

THM LOW PROFILE LITHIUM & ALKALINE CELL HOLDERS

"1/2AA" • "CR2" • "AA" • "2/3A"

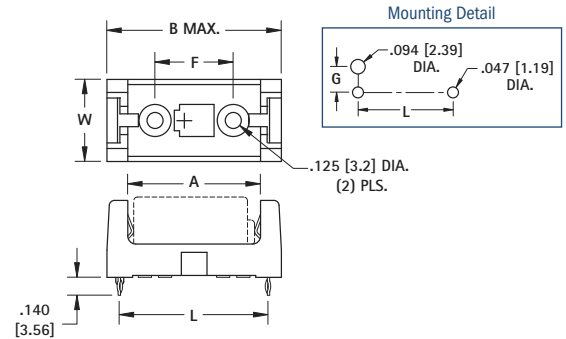
FEATURES

- Snap-In PC contact holds firmly in position for wave soldering
- Tin Nickel Plated 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. Tamper-proof.

APPLICATIONS

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

THM LOW PROFILE



SPECIFICATIONS

Base/Retainer Cover: PBT, UL 94V-0

Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate

Operating Temp Range: -60°F to +290°F (-50°C to +145°C)

HOLDER	COVER										
CAT. NO.	CAT. NO.	L	W	H (Ref. Dim)	A	B (MAX)	F	G	CELL SIZE	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"	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"	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"	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE	

THM ULTRA LOW PROFILE

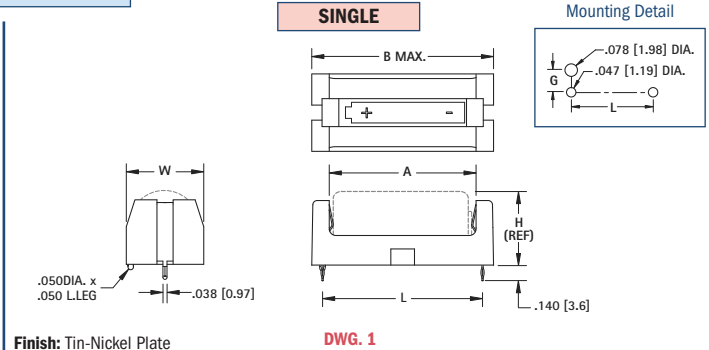


SPECIFICATIONS

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

Contacts: .012 (.30) Phosphor Bronze, Tin-Nickel Plate

Operating Temp Range: -60°F to +290°F (-50°C to +145°C)

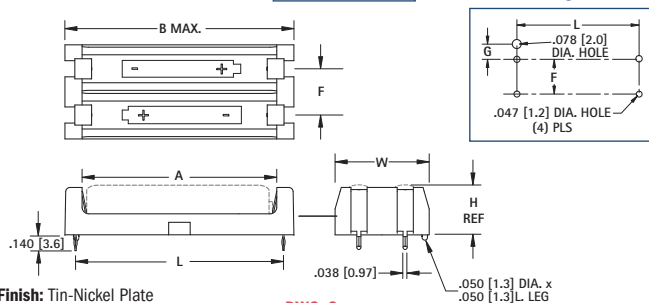


Finish: Tin-Nickel Plate

DWG. 1

DUAL

Mounting Detail

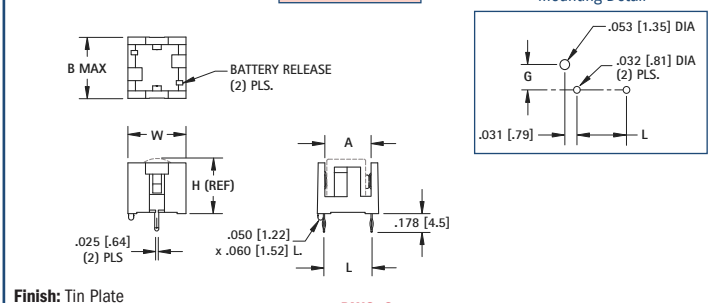


Finish: Tin-Nickel Plate

DWG. 2

"1/3N"

