

THRU-HOLE (THM) & SURFACE MOUNT (SMT) COIN CELL HOLDERS

DESIGN ADVANTAGES...

- Reliable spring tension assures low contact resistance
- · Retains battery securely to withstand shock
- All conductive polystyrene carrier tape meets ANSI/EIA - 481 standard
- · Base material UL Rated 94V-0. Impervious to most industrial solvents
- Operating temperature range: -60°F to +293°F (-50°C to +145°C)

IDEALLY SUITED FOR...

- Computer memory, power transfer and back-up systems
- Video and telecommunications power back-up
- Microprocessors and Microcomputer memory hold (desktop and laptop applications)
- · Industrial and commercial security and alarm systems
- Communications power sources
- PC/104 applications

20mm CELLS





- · Polarity clearly marked (+) . Compatible with vacuum and mechanical pick &
- place assembly systems Low profile for high density packaging
- Rugged construction, light weight

MATERIAL:

Contacts: .015 (.38) Steel

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



- · SMT solder tail with "Flow-Hole" design for increased ioint strength
- Viewable solder tails assures reliable joint inspection
- Safe for all soldering & reflow operations

[11.1] 703

AVAILABLE ON TAPE AND REEL

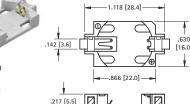
Pad Lavout



Tin-Nickel Plate Gold Plate (Flash) CAT. NO. ON TAPE CAT. NO. ON TAPE BATTERY PAD SIZE HIEGHT **CELLS** & REEL BULK & REEL REFERENCE 1061TR 1081 1081TR .156 (4.0) (1) Cell (any 20mm) .290 (7.4) CR2012, CL2016 BR2020, DL2032 .278 (7.1) (2) 2012, (2) 2016 1063TR 1093 1093TR 1062TR 1082TR .156 (4.0) (2) 2020, (2) 2025, (2) 2032 1082 CR2032 .391 (9.9) 1064TR 1094 **1094TR** .278 (7.1) (3) 2012, (3) 2016

Tape & Reel Spec's: 44mm wide; 32mm pitch; 13 inch reel (200 pieces per reel)





· Compatible with vacuum and mechanical pick & place assembly systems

MATERIAL:

Surface Mount

Contacts: .006 (.15) Phosphor Bronze Gold Plate (Flash) Base: Glass Filled LCP UL Rated 94V-0

BATTERY REFERENCE 1060 1060TR

Tape & Reel Spec's: 44mm wide; 24mm pitch; 13 inch reel (500 pieces per reel)

2025 / 2032 CELL

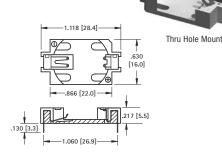
- Polarized Holders
- Low Profile for high density packaged PCB's
- Vertical entry

Pad Lavout

7

.433 [11.0] X .276 [7.0] OPTIONAL ADHESIVE

-1.154 [29.3]-.102 [2.6] MIN.



Mounting Detail



MATERIAL: Contacts: .006 (.15) Phosphor Bronze, Tin Plate Base: Glass Filled LCP, UL Rated 94V-0

BATTERY REFERENCE

INSULATED RETAINERS

AVAILABLE ON TAPE AND REEL

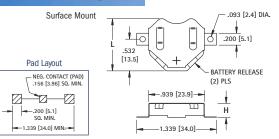
20mm CELLS

· Ideal for 6 volt or 3 volt applications

-1.256 [31.9]-

- . Two coin cell batteries can be installed in series
- · Plastic insulator prevents shorting of battery, within the holder, when installed improperly
- Low profile
 - Battery release ports for easy battery replacement
 - Refer to pages 6 & 7 for a complete offering of coin cell retainers

MATERIAL: Contacts: .010 (.25) Phosphor Bronze Insulator: High Temperature, Nylon 46, UL Rated 94V-0



Thru Hole Mount .535 [13.6] Mounting Detail BATTERY RELEASE (2) PLS. **-.**940 [23.9]⊣ NEG. CONTACT (PAD) * .156 [3.96] SQ. MIN. . .939 . [23.9] .110 [2.8] - 1.004 [25.5]-

