RUGGED BATTERY HOLDERS





An established design that has gained wide acceptance for commercial and military applications. Batteries are held under constant spring tension assuring low contact resistance. Retainer clips are available to lock batteries in place and prevent shifting or loosening. Refer to page 22. Recommended for use where shock or severe vibration is encountered. Special fabrication for more than four batteries or variations from standard stock parts can be assembled to meet your requirements.

SPECIFICATIONS:

Base: Stainless Steel, Phenolic, Aluminum Contacts: Brass, Nickel Plate Solder Lugs: Brass, Tin Plate

STEEL



FIG. 1 STEEL

ALUMINUM



FIG. 1 ALUMINUM



FIG. 2 STEEL, PHENOLIC BASE

FIG. 2 ALUMINUM

STEEL H	OLDERS			ALUMINUM HOLDERS						
ONE CONTACT Insulated	ALL CONTACTS Insulated	HOLDS No. of	FIG.	ALL CONTACTS Insulated						
CAT. NO.	CAT. NO.	CELLS	NO.	CAT. NO.						
"AAA" CELL										
_	_	1	1	137						
_	_	2	1	138						
_	_	3	1	169						
1	-	4	1	170						
"AA" CELL										
1139	2139	1	1	139						
1189	2189	2	1	140						
_	2140*	2	2	189						
1191	2191	3	1	171						
-	2171*	3	2	_						
1194	2194	4	1	182						
_	2182*	4	2	192						
_	_	6	2	193						
"C" CELL										
1173	2173	1	1	173						
1185	2185	2	1	174						
_	2174*	2	2	185						
1195	2195	3	1	187						
_	2187*	3	2	_						
1198	2198	4	1	_						
_	2188*	4	2	196						
_	_	6	2	197						
		" CELL								
1175	2175	1	1	175						
1186	2186	2	1	176						
_	2176*	2	2	186						
1199	2199	3	1	190						
	2190*	3	2	_						
1162	2162	4	1	_						
_	2192*	4	2	200						
_	_	6	2	201						
	"1/2 AA" l	LITHIUM CE	LL							
_	1102	1	1							

CONNECTED IN SERIES

Features pre-connected jumper strap insulated from the Alumimun base. Batteries held in series circuit without need of additional wiring.

SPECIFICATIONS:

Base: Aluminum Contacts: Brass, Nickel Plate Solder Lugs: Brass, Tin Plated Jumper, Brass, Nickel Plate



CAT.	HOLDS NO.									
NO.	OF CELLS									
"AA" CELL										
146	1									
147	2									
148	3									
"C" CELL										
149	1									
150	2									
151	3									
	" CELL									
152	1									
153	2									
158	3									



WITH PC LUGS

For printed circuitry we have standardized our most popular holders with PC Lugs. Choice of single or multiple holders "AA" assembled with PC solder lugs.

SPECIFICATIONS:

Base: Steel, Phenolic or Aluminum Contacts: Brass, Nickel Plate Solder Lugs: Brass, Tin Plate Jumper, Brass, Nickel Plate

ALUMINUM HOLDERS		STEEL Holders								
CAT. NO.	HOLDS NO. Of Cells	CAT.NO.								
"AA" CELL										
2222	1	2228								
2223	2	2229								
	"C" CELL									
2224	1	2230								
2225	2	2231								
	"D" CELL									
2226	1	2232								
2227	2	2233								
	"1/2AA" CELL									
_	1	2103								
	"2/3A" CELL									
131	1									

*Dual cell, Steel holders will have

224



ALUMINUM



STEEL

Tel (516) 328-7500 • Fax (516) 328-1080

LITHIUM "2/3 A" OR "CR123" BATTERY

(800) 221-5510 • kec@keyelco.com



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THM LOW PROFILE LITHIUM-ION & ALKALINE CELL HOLDERS

"1/3N" · "AAA" · "1/2AA · "CR2" · "AA" · "2/3A"

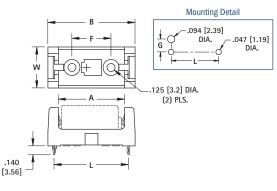
FEATURES

- Snap-In PC contact holds firmly in position for wave soldering
- . Tin Nickel contacts for excellent solderability and durability
- · Polarity clearly marked for orientation
- Snap-on retainer cover (optional) retains battery securely to withstand shock and vibration. Helps protect against shorting

APPLICATIONS

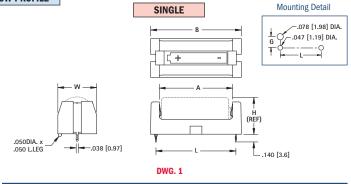
- Computer memory, power backup systems
- Telecommunications
- · Residential, industrial and commercial security systems
- PLC and industrial controls

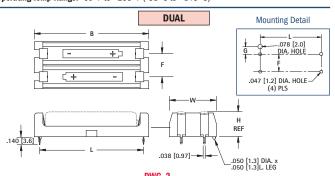


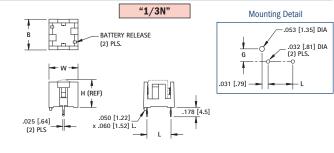


HOLDER	COVER										
CAT. NO.	CAT. NO.	L	W	H (Ref. Dim)	A	В	F	G	CELL SIZE	PACKAGING SPECS	BATTERY CROSS REFERENCE
108	108C	1.160 (29.5)	.640 (16.3)	.633 (16.1)	1.030 (26.2)	1.360 (34.5)	.610 (15.5)	.279 (7.1)	"1/2 AA" "CR2"	50 pieces per tray	Energizer 544, CR2, Duracell PX28L, CR2, Kodak K28A & KS28,CR2, Panasonic CR14250, CR2, Saft LCP3, Maxell 4LR44, CR2,Sanyo CR14250SE, CR2
1028	1024C 1028C	2.160 (54.9)	.640 (16.3)	.633 (16.1)	2.040 (51.8)	2.360 (59.9)	1.610 (40.9)	.279 (7.1)	"AA"	50 pieces per tray	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1029	1029C 1029LC	1.500 (38.1)	.720 (18.3)	.712 (18.1)	1.375 (34.9)	1.700 (43.2)	.950 (24.1)	.320 (8.1)	"2/3 A"	50 pieces per tray	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE









