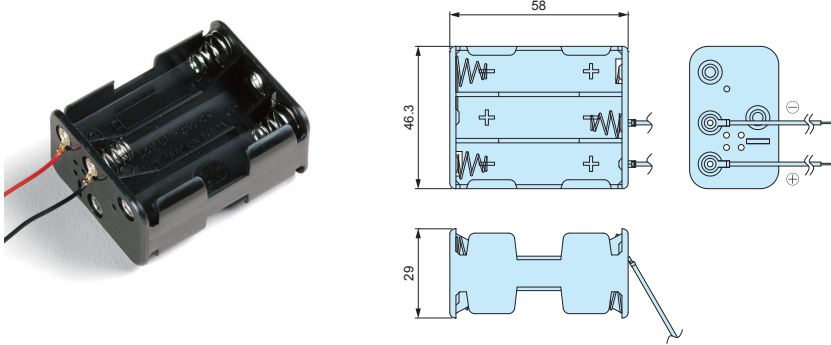


※ A steel wire may protrude out from the underside of SN3-3 and SN3-4. Insulation processing is required for installation on conductive material.

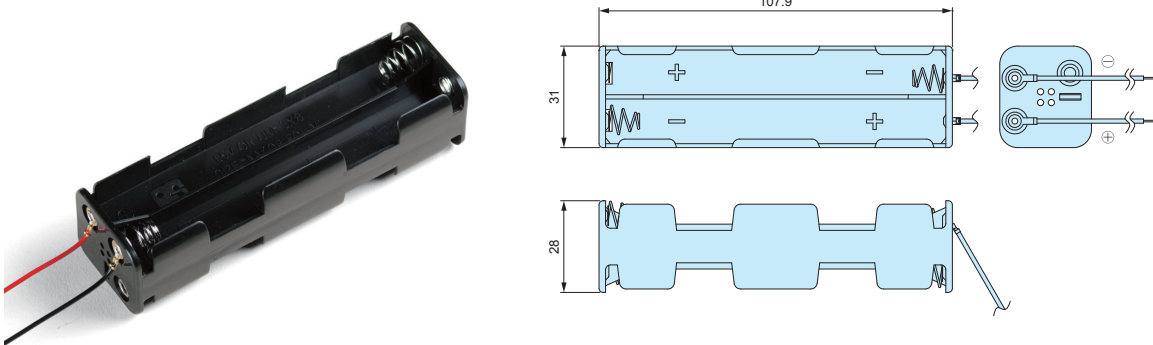
SN 3-6A AA x 6



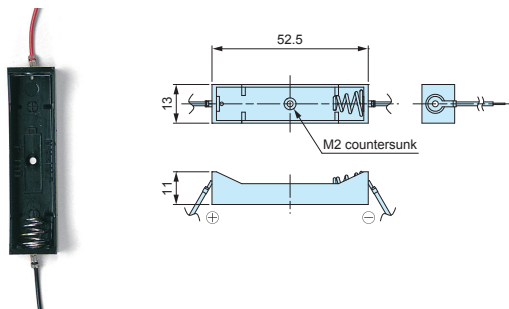
SN 3-6B AA x 6



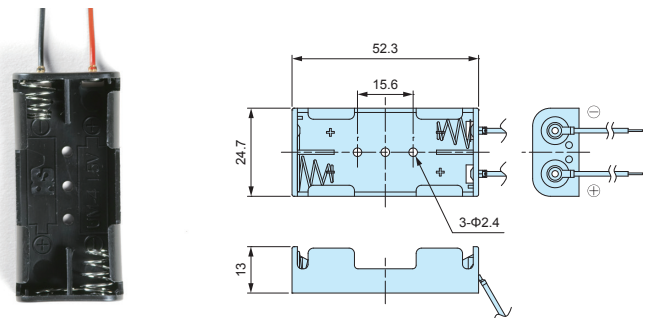
SN 3-8A AA x 8



MP-4-1 AAA x 1



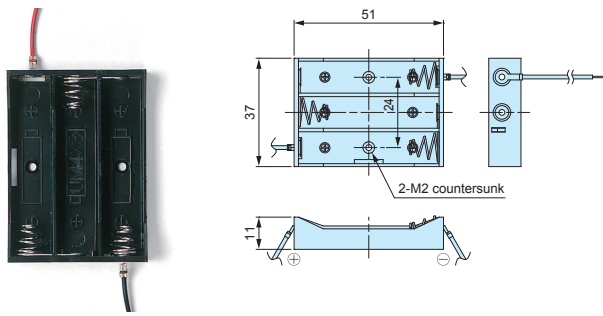
SN 4-2 AAA x 2



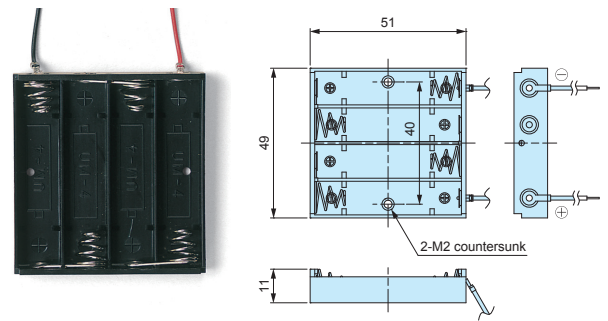


■ DXF/DWG/PDF drawings available on our website.

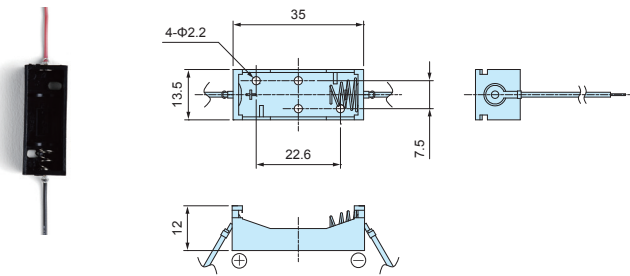
MP-4-3 AAA x 3



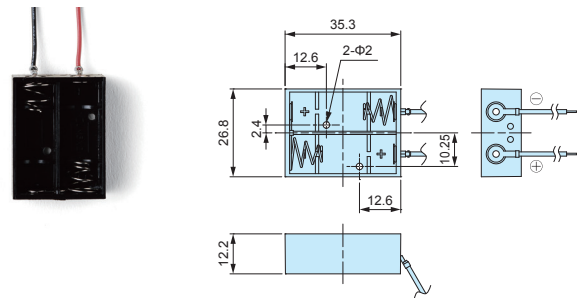
MP-4-4 AAA x 4



MP-5-1N N x 1



MP-5-2 N x 2



**Components**

Holder material	Holder color	Spring / Finish	Battery contact / Finish	Wire material
PP • PE • ABS	Black	Steel wire / Nickel plated	Brass / Nickel plated	AWG24 • AWG26 (UL1007)