Mounting Detail



Finish: Tin Plate

DWG. 3

HOLDER	COVER											
CAT. NO.	CAT. NO.	DWG NO.	L	W	H (Ref. Dim)	A	B (MAX)	F	G	CELL SIZE	BATTERY CROSS REFERENCE	
1015	1024C	1	2.145 (54.5)	.612 (15.5)	.603 (15.3)	2.040 (51.8)	2.359 (59.9)	—	.265 (6.7)	“AA”	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran	
1013	1012C	2	2.145 (54.5)	1.180 (30.0)	.603 (15.3)	2.040 (51.8)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	“AA”	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran	
1021	1020C	1	1.933 (49.1)	.500 (12.7)	.445 (11.3)	1.810 (46.0)	2.140 (54.4)	—	.209 (5.3)	“AAA”	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran	
1023	1022C	2	1.933 (49.1)	.875 (22.2)	.445 (11.3)	1.810 (46.0)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	“AAA”	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran	
1019	1018C	1	1.487 (37.8)	.720 (18.3)	.682 (17.3)	1.365 (42.9)	1.690 (42.9)	—	.319 (8.1)	“2/3 A”	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE	
1017	1024C	1	1.156 (29.4)	.612 (15.5)	.603 (15.3)	1.030 (26.2)	1.360 (34.5)	—	.265 (6.7)	“1/2 AA”	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Saft LCP3, Maxell 4LR44, Sanyo CR14250SE	
503	—	3	.450 (11.4)	.540 (13.7)	.506 (12.9)	.430 (10.9)	.570 (14.5)	—	.240 (6.1)	“1/3 N”	Duracell DL1/3N, Sanyo K58L, Energizer CR1/3N	

SMT LOW PROFILE LITHIUM & ALKALINE CELL HOLDERS

"1/2AA" • "AA" • "2/3A"

AVAILABLE ON TAPE AND REEL

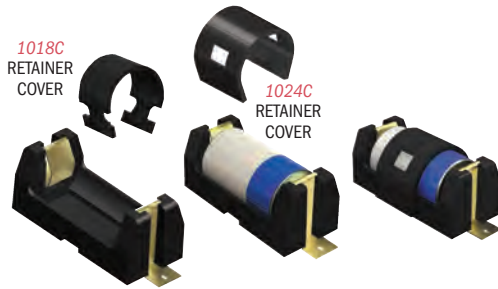
FEATURES

- 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

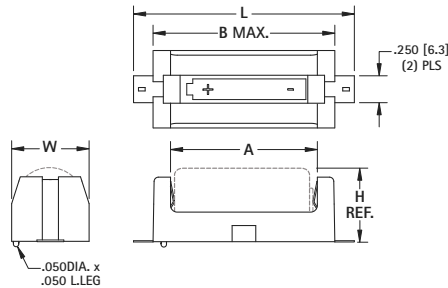
- Ideal for both lead free solder and traditional solder process
- Battery installation and removal does not require tools
- Securely holds battery in place
- Polarity clearly marked for orientation
- **Operating Temp Range:**
-60°F to +290°F (-50°C to +145°C)

APPLICATIONS

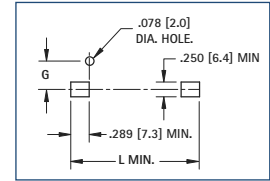
- Computer memory, power backup systems
- Telecommunications
- Residential, industrial and commercial security systems
- PLC and industrial controls



SMT ULTRA LOW PROFILE



Mounting Detail



SPECIFICATIONS

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

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

CAT. NO.	ON TAPE	COVER	L	W	H (REF)	A	B (MAX)	G	CELL SIZE	TAPE & REEL SPECS	BATTERY CROSS REFERENCE
BULK	& REEL									PACKED ON 13" REEL	
1016	1016TR	1024C	1.723 (43.8)	.612 (15.5)	.603 (15.3)	1.030 (26.2)	1.360 (34.5)	.265 (6.7)	"1/2 AA"	56mm wide, 24mm pitch 125 pcs/reel	Energizer 544, Duracell PX28L, Kodak K28A & KS28, Panasonic CR14250, Saft LCP3, Maxell 4LR44, Sanyo CR14250SE
1024	1024TR	1024C	2.711 (68.9)	.612 (15.5)	.603 (15.3)	2.040 (51.8)	2.359 (59.9)	.265 (6.7)	"AA"	88mm wide, 28mm pitch, 100 pcs/reel	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1018	1018TR	1018C	2.053 (52.2)	.720 (18.3)	.682 (17.3)	1.365 (34.7)	1.690 (42.9)	.319 (8.1)	"2/3 A"	72mm wide, 32mm pitch, 100 pcs/reel	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE

SMT ULTRA LOW PROFILE



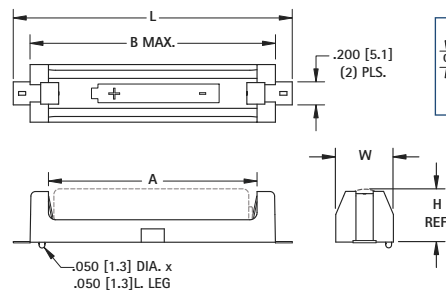
SPECIFICATIONS

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

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

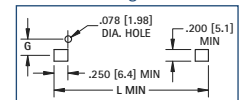
Operating Temp: -60°F to +290°F (-50°C to +145°C)

SINGLE

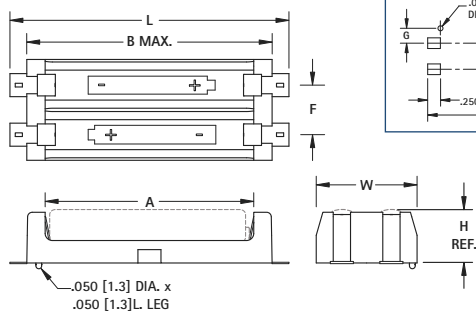


DWG 1

Mounting Detail

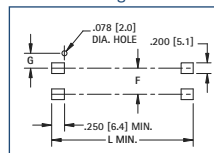


DUAL

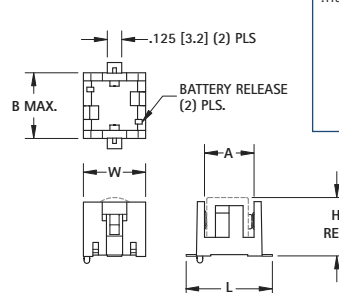


DWG 2

Mounting Detail

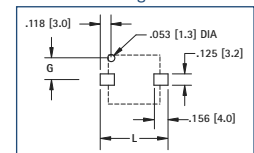


"1/3N"



DWG 3

Mounting Detail



CAT. NO.	ON TAPE	COVER	DWG NO.	L	W	H (REF)	A	B (MAX)	F	G	CELL SIZE	TAPE AND REEL SPECS	BATTERY CROSS REFERENCE
BULK	& REEL											PACKED ON 13" REEL	
1020	1020TR	1020C	1	2.421 (61.5)	.500 (12.7)	.445 (11.3)	1.810 (46.0)	2.140 (54.4)	-	.209 (5.3)	"AAA"	88mm Wide, 24mm pitch, 200 pcs/reel	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1022	1022TR	1022C	2	2.421 (61.5)	.875 (22.2)	.445 (11.3)	1.810 (46.0)	2.140 (54.4)	.430 (10.9)	.182 (4.6)	"AAA"	88mm Wide, 32mm pitch, 125 pcs/reel	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
1012	1012TR	1012C	2	2.711 (68.9)	1.180 (30.0)	.603 (15.3)	2.040 (51.8)	2.359 (59.9)	.568 (14.4)	.265 (6.7)	"AA"	88mm Wide, 48mm pitch, 100 pcs/reel	Energizer, Duracell, Panasonic, Sanyo, Varta, Rayovac, Tadiran
498	498TR	-	3	.748 (19.0)	.540 (13.7)	.506 (12.9)	.430 (10.9)	.570 (14.5)	-	.240 (6.1)	"1/3 N"	44mm Wide, 24mm pitch, 125 pcs/reel	Duracell DL1/3N, Sanyo K58L, Energizer CR1/3N

SMT & THM POLARIZED LITHIUM CELL HOLDERS

"CR2" - "CR123A"

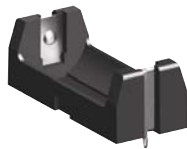
FEATURES

- Low profile surface mount and Thru Hole Mount Holders for Lithium batteries
- UL 94V-0 Heat resistant Nylon Housings well suited for reflow or wave soldering.