Contacts: .012 (.30) Phosphor Bronze, Gold Plate

DWG.	3	

HOLDER	COVER		U	WG. 2				I			DWG. 3
CAT. NO.	CAT. NO.	DWG No.	L	W	H (Ref. Dim)	В	F	G	CELL SIZE	PACKAGING SPECS	BATTERY CROSS REFERENCE
1021	1020C	1	1.933 (49.1)	.500 (12.7)	.445 (11.3)	2.140 (54.4)	-	.209 (5.3)	"AAA"	50 pieces per tray	All Major Manufacturers
1023	1022C	2	1.933 (49.1)	.875 (22.2)	.445 (11.3)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	"AAA"	25 pieces per tray	All Major Manufacturers
1015	1024C		2.161 (54.9)	.612 (15.5)	.603 (15.3)	2.359 (59.9)		.265 (6.7)	"AA"	50 pieces per tray	All Major Manufacturers
1013*	1012C	2	2.161 (54.9)	1.180 (30.0)	.603 (15.3)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	25 pieces per tray	All Major Manufacturers
1017	1024C	1	1.156 (29.4)	.612 (15.5)	.603 (15.3)	1.360 (34.5)	_	.265 (6.7)	"1/2 AA"	50 pieces per tray	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Saft LCP3, Maxell 4LR44, Sanyo CR14250SE
1019*	1018C	1	1.487 (37.8)	.720 (18.3)	.682 (17.3)	1.690 (42.9)	-	.319 (8.1)	"2/3 A"	50 pieces per tray	Duracell DL2/3A, Kodak K123L, Saft 450SC & VR0450,
1099*	_	2	1.487 (37.8)	1.440 (36.6)	.682 (17.3)	1.690 (42.9)	.720 (18.3)	.319 (8.1)	"2/3 A"	25 pieces per tray	Sanyo CR17335SE
503	_	3	.450 (11.4)	.540 (13.7)	.506 (12.9)	.570 (14.5)	-	.240 (6.1)	"1/3 N"	300 pieces per tray	Duracell DL1/3N, Sanyo K58L, Energizer CR1/3N

Tel (516) 328-7500 • Fax (516) 328-1080

*Base Material: PBT UL 94V-0

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ROHS COMPLIANT — ISO 9001 CERTIFIED

SMT LOW PROFILE LITHIUM-ION & ALKALINE CELL HOLDERS "1/3N"· "AAA"· "1/2AA"· "AA" · " 2/3A"

FEATURES

- Low profile surface mount holders for Cylindrical Lithium and Alkaline batteries
- UL 94V-0 Heat resistant Nylon Housings well suited for reflow soldering
- Designed for vacuum pick and place assembly
- Gold-plated Phosphor Bronze contacts assure low contact resistance and are readily solderable

- Ideal for both lead free solder and traditional solder process
- Battery installation and removal does not require tools
- Securely holds battery in place
- · Polarity clearly marked for orientation
- Operating temp range:
- -60°F to +293°F (-51°C to +145°C)

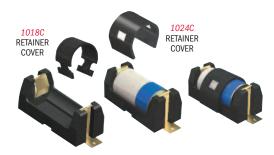
APPLICATIONS

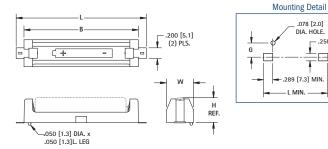
- Computer memory, power backup systems
- Telecommunications
- Residential, industrial and commercial security systems

- .250 [6.4] MIN

PLC and industrial controls

SMT ULTRA LOW PROFILE



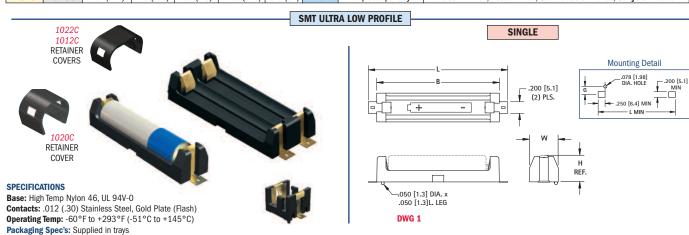


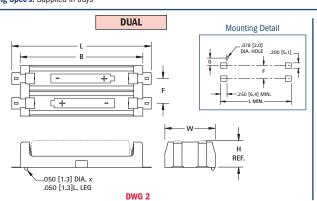
SPECIFICATIONS

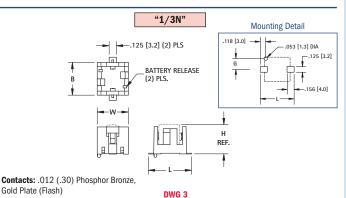
Base: High Temp Nylon 46, UL 94V-0

Contacts: .012 (.30) Stainless Steel, Gold Plate (Flash)