**Product no. / Feature**

Product no.	Matching battery	Holder material	Lead wire	Weight (g)	Pack of	Product no.	Pack of
SN 1-1	D x 1	PP	AWG26 L=170	14.0	1	SN1-1-P	50
SN 1-2	D x 2	PP	AWG26 L=170	22.8	1	SN1-2-P	20
SN 1-4	D x 4	PP	AWG26 L=170	43.0	1	SN1-4-P	20
SN 1-6	D x 6	PP	AWG26 L=170	52.7	1	SN1-6-P	20
BH211-1	C x 1	PP	AWG24 L=150	9.3	1	BH211-1-P	50
SN 2-2	C x 2	PP	AWG26 L=170	16.5	1	SN2-2-P	50
SN 2-4	C x 4	PP	AWG26 L=170	26.0	1	SN2-4-P	50
SN 3-1	AA x 1	PP	AWG26 L=160	4.4	1	SN3-1-P	50
SN 3-2	AA x 2	PE	AWG26 L=160	7.8	1	SN3-2-P	50
SN 3-2A	AA x 2	PP	AWG26 L=160	6.2	1	SN3-2A-P	50
SN 3-3	AA x 3	PP	AWG26 L=160	10.2	1	SN3-3-P	50
SN 3-4	AA x 4	PP	AWG26 L=160	12.1	1	SN3-4-P	50
SN 3-4A	AA x 4	PP	AWG26 L=160	9.8	1	SN3-4A-P	50
MP-3-6	AA x 6	ABS	AWG26 L=150	21.4	1	—	—
SN 3-6A	AA x 6	PP	AWG26 L=160	12.9	1	SN3-6A-P	50
SN 3-6B	AA x 6	PP	AWG26 L=160	15.3	1	SN3-6B-P	50
SN 3-8A	AA x 8	PP	AWG26 L=160	14.8	1	SN3-8A-P	50
MP-4-1	AAA x 1	ABS	AWG26 L=150	3.3	1	—	—
SN 4-2	AAA x 2	PP	AWG26 L=160	5.1	1	SN4-2-P	50
MP-4-3	AAA x 3	ABS	AWG26 L=150	6.9	1	—	—
MP-4-4	AAA x 4	ABS	AWG26 L=150	8.0	1	—	—
MP-5-1N	N x 1	ABS	AWG26 L=150	2.6	1	—	—
MP-5-2	N x 2	ABS	AWG26 L=150	4.7	1	—	—

■ Bulk package (pack of 50pcs) is available. (Not for MP-3-6, MP-4-1, MP-4-3, MP-4-4, MP-5-1N, and MP-5-2 models)

**Matching Chart (Battery Box : Battery Holder)**

Box product no.	Holder product no.
MD-006P	MP-4-1 • SN4-2
LD-006P	MP-4-1 • SN4-2
LDN-006P	MP-4-1 • SN4-2

# SN-S SERIES

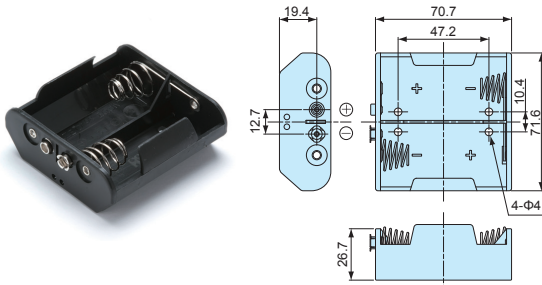
# BATTERY HOLDER with SNAP TERMINAL

### Technical Data

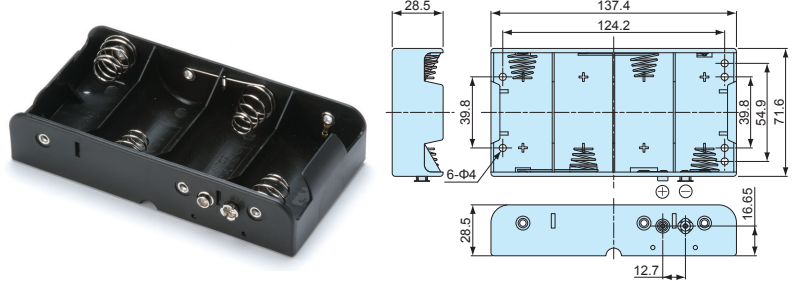
Operating temperature (PP Material) : -10°C ~ +60°C  
 Operating temperature (PE Material) : -10°C ~ +50°C

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

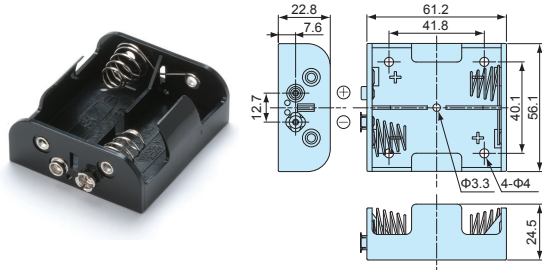
SN 1-2 S D x 2



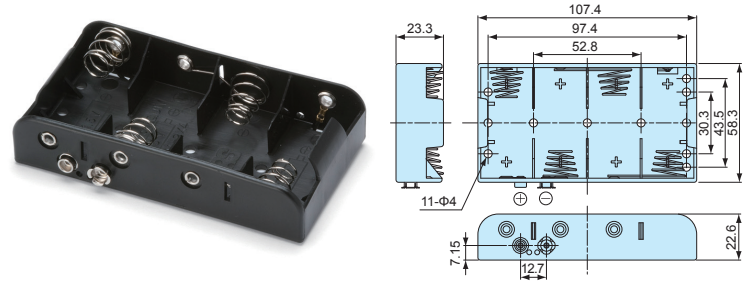
SN 1-4 S D x 4



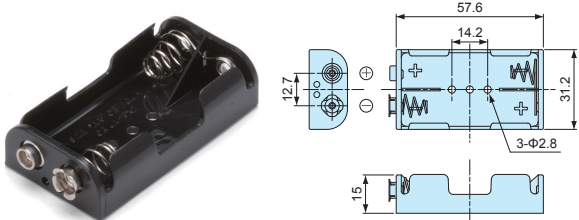
SN 2-2 S C x 2



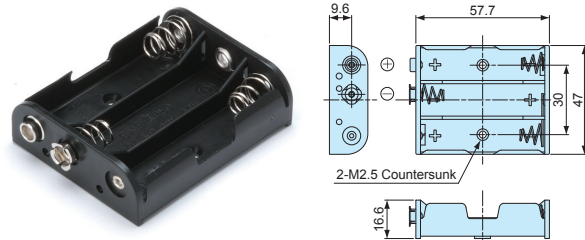
SN 2-4 S C x 4



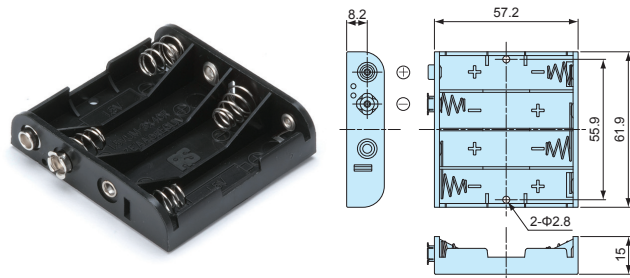
SN 3-2 S AA x 2



SN 3-3 S ※ AA x 3

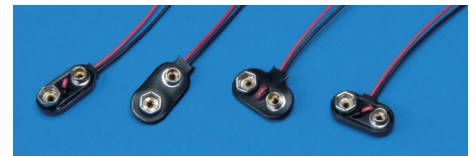


SN 3-4 S ※ AA x 4



※ A steel wire may protrude out from the underside of SN3-3S and SN3-4S. Insulation processing is required for installation on conductive material.

