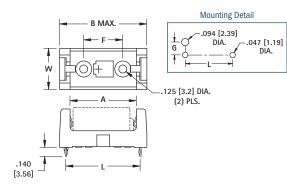
# **THM LOW PROFILE LITHIUM & ALKALINE CELL HOLDERS**

## "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





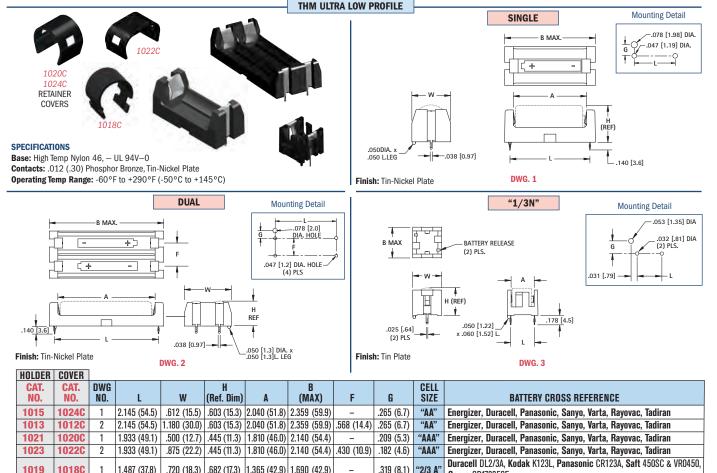
HOLDER COVER

Base/Retainer Cover: PBT, UL 94V-0 .062 [1.57] DIA. Contacts: .012 (.30) Stainless Steel, Tin-Nickel Plate X .062 [1.57] L. LEG **Operating Temp Range:** -60°F to +290°F (-50°C to +145°C)

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)		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 <b>A</b> "	Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE

н REF.

.038 [0.97]



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.319 (8.1)

.265 (6.7)

"2/3 A'

"1/2 AA"

.682 (17.3) 1.365 (42.9) 1.690 (42.9) 1018C 1.487 (37.8) .720 (18.3) 1 1024C 1 1.156 (29.4) .612 (15.5) .603 (15.3) 1.030 (26.2) 1.360 (34.5) .540 (13.7) .506 (12.9) .430 (10.9) .570 (14.5) .450 (11.4) 3

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KEYSTONE www.keyelco.com 31-07 20th Road - Astoria, NY 11105-2017 RoHS COMPLIANT ~ ISO 9001 CERTIFIED

Maxell 4LR44, Sanyo CR14250SE .240 (6.1) "1/3 N" Duracell DL1/3N, Sanyo K58L, Energizer CR1/3N

Energizer 544, Duracell PX28L, Kodak K28A & KS28, Saft LCP3,

Sanyo CR17335SE

THM BATTERY HOLDERS

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1017

503

# **SMT LOW PROFILE LITHIUM & ALKALINE CELL HOLDERS** "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 orentation
- Operating Temp Range:
- -60°F to +290°F (-50°C to +145°C)

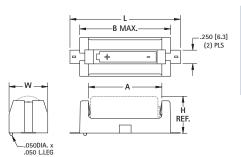
## SMT ULTRA LOW PROFILE

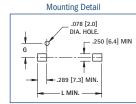
AVAILABLE ON TAPE AND REEL

## **APPLICATIONS**

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







SPECIFICATIONS

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

Contacts. 012 (.30) Filosphor Diolize, Gold Flate (frash)											
CAT. NO. Bulk	ON TAPE & REEL		L	w	H (REF)	A	B (MAX)	G	CELL Size	TAPE & REEL SPECS PACKED ON 13" REEL	BATTERY CROSS REFERENCE
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 <b>AA</b> "	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"		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"		Duracell DL2/3A, Kodak K123L, Panasonic CR123A, Saft 450SC & VR0450, Sanyo CR17335SE

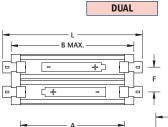


10200 RFTAINER COVERS

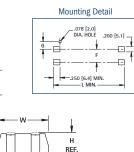
#### SPECIFICATIONS

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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)