CAT. NO.	COVER	L	w	H (REF)	В	G	CELL SIZE	PACKAGING SPECS	BATTERY CROSS REFERENCE
1016	1024C	1.723 (43.8)	.612 (15.5)	.603 (15.3)	1.360 (34.5)	.265 (6.7)	"1/2AA"	50 pieces per tray	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Panasonic CR14250, Saft LCP3, Maxell
1024	1024C	2.711 (68.9)	.612 (15.5)	.603 (15.3)	2.359 (59.9)	.265 (6.7)	"AA"	50 pieces per tray	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran,
1018	1018C	2.062 (52.3)	.720 (18.3)	.682 (17.3)	1.690 (42.9)	.319 (8.1)	"2/3A"	50 pieces per tray	Duracell DL2/3A, Kodak K123L, Saft 450SC & VR0450, Sanyo CR17335SE







CAT. NO.	COVER	DWG NO.	L	W	H (REF)	В	F	G	CELL SIZE	PACKAGING SPECS	BATTERY CROSS REFERENCE
1020	1020C	1	2.421 (61.5)	.500 (12.7)	.445 (11.3)	2.140 (54.4)	_	.209 (5.3)	"AAA"	50 pieces per tray	All Maior Manufacturers
1022	1022C	2	2.421 (61.5)	.875 (22.2)	.445 (11.3)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	"AAA"	25 pieces per tray	All Major Manufacturers
1024	1024C	1	2.711 (68.9)	.612 (15.5)	.603 (15.3)	2.359 (59.9)	-	.265 (6.7)	"AA"	50 pieces per tray	All Maior Manufacturers
1012	1012C	2	2.711 (68.9)	1.180 (30.0)	.603 (15.3)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	25 pieces per tray	All Major Manufacturers
1018	1018C	1	2.062 (52.3)	.720 (18.3)	.682 (17.3)	1.690 (42.9)	-	.319 (8.1)	"2/3A"	50 pieces per tray	Duracell DL2/3A, Kodak K123L, Saft 450SC & VR0450
1100	_	2	2.062 (52.3)	1.440 (36.6)	.682 (17.3)	1.690 (42.9)	.720 (18.3)	.319 (8.1)	"2/3A"	25 pieces per tray	Sanyo CR17335SE
498	_	3	.748 (19.0)	.540 (13.7)	.506 (12.9)	.570 (14.5)	-	.240 (6.1)	"1/3N"	300 pieces per tray	Duracell DL1/3N, Sanyo K58L, Energizer CR1/3N

SMT & THM POLARIZED LITHIUM-ION & ALKALINE CELL HOLDERS

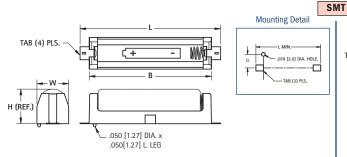
RETAINER **COVERS** 1024C 1020C 1022C

FEATURES

- · UL 94V-0 Heat resistant nylon housing well suited for reflow and wave soldering operations
- · Coil Spring will rebound after severe shock load
- Polarized holder offers circuit protection against improper battery installation
- Ideal for both lead free and traditional solder processes
- Operating temp range: -60°F to 293°F (-51°C to 145°C)

APPLICATIONS:

- Computer memory, power backup systems
- Telecommunications
- · Residential, Industrial and commercial security systems
- · PLC and industrial controls



SPECIFICATIONS

Base: High Temp Nylon 46 - UL94V-0

Contacts: .012 (.30) Stainless Steel .020 (0.50) Dia. Music Wire - Gold Plate (Flash)

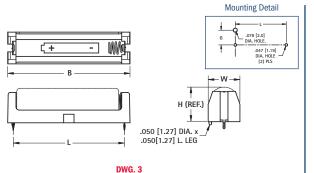
Operating Temp Range: -60°F to 293°F (-51°C to 145°C)

Packaging Spec's: Supplied in trays

AT
Mounting Detail
TAB (4) PLS. H (REF.) H (REF
DWG. 2
2.54.2

HOLDER	COVER										
CAT. NO.	COVER	DWG NO.	L	w	H (Ref. Dim)	В	F	G	CELL SIZE	PACKAGING SPECS	BATTERY CROSS REFERENCE
1076	1020C	1	2.421 (61.5)	.500 (12.7)	.445 (11.3)	2.140 (54.4)	-	.209 (5.3)	"AAA"	50 pieces per tray	All Major Manufacturers
1078	1022C	2	2.421 (61.5)	.875 (22.2)	.445 (11.3)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	"AAA"	25 pieces per tray	All Major Manufacturers
1088	1024C	1	2.711 (68.9)	.612 (15.5)	.603 (15.3)	2.359 (59.9)	-	.265 (6.7)	"AA"	50 pieces per tray	All Major Manufacturers
1090	1012C	2	2.711 (68.9)	1.180 (30.0)	.603 (15.3)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	25 pieces per tray	All Major Manufacturers
1126	1024C	1	1.723 (43.8)	.612 (15.5)	.603 (15.3)	1.360 (34.5)	-	.265 (6.7)	"1/2 AA"	50 pieces per tray	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Saft LCP3, Maxell 4LR44, Sanyo CR14250SE
1128	1018C	1	2.062 (52.3)	.720 (18.3)	.682 (17.3)	1.690 (42.9)	ı	.319 (8.1)	"CR123A"	50 pieces per tray	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450,
1014	_	2	2.062 (52.3)	1.440 (36.6)	.682 (17.3)	1.690 (42.9)	.720 (18.3)	.319 (8.1)	"CR123A"	25 pieces per tray	Sanyo CR17335SE