■ Recommended to be used with MP battery snap (see page MP-1)



### Components

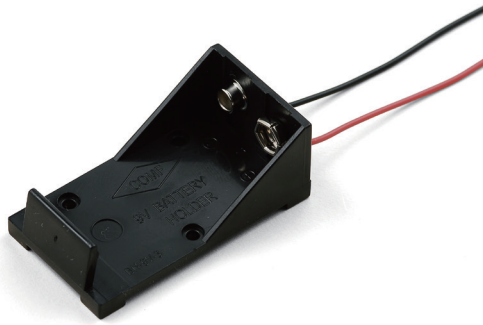
Holder material	Holder color	Spring / Finish	Battery contact / Finish
PP or PE	Black	Steel / Nickel plated	Brass / Nickel plated

### Product no. / Feature

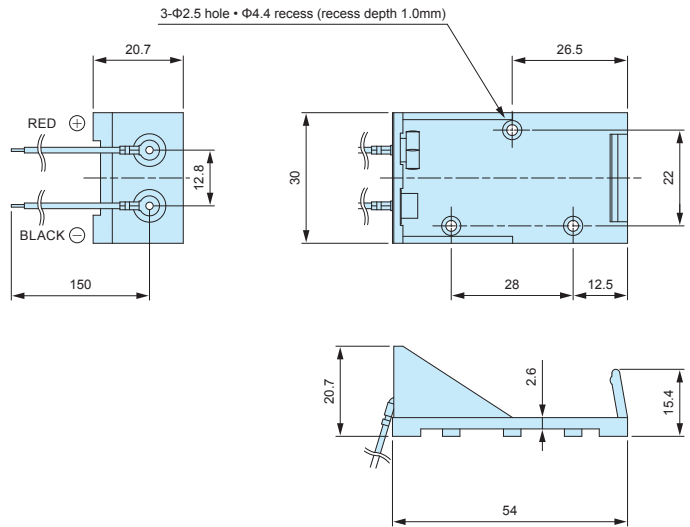
Product no.	Matching battery	Holder material	Weight (g)	Pack of
SN 1-2 S	D x 2	PP	22.7	1
SN 1-4 S	D x 4	PP	43.6	1
SN 2-2 S	C x 2	PP	16.5	1
SN 2-4 S	C x 4	PP	26.0	1
SN 3-2 S	AA x 2	PE	7.2	1
SN 3-3 S	AA x 3	PP	9.6	1
SN 3-4 S	AA x 4	PP	11.8	1

**BH-9V-3A**

**9V BATTERY HOLDER with LEAD WIRE**



DXF/DWG/PDF drawings available on our website.



**Technical Data**

Operating temperature: -10°C ~ +60°C

**Components**

Holder material	Holder color	Lead wire	Contact material	Contact surface finish
ABS	Black	UL1007 AWG26 L=150	Brass	Nickel plated

**Product no. / Feature**

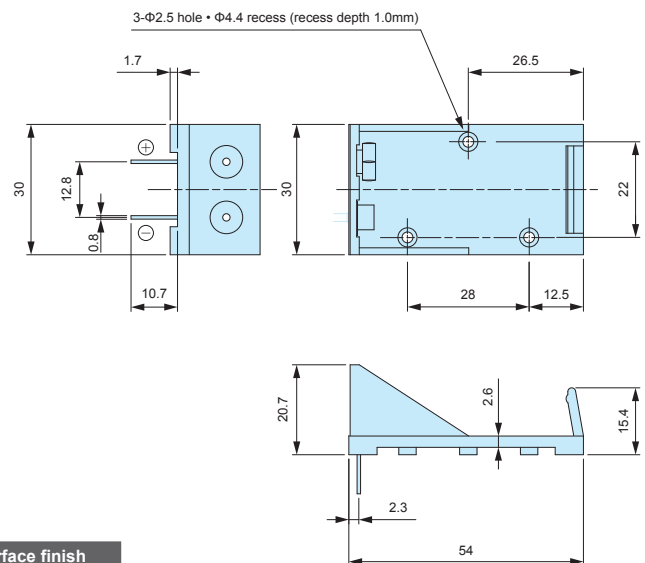
Product no.	Battery	Weight (g)
BH-9V-3A	9V x 1	8

**BH-9V-3P**

**9V BATTERY HOLDER with THROUGH HOLE PIN**



DXF/DWG/PDF drawings available on our website.



Through hole pin for installation on PCB.

**Technical Data**

Operating temperature: -10°C ~ +60°C

**Components**

Holder material	Holder color	Contact material	Contact surface finish
ABS	Black	Brass	Nickel plated

**Product no. / Feature**

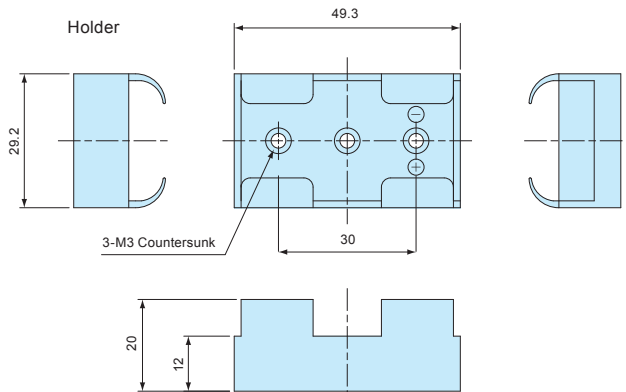
Product no.	Battery	Weight (g)
BH-9V-3P	9V x 1	7

**BH-9V-2**

**9V BATTERY HOLDER**

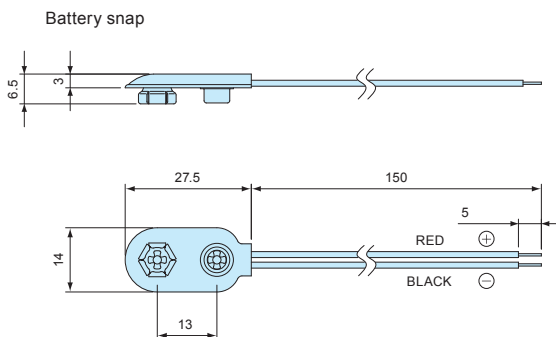


■ DXF/DWG/PDF drawings available on our website.



- 9V battery holder
- Battery snap comes with holder.

Technical Data
Operating temperature: -10°C ~ +60°C



**Components**

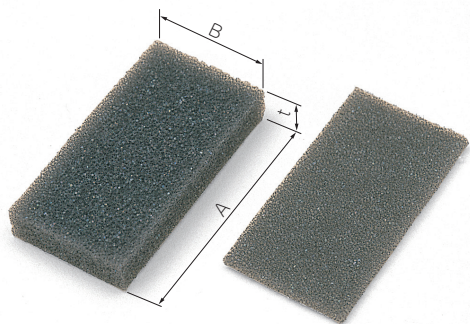
Holder material	Holder color	Lead wire	Contact material	Battery snap cover	Contact surface finish
PP	Black	UL1007 AWG26 L=150	Brass	PVC	Nickel plated

**Product no. / Feature**

Product no.	Battery	Battery snap (included)	Weight (g)	Pack of
BH-9V-2	9V x 1	MP-1SN	6.8	1

**SCM SERIES**

**BATTERY CUSHION SPONGE**



- Flame resistant moltoprene sponge with adhesive on the back side.
- Use to prevent battery from rattling inside the holder.