.050 [1.3] DIA. x .050 [1.3]L. LEG



SINGLE Mounting Detail .078 [1.98] DIA. HOLE B MAX .200 [5.1] (2) PLS. 250 [6 4] MIN .050 [1.3] DIA. > .050 [1.3]L. LEG DWG 1

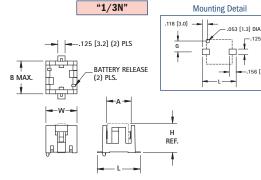
SMT BATTERY HOLDERS

-.200 [5.1] MIN

. .125 [3.2]

.156 [4.0]

4



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

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KEYSTONE RoHS COMPLIANT - ISO 9001 CERTIFIED

www.keyelco.com 31-07 20th Road - Astoria. NY 11105-2017 · Low profile surface mount and Thru Hole Mount Holders

• UL 94V-0 Heat resistant Nylon Housings well suited for

FFATURES

for Lithium batteries

reflow or wave soldering.



# **SMT & THM POLARIZED LITHIUM CELL HOLDERS**

## "CR2" · "CR123A"

· Polarized holder offers circuit protection against

· Securely holds battery in place

improper battery installation

· Battery installation and removal does not require tools.

#### **APPLICATIONS**

Computer memory, power backup systems

[13.5]

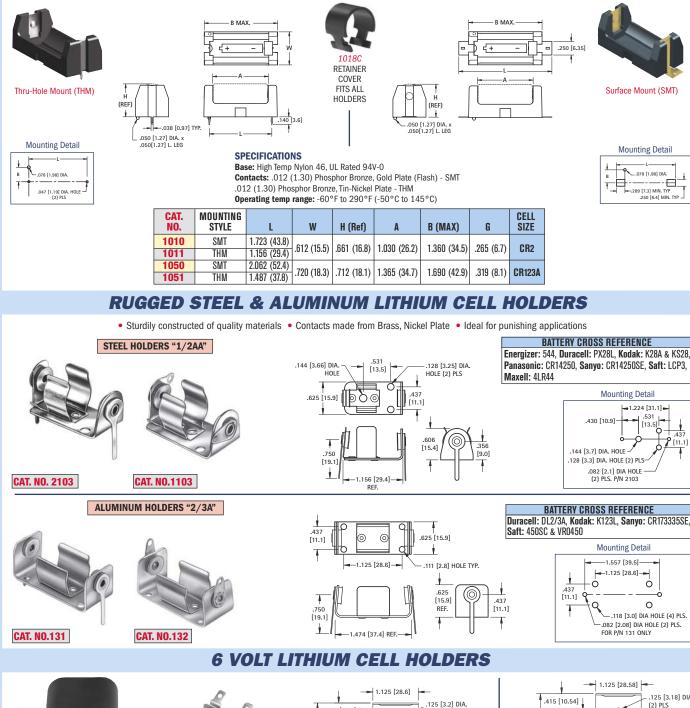
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[11.1]

- Telecommunications
- Residential, industrial security systems
- PLC and industrial controls



1.125 [28.58] .125 [3.18] DIA. (2) PLS .125 [3.2] DIA. .415 [10.5] | 1.656 | .750 [42.06] 1.000 [19.05] REF. [25.40] (2) PLS POLARIZING 1 .750 1.000 [19.1] POLARIZING [42.1] REF. ТАВ [25.4] SPRING C 1 SPRING 0 10 .187 [4.75] TAB .205 [5.21] TAB .238 [6.1] • Polarizing Tab for proper orientation .648 [16.5 .836 [21.25] REF. • Lightweight, ideal for rugged applications .600 [15.24] .600 • DL223A or Equivalent Batteries [15.2] ŧ, .750 [19.1] .648 [16.46]-.239 [6.06] ŧ Frame: Aluminum 2024-T3 Terminals: Brass, Tin Plate Spring Contacts: .025 (.64) Dia. Spring Steel, Nickel Plate - .075 [1.9] CAT. NO. 224 CAT. NO. 223 KEYSTON Tel (718) 956-8900 • Fax (718) 956-9040 www.keyelco.com

THIUM BATTERY HOLDERS

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**SPECIFICATIONS** 

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