THM

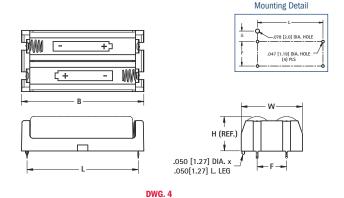


SPECIFICATIONS

Base: High Temp Nylon 46 - UL94V-0

Contacts: .012 (.30) Stainless Steel .020 (0.50) Dia. Music Wire - Nickel Plate

Packaging Spec's: Supplied in trays



HOLDER	COVER										
CAT.		DWG			Н				CELL	PACKAGING	
NO.	COVER	NO.	L	W	(Ref. Dim)	В	F	G	SIZE	SPECS	BATTERY CROSS REFERENCE
1075	1020C	3	1.933 (49.1)	.500 (12.7)	.445 (11.3)	2.140 (54.4)	-	.209 (5.3)	"AAA"	50 pieces per tray	All Major Manufacturers
1077	1022C	4	1.933 (49.1)	.875 (22.2)	.445 (11.3)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	"AAA"	25 pieces per tray	All Major Manufacturers
1087	1024C	3	2.145 (54.5)	.612 (15.5)	.603 (15.3)	2.359 (59.9)	_	.265 (6.7)	"AA"	50 pieces per tray	All Major Manufacturers
1089*	1012C	4	2.145 (54.5)	1.180 (30.0)	.603 (15.3)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	25 pieces per tray	All Major Manufacturers
1127	1024C	3	1.156 (29.4)	612 (15.5)	603 (15.3)	1.360 (34.5)	_	.265 (6.7)	"1/2 AA"	50 pieces per tray	Energizer 544, Duracell PX28L, Kodak K28A & KS28,
1127	10240	5	1.100 (20.4)	.012 (10.0)	.000 (10.0)	1.000 (04.0)	_	.203 (0.1)	1/2 AA	Ju pieces pei tray	Saft LCP3, Maxell 4LR44, Sanyo CR14250SE
1129*	1018C	3	1.487 (37.8)	.720 (18.3)	.682 (17.3)	1.690 (42.9)	-	.319 (8.1)	CR123A	50 pieces per tray	Duracell DL123A, Kodak K123LA, Panasonic CR123A,
1055*	_	4	1.487 (37.8)	1.440 (36.6)	.682 (17.3)	1.690 (42.9)	.720 (18.3)	.319 (8.1)	CR123A	25 pieces per tray	Varta CR1213A, Sanyo CR123A
*Rase Mate	arial DRT I	II QAV	<u> </u>								

THM & SMT POLARIZED "CR2" • "CR123A" CELL HOLDERS

FEATURES

- · Battery installation and removal does not require tools
- UL 94V-0 Heat resistant Nylon Housings well suited for reflow or wave soldering
- · Securely holds battery in place
- · Polarized holder offers circuit protection against improper battery installation

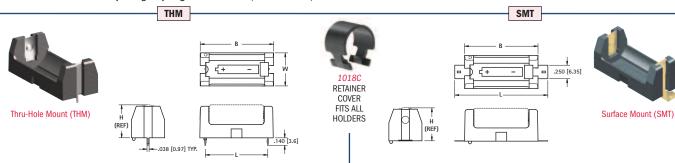
- · Computer memory, power backup systems
- Telecommunications/Security Systems
- PLC and industrial controls

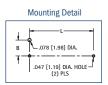
SPECIFICATIONS

Base: High Temp Nylon 46, UL Rated 94V-0

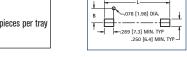
Operating temp range: -60°F to 293°F (-51°C to 145°C)

Contacts: .012 (.30) Stainless Steel, Gold Plate (Flash) - SMT Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate - THM





CAT. NO.	MOUNTING Style	L	w	H (Ref)	В	G	CELL SIZE	PACKAGING SPEC'S
1010	SMT	1.723 (43.8)	C10 /15 5\	661 /16 0\	1.360 (34.5)	06E (6.7)	CR2	
1011	THM	1.156 (29.4)	.012 (10.0)	(13.3) 1.001 (10.0)	1.300 (34.3)	.200 (0.1)	UNZ	50 pieces per tray
1050	SMT	2.062 (52.4)	.720 (18.3) .712 (18.1)	1 600 //2 0\	210 (0.1)		ou pieces pei tray	
1051*	THM	1.487 (37.8)	.120 (10.3)	./12 (18.1)	1.090 (42.9)	.518 (0.1)	UNIZOA	