■ Material : Moltoprene (UL94HF-1)

**Suitable battery holder**

Product no.	Suitable battery holder
SCM-1	MD-2, MD-4, MD-006P, LD-2, LD-3, LD-4, LDN-2, LDN-3, LDN-4
SCM-2	LD-006P, LDN-006P
SCM-3	MD-006P

**Product no. / Dimensions**

Product no.	A	B	t	Pack of
SCM-1	50	25	2	10
SCM-2	50	25	4	10
SCM-3	50	25	7.5	10



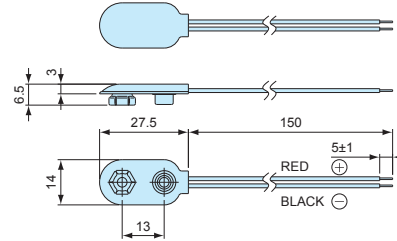
# MP SERIES

# BATTERY SNAP

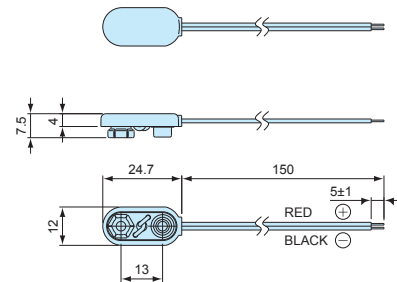
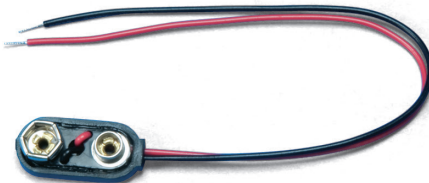
■ Battery snap with crimp terminal.

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

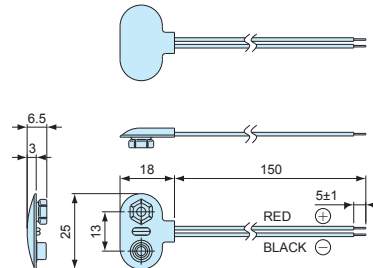
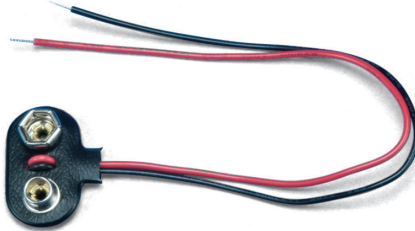
MP-1SN



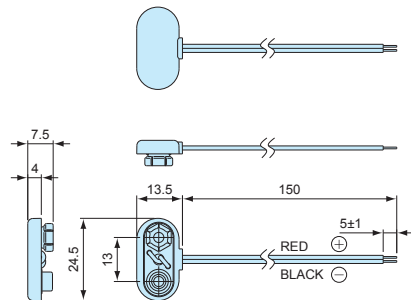
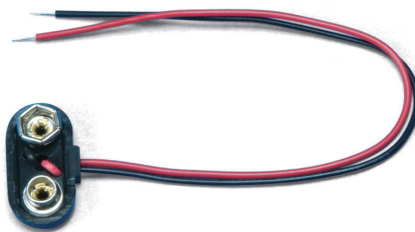
MP-1LN



MP-TSN



MP-TLN



### Components

Wire material	Cover material	Battery contact / Finish
UL1007 AWG26 (L=150)	PVC • ABS	Brass / Nickel plated

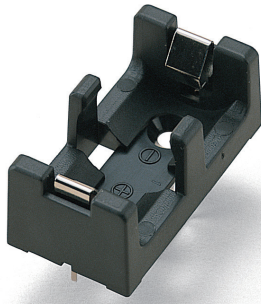
### Product no. / Feature

Product no.	Cover material	Matching battery	Weight g)	Pack of
MP-1SN	PVC	9V x 1	2.1	10
MP-1LN	ABS	9V x 1	2.5	10
MP-TSN	PVC	9V x 1	2.1	10
MP-TLN	ABS	9V x 1	2.5	10

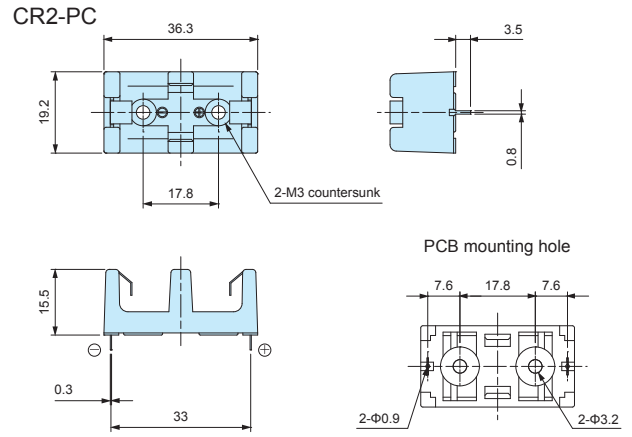
CR2•CR123A-PC SERIES

LITHIUM BATTERY HOLDER

DXF/DWG/PDF drawings available on our website.



Technical Data
Operating temperature: -10°C ~ +60°C

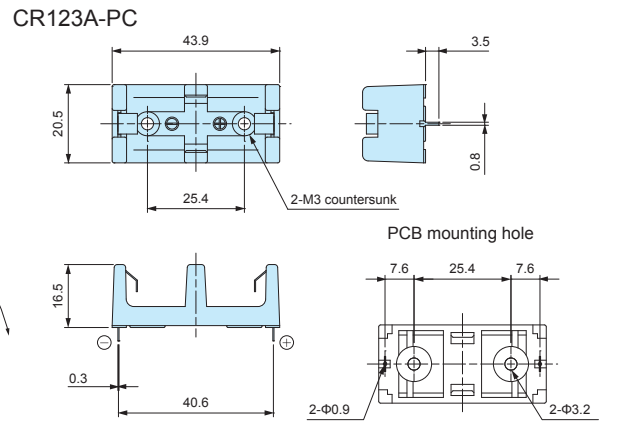


Components

Holder material	Holder color	Contact material	Contact finish
ABS UL94V-0	Black	Phosphor bronze	Nickel plated

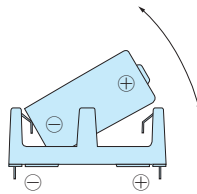
Product no. / Feature

Product no.	Battery	Mounting	Weight (g)
CR2-PC	CR2×1	Through-hole mount pin x 2	4.3
CR123A-PC	CR123A×1	Through-hole mount pin x 2	5.0



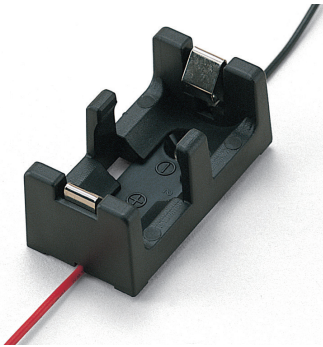
Caution

Please remove the battery from the positive (+) side. Removing it from the negative (-) side may damage the battery or the battery contacts.