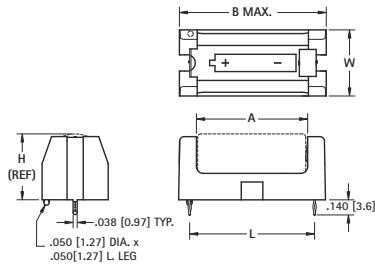
- Battery installation and removal does not require tools.
- Securely holds battery in place
- Polarized holder offers circuit protection against improper battery installation

APPLICATIONS

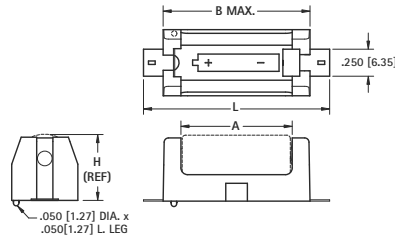
- Computer memory, power backup systems
- Telecommunications
- Residential, industrial security systems
- PLC and industrial controls



Thru-Hole Mount (THM)



1018C
RETAINER
COVER
FITS ALL
HOLDERS



Surface Mount (SMT)

SPECIFICATIONS

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

Contacts: .012 (1.30) Phosphor Bronze, Gold Plate (Flash) - SMT

.012 (1.30) Phosphor Bronze, Tin-Nickel Plate - THM

Operating temp range: -60°F to 290°F (-50°C to 145°C)

CAT. NO.	MOUNTING STYLE	L	W	H (Ref)	A	B (MAX)	G	CELL SIZE
1010	SMT	1.723 (43.8)	.612 (15.5)	.661 (16.8)	1.030 (26.2)	1.360 (34.5)	.265 (6.7)	CR2
1011	THM	1.156 (29.4)	.612 (15.5)	.661 (16.8)	1.030 (26.2)	1.360 (34.5)	.265 (6.7)	CR2
1050	SMT	2.062 (52.4)	.720 (18.3)	.712 (18.1)	1.365 (34.7)	1.690 (42.9)	.319 (8.1)	CR123A
1051	THM	1.487 (37.8)	.720 (18.3)	.712 (18.1)	1.365 (34.7)	1.690 (42.9)	.319 (8.1)	CR123A

RUGGED STEEL & ALUMINUM LITHIUM CELL HOLDERS

- Sturdily constructed of quality materials
- Contacts made from Brass, Nickel Plate
- Ideal for punishing applications

STEEL HOLDERS "1/2AA"



CAT. NO. 2103

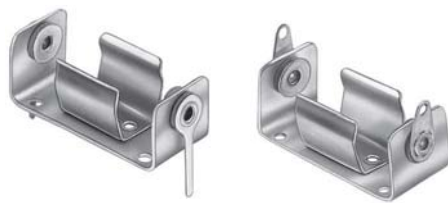
CAT. NO. 1103



BATTERY CROSS REFERENCE

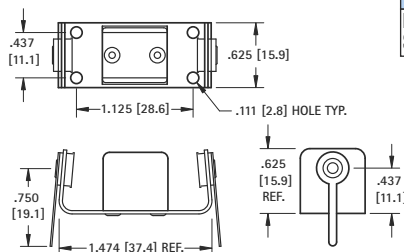
Energizer: 544, Duracell: PX28L, Kodak: K28A & KS28, Panasonic: CR14250, Sanyo: CR14250SE, Saft: LCP3, Maxell: 4LR44

ALUMINUM HOLDERS "2/3A"



CAT. NO. 131

CAT. NO. 132



BATTERY CROSS REFERENCE

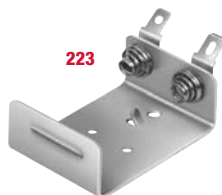
Duracell: DL2/3A, Kodak: K123L, Sanyo: CR173335SE, Saft: 450SC & VR0450

6 VOLT LITHIUM CELL HOLDERS

224



223



- Polarizing Tab for proper orientation
- Lightweight, ideal for rugged applications
- DL223A or Equivalent Batteries

SPECIFICATIONS

Frame: Aluminum 2024-T3 Terminals: Brass, Tin Plate

Spring Contacts: .025 (.64) Dia. Spring Steel, Nickel Plate