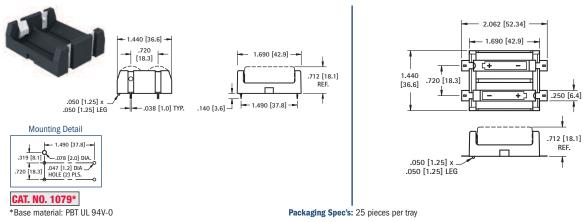


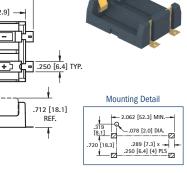
Mounting Detail

*Base material: PBT UL 94V-0

THM DUAL CR123A

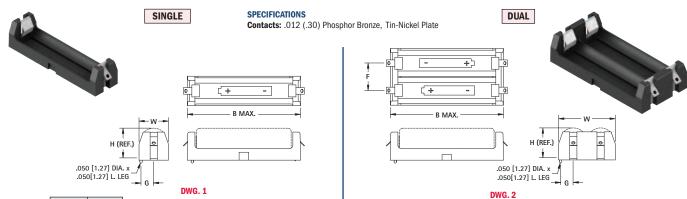
SMT DUAL CR123A





CAT. NO.1080

IN-LINE LITHIUM-ION & ALKALINE HOLDERS



HOLDER	COVER						1		
CAT.		DWG						CELL	
NO.	COVER	NO.	W	Н	В	F	G	SIZE	BATTERY CROSS REFERENCE
1115	1024C	1	.612 (15.5)	.603 (15.3)	2.359 (59.9)		.265 (6.7)	"AA"	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1114*	1012C	2	1.180 (30.0)	.603 (15.3)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1117	1024C	1	.612 (15.5)	.603 (15.3)	1.360 (34.5)		.265 (6.7)	"1/2 AA"	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Saft LCP3,
1117	10240	•	.012 (10.0)	.003 (10.3)	1.000 (04.0)		.203 (0.1)	1/2 MM	Maxell 4LR44, Sanyo CR14250SE
1119*	1018C	1	.720 (18.3)	.682 (17.3)	1.690 (42.9)		.319 (8.1)	"2/3 A"	Duracell DL2/3A, Kodak K123L, Saft 450SC & VR0450
1120*	_	2	1.440 (36.6)	.682 (17.3)	1.690 (42.9)	.720 (18.3)	.319 (8.1)	"2/3 A"	Sanyo CR17335SE

*Base material: PBT UL 94V-0

Tel (516) 328-7500 • Fax (516) 328-1080

"18350" LITHIUM-ION BATTERY HOLDERS

Leaf Springs



Leaf Spring Polarized



Leaf Spring Solder Lugs



Coil Spring Polarized



FEATURES

- · Low profile surface mount holder for Cylindrical Lithium and alkaline batteries
- UL 94V-0 heat resistant nylon housing well suited for reflow soldering
- · Battery installation and removal does not require tools
- · Securely holds battery in place
- · Accomodates cells with or without built-in PCB protection circuits
- · Polarity clearly marked for orientation
- · Polarized holders available for protection against improper battery installation

*Dual Cell Not Shown

SPECIFICATIONS

Operating Temp Range: -60°F to +293°F (-51°C to +145°C) Base: High Temp Nylon 46, UL 94V-0 Contacts: Stainless Steel/Music Wire

SURFACE MOUNT

.250 [6.3] (4) PLS

.753

[19.1]

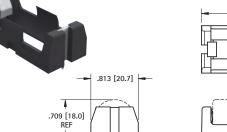
SMT - Gold Plate (Flash) THM - Tin-Nickel Plate



PC Battery Clip Available See Page 13.

THRU HOLE MOUNT

SINGLE CELL



.630

[16.0]

SPECIFICATIONS

Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate

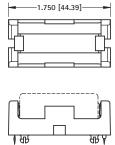
CAT. NO. 1095 Leaf Springs

CAT. NO. 1095P Leaf Spring Polarized

CAT. NO. 1111 Coil Spring Polarized

CAT. NO. 1101 Solder Lugs

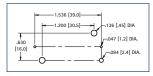
Packaging Spec's: 50 pieces per tray



-1.200 [30.5]-

1.536 [39.0]

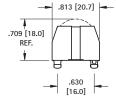
Mounting Detail



Mounting Detail

1.378 [35.0]

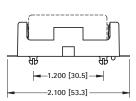
.136 [3.5] DIA. (2) PLS



1.566 [39.8]

1.378 [35.0]

.250 [6.3]



1.748 [44.4]

SPECIFICATIONS

Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel, Gold Plate (Flash)

CAT. NO. 1096 Leaf Springs

CAT. NO. 1096P Leaf Spring Polarized

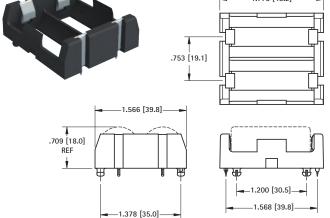
CAT. NO. 1110 Coil Spring Polarized Packaging Spec's: 50 pieces per tray



2.100 [53.3] MIN

1.778 [45.2]

1.778 [45.2]



SPECIFICATIONS

Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate

CAT. NO. 1097 Leaf Springs

CAT. NO. 1097P Leaf Spring Polarized

CAT. NO. 1137 Coil Spring Polarized

CAT. NO. 1102 Solder Lugs

Packaging Spec's: 25 pieces per tray

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.047 [1.2] DIA (4) PLS

094 [2.4] DIA.

.753 [19.1]

DUAL CELL

Contacts: .012 (.30) Stainless Steel, Gold Plate (Flash)

CAT. NO. 1098 Leaf Springs

Pad Lavout ←.136 [3.5] DIA (2) PLS .250 [6. MIN. [19.1] .094 [2.4] DIA.-2.130 [54.1] MIN

1.200 [30.5]

2.130 [54.1]

SPECIFICATIONS

.709 [18.0]

REF





CAT. NO. 1136 Coil Spring Polarized Packaging Spec's: 25 pieces per tray



"18650" LITHIUM-ION BATTERY HOLDERS

Leaf Springs

Leaf Spring Polarized

Leaf Spring Solder Lugs

Coil Spring Polarized









FEATURES

- · Low profile surface mount holder for Cylindrical Lithium and alkaline batteries
- UL 94V-0 heat resistant nylon housing well suited for reflow soldering
- · Battery installation and removal does not require tools
- Securely holds battery in place
- · Accomodates cells with or without built-in PCB protection circuits
- Polarity clearly marked for orientation
- · Polarized holders available for protection against improper battery installation

Mounting Detail

.136 [3.45] (2) PLS 047 [1.19]

.094 [2.39]

X .062 [1.57] L.