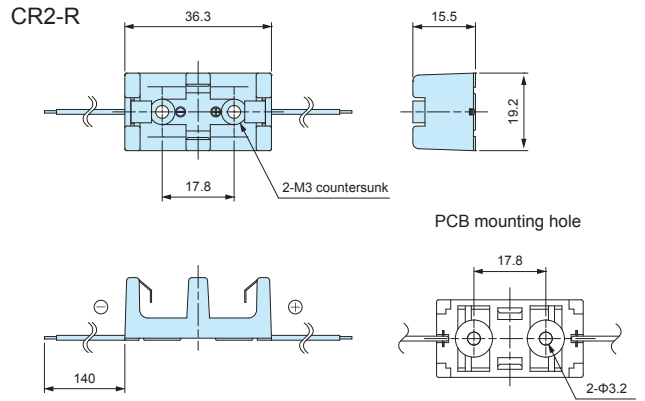


CR2•CR123A-R SERIES

LITHIUM BATTERY HOLDER with LEAD WIRE



Technical Data
Operating temperature: -10°C ~ +60°C

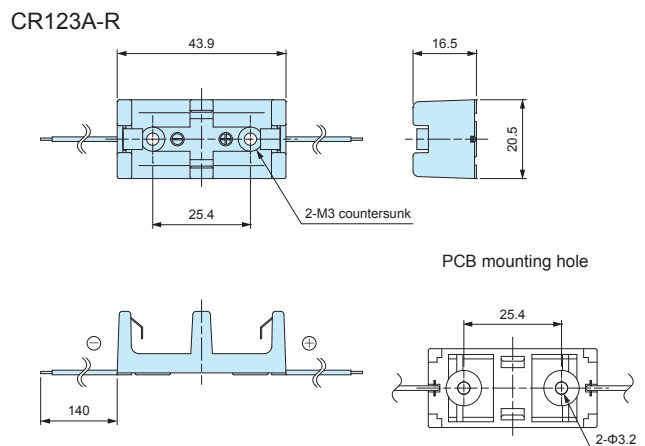


Components

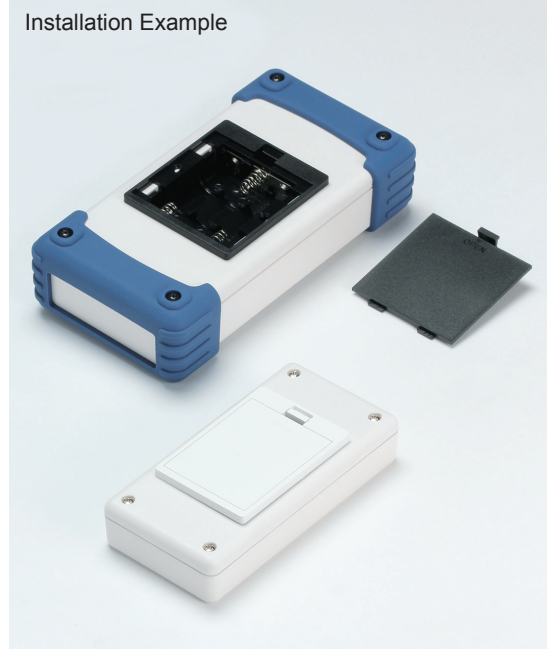
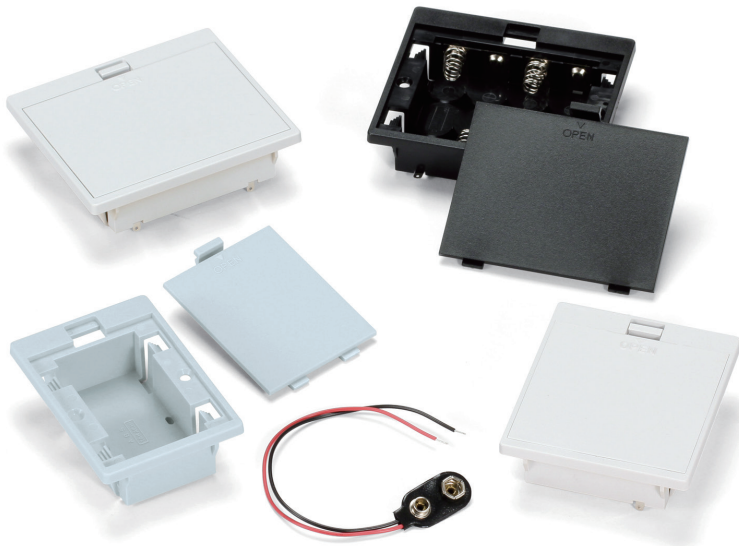
Holder material	Holder color	Contact material	Contact finish
ABS UL94V-0	Black	Phosphor bronze	Nickel plated

Product no. / Feature

Product no.	Battery	Lead wire	Weight (g)
CR2-R	CR2×1	UL1007 AWG26 L=140	5.3
CR123A-R	CR123A×1	UL1007 AWG26 L=140	6.0

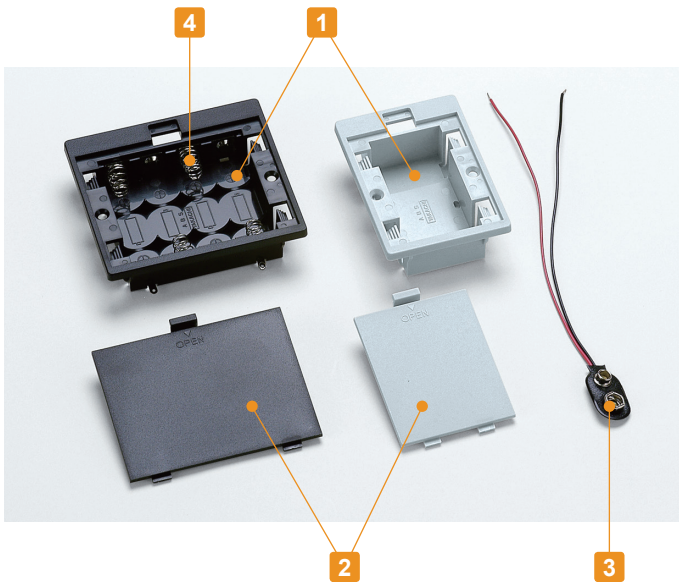


DXF/DWG/PDF drawings available on our website.



Technical Data
Operating temperature: -10°C ~ +60°C

- Snap-in battery box for enclosures.
- Suitable to be installed into enclosures with a panel thickness of 1.0mm to 3.0mm.
- Screw mounting is also possible with built-in M3 countersunk holes.
- ⊕ ⊖ markings are available to avoid incorrect placement of the battery.
- LD-006P box can be used with battery holder (see page SN • MP • BH211-1 ~ SN • MP • BH211-4).
- Battery dimensions may vary depending on country and brand.  
Use optional battery cushion sponge to preventing rattling.



Accessories (Optional parts)



Battery cushion sponge SCM series  
See page BH9V-2 • SCM-1

Components (LD-006P models)

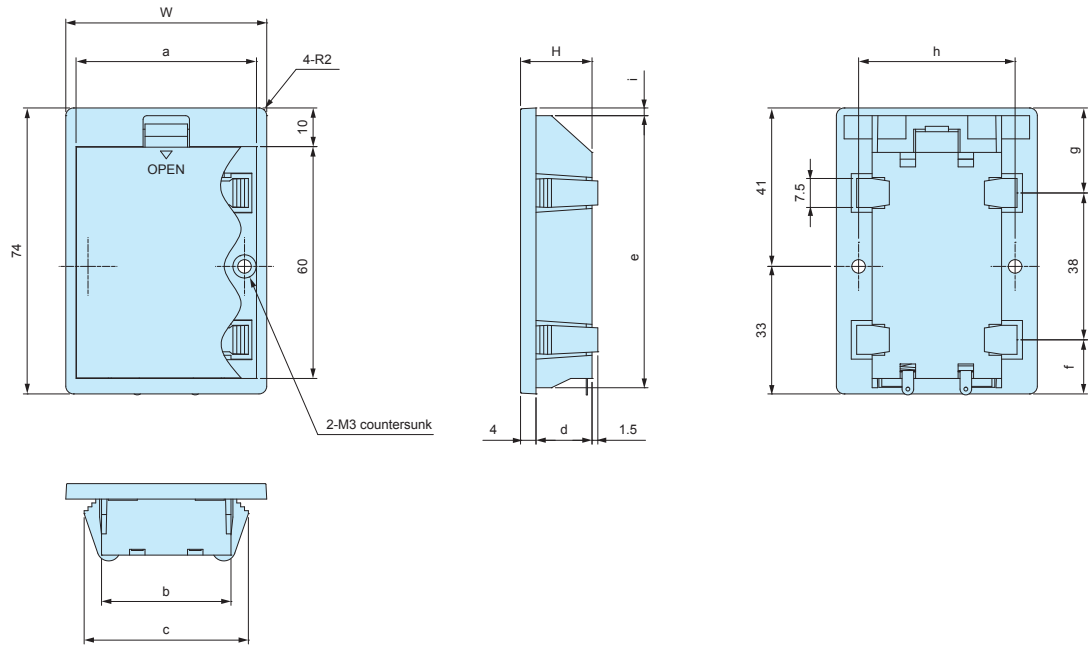
No.	Part name	Material	Color
1	Box	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
2	Cover	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
-	Battery snap (MP-ISN)	PVC + Copper wire (UL1007 AWG26)	Black • Red/Black

Components (LD-2 • LD-3 • LD-4 models)

No.	Part name	Material	Color
1	Box	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
2	Cover	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
3	Battery contact (IT-3 models)	Brass t = 0.3 • Steel wire Φ0.6	Nickel plated

**LD dimensions**

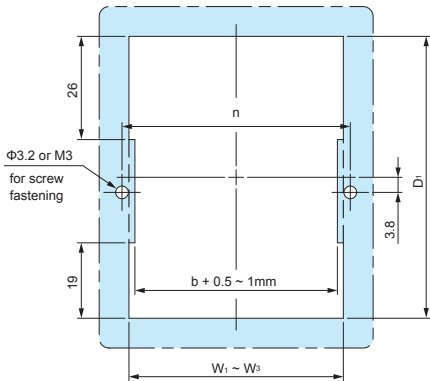
- DXF/DWG/PDF drawings available on our website.
- Battery contact position vary by models.
- See page MP-1 for the details of battery snap.



Product no.	W	H	a	b	c	d	e	f	g	h	i
LD-006P□	52	21.5	46.7	33.5	42.5	17.5	70.4	14	22	40.5	2
LD-2□	52	18.5	46.7	33.5	42.5	14.5	70.4	14	22	40.5	2
LD-3□	64.5	18.5	60.5	48	56.5	14.5	70.2	14.25	21.75	53	2.1
LD-4□	82	18.5	77	63.5	72.5	14.5	70.4	14	22	70.1	2

**Mounting hole**

※Snap-in mounting hole required would be  $D_1 \times W_1 \sim W_3$ .



**Hole dimensions**

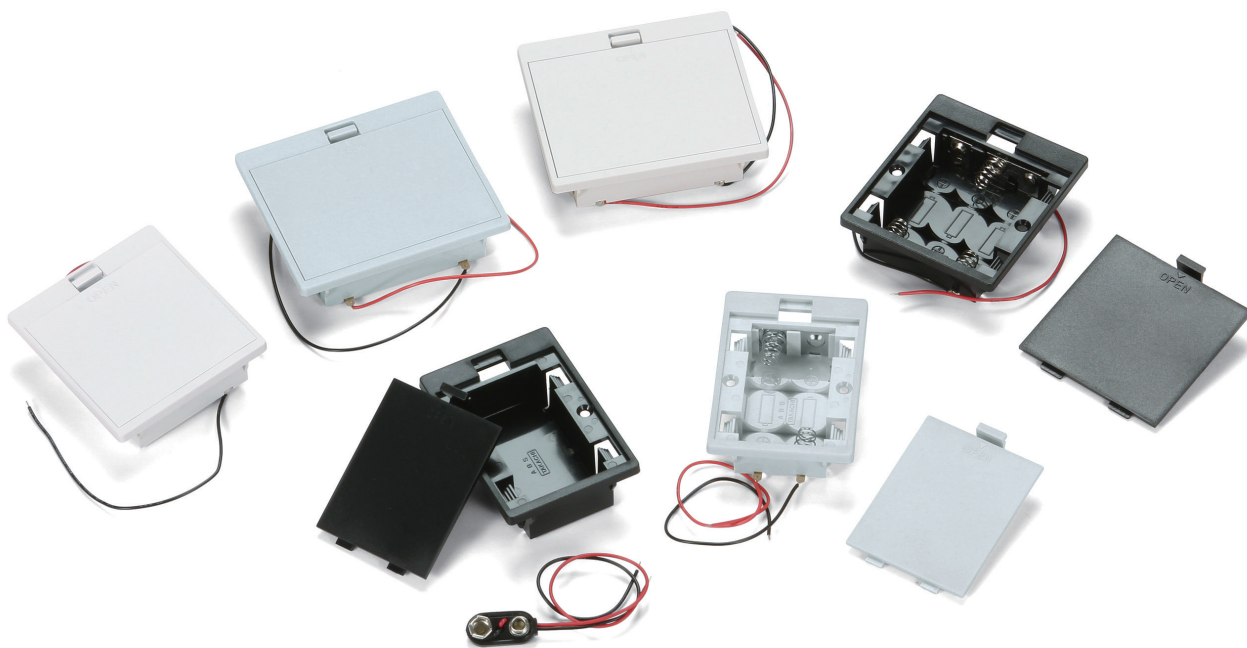
Product no.	W1 (thickness t = 1.0)	W2 (thickness t = 2.0)	W3 (thickness t = 3.0)	$D_1$	n
LD-006P□ • LD-2□	36.5	38.5	40.5	70.6	40.5
LD-3□	51	52.5	54	70.4	53
LD-4□	66.5	68.5	70.5	70.6	70.1

- $W_1 \sim W_3$  values differ depending on panel thickness; see above table to determine required dimension.
- For mounting on panel thickness not listed above, please confirm before proceeding.

**Product no. / Feature**

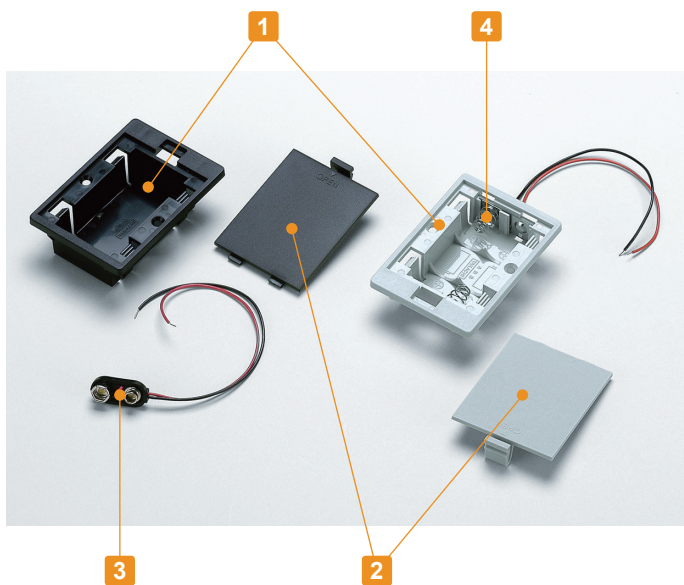
Product no.			Matching battery	Weight (g)	Suitable cushion sponge
ABS	PC+ABS				
● Black	● Light gray	● White			
LD-006PB	LD-006PG	LD-006PW	9V x 1	24	SCM-2
LD-2B	LD-2G	LD-2W	AA x 2	24	SCM-1
LD-3B	LD-3G	LD-3W	AA x 3	26	SCM-1
LD-4B	LD-4G	LD-4W	AA x 4	35	SCM-1



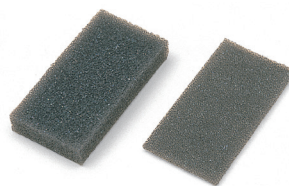


Technical Data
Operating temperature: -10°C ~ +60°C

- Snap-in battery box for enclosures.
- Suitable to be installed into enclosures with a panel thickness of 1.0mm to 3.0mm.
- Screw mounting is also possible with built-in M3 countersunk holes.
- Lead-free soldered lead wire (UL certified  $\ell = 140\text{mm}$ ).
- $\oplus$   $\ominus$  markings are available to avoid incorrect placement of the battery.
- LDN-006P box can be used with battery holder (see page SN • MP • BH211-1 ~ SN • MP • BH211-4).
- Battery dimensions may vary depending on country and brand. Use optional battery cushion sponge to preventing rattling.