Mounting Detail

.047 [1.2] DIA. (4) PLS .136 [3.45] (2) PLS

—.125 [3.18] DIA. (2) PLS

_ 2.175 [55.2]-

.753 [19.1]

-2.175 [55.2]-

(2) PLS

*Dual Cell Not Shown

SPECIFICATIONS

Operating Temp Range:

-60°F to +293°F (-51°C to +145°C) Base: High Temp Nylon 46, UL 94V-0 Contacts: Stainless Steel/Music Wire SMT - Gold Plate (Flash)

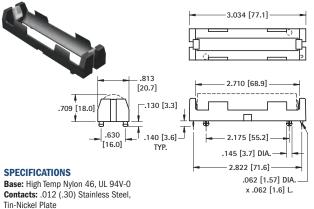
THM - Tin-Nickel Plate



PC Battery Clip Available See Page 13.

THRU HOLE MOUNT

SINGLE CELL



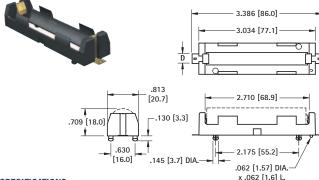
CAT. NO. 1043 Leaf Springs

CAT. NO. 1043P Leaf Spring Polarized

CAT. NO. 1131 Coil Spring Polarized

CAT. NO. 1044 Solder Lugs

Packaging Spec's: 50 pieces per tray



SURFACE MOUNT

SPECIFICATIONS

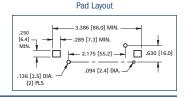
Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel,

Gold Plate (Flash)

CAT. NO. 1042 Leaf Springs

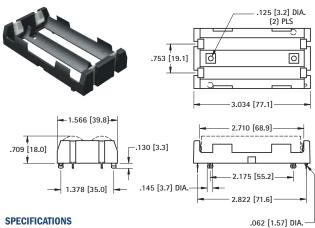
CAT. NO. 1042P Leaf Spring Polarized

CAT. NO. 1130 Coil Spring Polarized Packaging Spec's: 50 pieces per tray



DUAL CELL

16.0



SPECIFICATIONS

Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate

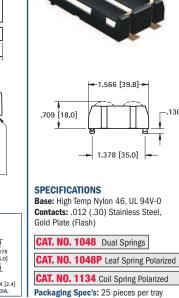
CAT. NO. 1049 Dual Springs

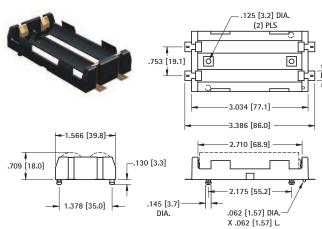
CAT. NO. 1049P Leaf Spring Polarized

CAT. NO. 1135 Coil Spring Polarized

CAT. NO. 1047 Solder Lugs

Packaging Spec's: 25 pieces per tray





SPECIFICATIONS

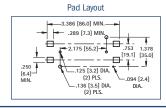
Base: High Temp Nylon 46, UL 94V-0 Contacts: .012 (.30) Stainless Steel,

Gold Plate (Flash)

CAT. NO. 1048 Dual Springs

CAT. NO. 1134 Coil Spring Polarized

Packaging Spec's: 25 pieces per tray



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KEYSTONE Rohs Compliant - ISO 9001 CERTIFIED

POLARIZED 20700 & 21700 CELL HOLDERS

FEATURES

- · Battery installation and removal does not require tools
- UL 94V-0 Heat resistant Nylon Housings well suited for reflow or wave soldering
- · Securely holds battery in place
- Polarized holder offers circuit protection against improper battery installation

APPLICATIONS

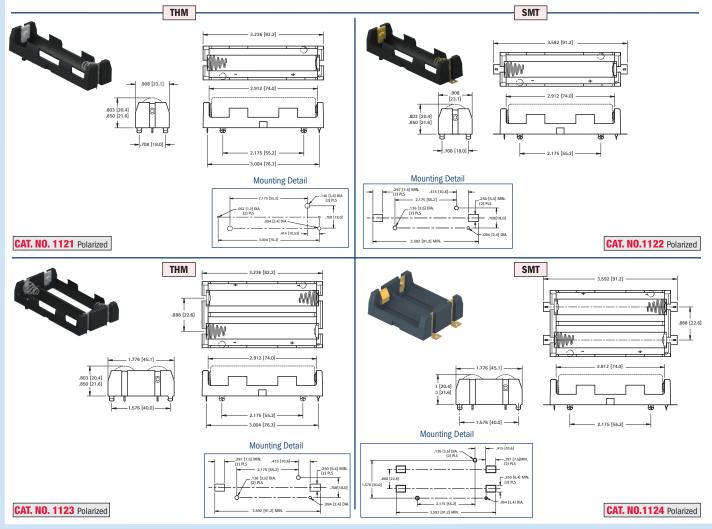
- · Computer memory, power backup systems
- Telecommunications/Security Systems
- PLC and industrial controls

SPECIFICATIONS

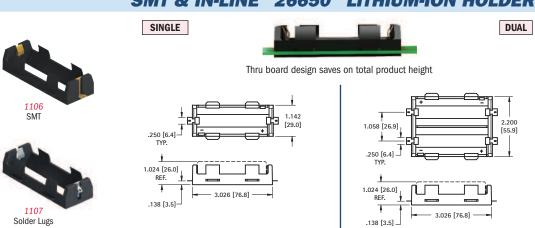
Base: High Temp Nylon 46, UL Rated 94V-0