**Accessories (Optional parts)**



Battery cushion sponge SCM series  
See page BH9V-2 • SCM-1

**Components (LD-006P models)**

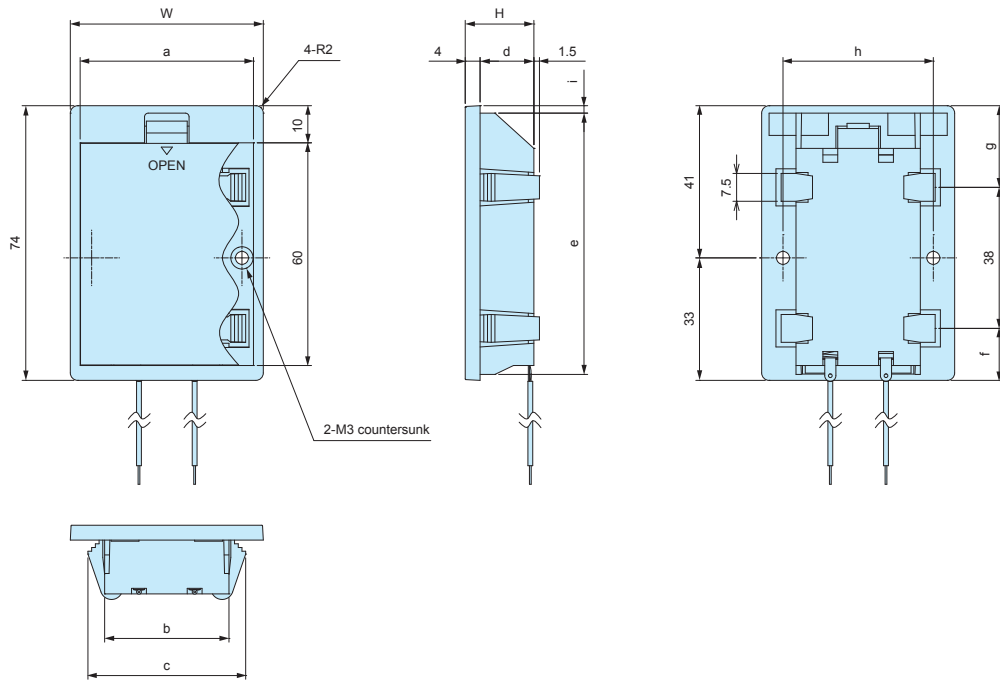
No.	Part name	Material	Color
1	Box	ABS UL94HB • PC+ABS (UL94V-0)	Black • Light gray • White
2	Cover	ABS UL94HB • PC+ABS (UL94V-0)	Black • Light gray • White
3	Battery snap (MP-ILN)	ABS UL94HB • PVC + Copper wire (UL1007 AWG26)	Black • Red/Black

**Components (LD-2 • LD-3 • LD-4 models)**

No.	Part name	Material	Color
1	Box	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
2	Cover	ABS (UL94HB) • PC+ABS (UL94V-0)	Black • Light gray • White
4	Battery contact (IT-3 models)	Brass $t = 0.3$ • Steel wire $\Phi 0.6$	Nickel plated
-	Lead wire	PVC + Copper wire $L = 140\text{mm}$ (UL1007 AWG26)	Red • Black

**LDN dimensions**

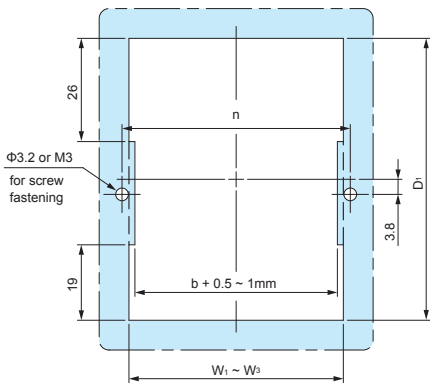
- DXF/DWG/PDF drawings available on our website.
- Lead wire • battery contact position vary by models.
- See page MP-1 for the details of battery snap.



Product no.	W	H	a	b	c	d	e	f	g	h	i
LDN-006P□	52	21.5	46.7	33.5	42.5	17.5	70.4	14	22	40.5	2
LDN-2□	52	18.5	46.7	33.5	42.5	14.5	70.4	14	22	40.5	2
LDN-3□	64.5	18.5	60.5	48	56.5	14.5	70.2	14.25	21.75	53	2.1
LDN-4□	82	18.5	77	63.5	72.5	14.5	70.4	14	22	70.1	2

**Mounting hole**

※Snap-in mounting hole required would be D<sub>1</sub> x W<sub>1</sub> ~ W<sub>3</sub>



**Hole dimensions**

Product no.	W1 (thickness t = 1.0)	W2 (thickness t = 2.0)	W3 (thickness t = 3.0)	D <sub>1</sub>	n
LDN-006P□ • LDN-2□	36.5	38.5	40.5	70.6	40.5
LDN-3□	51	52.5	54	70.4	53
LDN-4□	66.5	68.5	70.5	70.6	70.1

- W<sub>1</sub> ~ W<sub>3</sub> values differ depending on panel thickness; see above table to determine required dimension.
- For mounting on panel thickness not listed above, please confirm before proceeding.

**Product no. / Feature**

Product no.			Matching battery	Weight (g)	Suitable cushion sponge
ABS	PC+ABS				
● Black	● Light gray	● White			
LDN-006PB	LDN-006PG	LDN-006PW	9V x 1	24	SCM-2
LDN-2B	LDN-2G	LDN-2W	AA x 2	24	SCM-1
LDN-3B	LDN-3G	LDN-3W	AA x 3	26	SCM-1
LDN-4B	LDN-4G	LDN-4W	AA x 4	35	SCM-1

# MD SERIES

# EXTERNAL BATTERY BOX

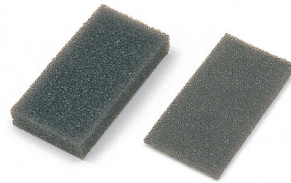


- External battery box.
  - Simple construction for easy opening and closing.
  - MD-006P box can be used with battery holder (see page SN • MP • BH211-1 ~ SN • MP • BH211-4).
  - ⊕ ⊖ markings are available to avoid incorrect placement of the battery.
  - Battery dimensions may vary depending on country and brand.
- Use optional battery cushion sponge to preventing rattling.

### Technical Data

Operating temperature: -10°C ~ +60°C

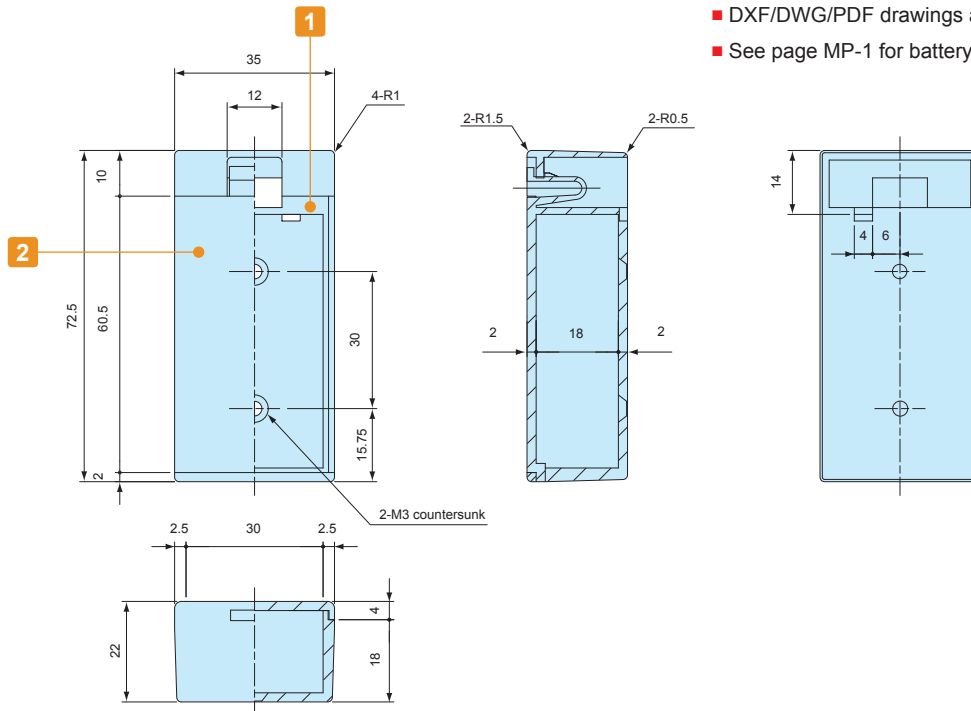
### Accessories (Optional parts)



Battery cushion sponge SCM series  
See page BH9V-2 • SCM-1

### MD dimensions

MD-006P



- DXF/DWG/PDF drawings available on our website.
- See page MP-1 for battery snap information.

### Components (MD-006P)

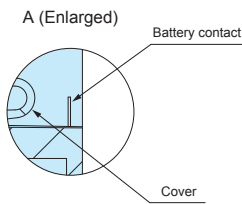
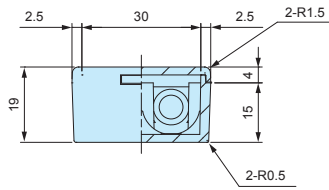
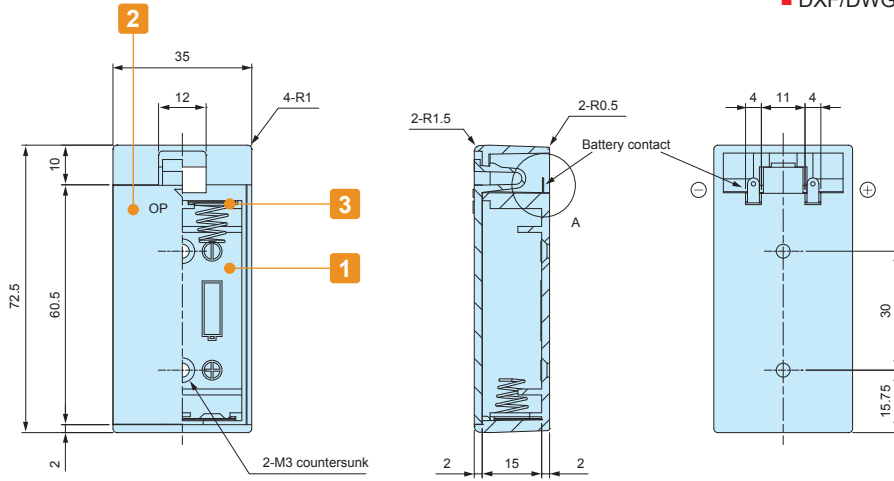
No.	Part name	Material	Color
1	Box	ABS UL94V-0	Black • Light gray
2	Cover	ABS UL94V-0	Black • Light gray
-	Battery snap (MP-ILN)	ABS UL94HB • PVC + Copper wire (UL1007 AWG26)	Black • Red/Black

### Components (MD-2 • MD-4)

No.	Part name	Material	Color
1	Box	ABS UL94V-0	Black • Light gray
2	Cover	ABS UL94V-0	Black • Light gray
3	Battery contact (IT-3 models)	Brass t = 0.3 • Steel wire Φ0.6	Nickel plated

MD-2

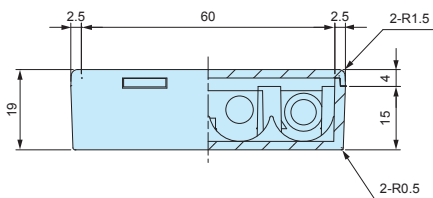
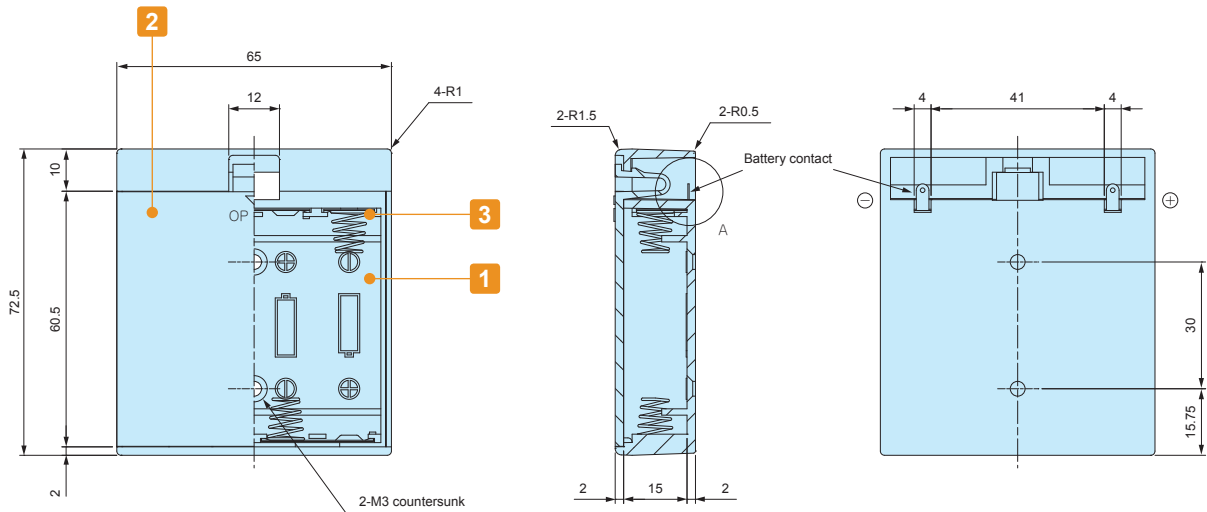
DXF/DWG/PDF drawings available on our website.



**Caution**

Remove cover when soldering to prevent it from being deformed by heat.

MD-4



Product no. / Feature

Product no.		Matching battery	Weight (g)	Suitable cushion sponge
● Black	● Light gray			
MD-006PB	MD-006PG	9V x 1	24	SCM-1
MD-2B	MD-2G	AA x 2	22	SCM-1
MD-4B	MD-4G	AA x 4	38	SCM-1