Operating temp range: -60°F to 293°F (-51°C to 145°C)

Contacts: .012 (.30) Stainless Steel, Gold Plate (Flash) - SMT Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate - THM



SMT & IN-LINE "26650" LITHIUM-ION HOLDERS



DWG. 1 SMT version shown

DWG. 2 SMT version shown



SPECIFICATIONS

30

SMT Base: High Temperature Nylon 4/6, UL Rated 94V-0 SMT Contacts: .012 (03) Stainless Steel, Gold Plate (Flash) Inline Base: PBT, UL Rated 94V-0

Inline Solder Lugs: .012 (.3) Stainless Steel, Nickel Plate

CAT. NO.	MTG.	FIG. No.	HOLDS NO. Of Cells	SMT MOUNTIN	G PAD LAYOUT C
1107	Caldon Luga	1	1	-	-
1109	Solder Lugs	2	2	-	_
1106	SMT	1	1	1.142 (29.0)	On Center
1102		2	2	2 200 (55 9)	1 058 (26 0)

Mounting Detail 3.046 [77.4]

1109

Solder Lugs

ON/OFF SWITCH

ISI-PAK® BATTERY HOLDER

- · Water and dust resistant to IP65 standards
- Sealed on/off switch included
- Ideal for outdoor use such as holiday lighting or automotive emergency markers or harsh manufacturing environments
- Batteries securely held in place to assure a positive connection and low contact resistance
- Coil springs accommodate variations in battery lengths
- Withstands shock and vibration

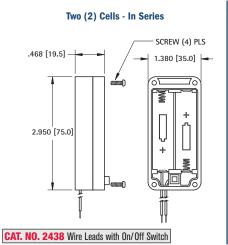
SPECIFICATIONS

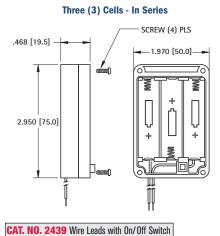
Holder: ABS Plastic

Springs: Spring Steel, Nickel Plate

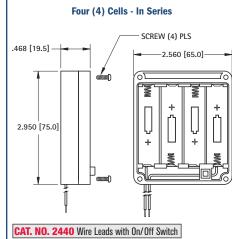
Wires: 6.0 (152) long, #26 AWG Stripped and pretinned ends, UL/CSA 1007 Temperature Range: 50° F to 194° F (10° C to 90° C)







"AA"



DENSI-PAK® BATTERY HOLDERS

"AA"

- · Supports high density packaging
- · Batteries securely held in place to assure a positive connection and maintain a low contact resistance
- · Contact springs self-adjust to variations in battery length
- Snap-on cover protects and secures batteries
- Withstands shock and vibration

SPECIFICATIONS

Holder: ABS

Springs: Spring Steel, Nickel Plate

Wires (Red & Black): 6.0 (152) long, #26 AWG,

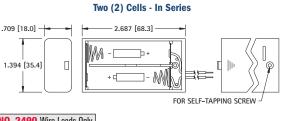
Stripped and pretinned ends, UL/CSA1007

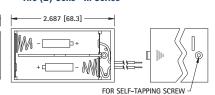
3 Pin Locking PC Connector:

Housing: Nylon 6/6

Contacts: Phosphor Bronze, Tin Plate



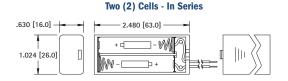




Three (3) Cells - In Series .728 [18.5] 2.697 [68.5] □- ₩ FOR SELF-TAPPING 1.890 [48.0] SCREW П CAT. NO. 2487 Wire Leads Only CAT. NO. 2487CN Wire Leads w/PC Connector CAT. NO. 2487SW Wire Leads with On/Off Switch "AAA"



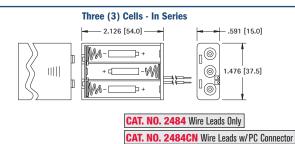
CAT. NO. 2490SW Wire Leads with On/Off Switch



CAT. NO. 2489 Wire Leads Only

CAT. NO. 2489CN Wire Leads w/PC Connector

CAT. NO. 2489SW Wire Leads with On/Off Switch



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CAT. NO. 2484SW Wire Leads with On/Off Switch

"AA"

"AAA"



PC Mount
PC pins eliminate wiring.
Solders directly to PC for
compact applications.



PC Mount with Ribbon (RB)
Ribbon wraps under batteries during
battery instillation. For easy battery
removal, pulling up on ribbon will
dislodge batteries from holder.



6" Wire LeadsAllows battery holder to be place remotely from PC freeing up valuable board space.



6" Wire Leads with 3 Pin Locking PC Connector (CN) PC connector eliminates hand soldering of wire leads to PC. Battery holder can be quickly added or removed from PC.

- · Coil spring contacts will adjust to different battery lengths
- Batteries securely held in place to assure a positive connection and low contact resistance
- · Withstands shock and vibration
- · Holders for multiple cell are prewired in series
- Custom designs welcome, Ex: Parallel wiring, custom wiring, combing any of the available options

SPECIFICATIONS

Base: Polypropylene

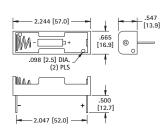
Spring: Spring Steel, Nickel Plate **PC Pins:** Brass, Nickel Plate

Wire Leads: 6.0 (152), #26 AWG Stripped and Tinned, UL/CSA 1007

Ribbon: Woven Nylon, Red

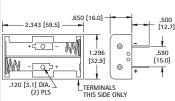
PC Connector: Nylon 6/6, Phosphor Bronze, Tin Plate





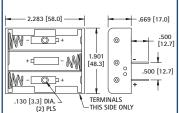
CAT. NO. 2460	PC Mount
CAT. NO. 2460RB	PC Mount w/Ribbon
CAT. NO. 2461	Wire Leads Only
CAT. NO. 2461CN	Leads w/PC Connector

Two (2) Cells - In Series



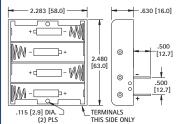
CAT. NO. 2462	PC Mount
CAT. NO. 2462RB	PC Mount w/Ribbon
CAT. NO. 2463	Wire Leads Only
CAT. NO. 2463CN	Leads w/PC Connector

Three (3) Cells - In Series



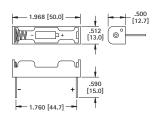
CAT. NO. 2464	PC Mount
CAT. NO. 2464RB	PC Mount w/Ribbon
CAT. NO. 2465	Wire Leads Only
CAT. NO. 2465CN	Leads w/PC Connector

Four (4) Cells - In Series



	PC Mount
CAT. NO. 2477RB	PC Mount w/Ribbon
CAT. NO. 2478	
CAT. NO. 2478CN	Leads w/PC Connector

One (1) Cell



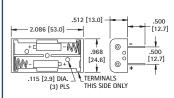
CAT. NO. 2466 PC Mount

CAT. NO. 2466RB PC Mount w/Ribbon

CAT. NO. 2467 Wire Leads Only

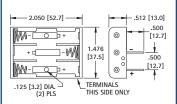
CAT. NO. 2467CN Leads w/PC Connector

Two (2) Cells - In Series



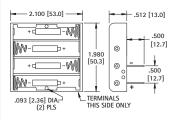
	PC Mount
CAT. NO. 2468RB	PC Mount w/Ribbon
	Wire Leads Only
CAT. NO. 2469CN	Leads w/PC Connector

Three (3) "AAA" Cells - In Series



	PC Mount
CAT. NO. 2479RB	PC Mount w/Ribbon
CAT. NO. 2480	Wire Leads Only
CAT. NO. 2480CN	Leads w/PC Connector

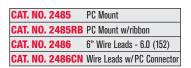
Four (4) Cells - In Series

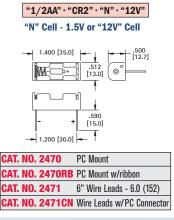


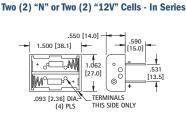
CAT. NO. 2481 PC Mount
CAT. NO. 2481RB PC Mount w/Ribbon
CAT. NO. 2482 Wire Leads Only
CAT. NO. 2482CN Leads w/PC Connector

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"1/2 AA" Cell -or "CR2" Cell 1.358 [34.5] [17.5] -.472 [12.0]







CAT. NO. 2472	PC Mount
CAT. NO. 2472RB	PC Mount w/ribbon
CAT. NO. 2473	6" Wire Leads - 6.0 (152)
CAT. NO. 2473CN	Wire Leads w/PC Connector

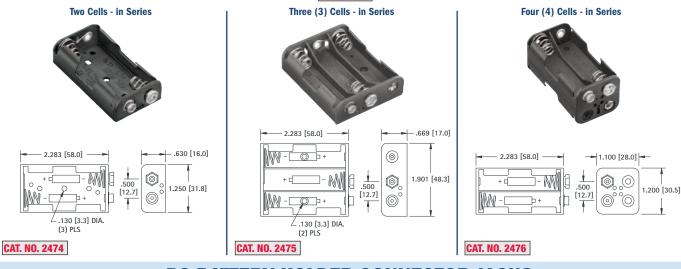
PLASTIC BATTERY HOLDERS WITH SNAP-ON CONNECTORS

"AA"

- · Same quality features as our wired & PC mount battery holders
- Features separable "Snap-On/Snap-Off" battery connector (9 Volt type) to assurereliable connections
- · Easily disconnect battery holder from your device no tools required
- Batteries securely held in place to maintain a positive contact and a low contact resistance
- · Battery contact springs self adjust to variations in battery length
- Mates with Keystone 9 Volt battery straps and connectors (Refer to pages 36)

SPECIFICATIONS

Holder: Polypropylene
Male/Female Contacts: Brass, Nickel Plate Springs: Spring Steel, Nickel Plate



PC BATTERY HOLDER CONNECTOR JACKS

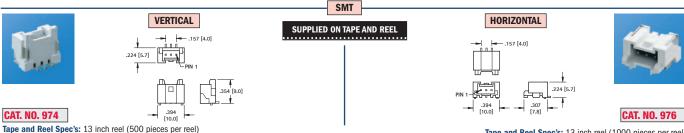
- · Available in SMT and THM versions
- · Vertical and horizontal entry options
- · SMT version supplied on tape and reel for vacuum pick and place assembly
- Used to connect any battery holder with PC connector (CN suffix)
- Wiring harness locks onto jack for assured connectivity

SPECIFICATIONS

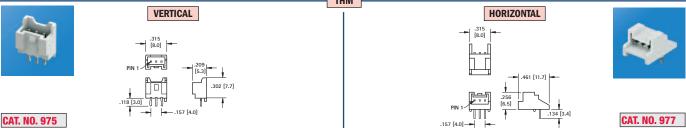
Body: Nylon 6/6, UL94V-0 Pins: Brass, Tin Plate

Current Rating: 3 Amps, 100V max

Temperature Range: -13°F (-25°C) to 185°F (85°C)



Tape and Reel Spec's: 13 inch reel (1000 pieces per reel) THM



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