		Surface	Mount									Thru Hole Mount		
Ti	n-Nickel Pl	ckel Plate Matte Tin Plate			Matte Tin Plate			BATTERY	REFERENCE			Tin-Nick	el Plate	
CAT. NO.	CAT. NO.	ON TAPE	CAT. NO.	CAT. NO.	ON TAPE		ı	6 VOLT	3 VOLT			CAT. NO.	CAT. NO.	
LOOSE*	BULK	& REEL	LOOSE*	BULK	& REEL	L	Н	(2) CELLS	(1) CELL	L	Н	LOOSE*	BULK	
3020-2	3020	3020TR	3070-2	3070	3070TR	.890 (22.6)	.156 (4.0)	2012, 2016	2020, 2025	.890 (22.6)	.156 (4.0)	3021-2	3021	
3022-2	3022	3022TR	3072-2	3072	3072TR	.877 (22.3)	.240 (6.1)	2020, 2025	2032	.877 (22.3)	.240 (6.1)	3023-2	3023	
3024-2	3024	3024TR	3074-2	3074	3074TR	.877 (22.3)	.295 (7.5)	2032	Not Applicable	.877 (22.3)	.295 (7.5)	3025-2	3025	

Supplied Unassembled Tape & Reel Spec's: 56mm wide; 28mm pitch; 13 inch reel: 3020TR, 3070TR 400 pieces per reel; 3022TR, 3072TR 250 pieces per reel; 3024TR, 3074TR 250 pieces per reel

Tel (718) 956-8900 • Fax (718) 956-9040

(800) 221-5510 • kec@keyelco.com

KEYSTONE Rohs Compliant - ISO 9001 CERTIFIED

www.keyelco.com 31-07 20th Road - Astoria, NY 11105-2017





THRU HOLE (THM) & SURFACE MOUNT (SMT) BUTTON CELL RETAINERS

Economical and reliable SMT and THM coin cell retainers specifically designed for miniature electronic applications with limited board space

- Available in Thru Hole Mount (THM) or Surface Mount
- (SMT) configurations
- SMT solder tail with "flow-hole" design for increased joint strength
- THM legs maintain relative position during and after soldering

4.8 mm

- Ideally suited for High Density packaging
- Reliable spring tension assures low contact resistance
- Retains battery securely to withstand shock and vibration
- Solder tail located outside of retainer body which facilitates visual inspection of the solder joints



MATERIAL: .006 (.15) Phosphor Bronze, Gold Plate (Flash)

	ON TAPE & REEL	BATTERY REFERENCE
2994	2994TR	ML414

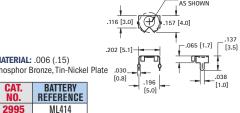
Tape & Reel Spec's: 16mm wide; 8mm pitch; 13 inch reel (1500 pieces per reel)





Mounting Detail

MATERIAL: 006 (15) Phosphor Bronze, Tin-Nickel Plate

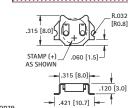




Mounting Detail







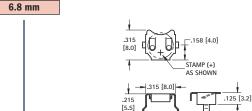
AVAILABLE ON TAPE AND REEL



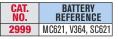
BULK	& REEL	FINISH
2998	2998TR	Tin-Nickel
3098	3098TR	Matte Tin

BATTERY REFERENCE MC621, V364, SC621, DR13H, V13AT

Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (1000 pieces per reel)



MATERIAL: .010 (.25) Phosphor Bronze, Tin-Nickel Plate







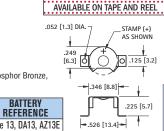


CAT NO OU TABL

MATERIAL: .010 (.25) Phosphor Bronze, Gold Plate (Flash)



Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (800 pieces per reel)







7.9 mm

9 - 10 mm



MATERIAL: .010 (.25) Phosphor Bronze, Tin-Nickel Plate

CAT. NO.	BATTERY Reference				
2989	Size 13, DA13, AZ13E				



Mounting Detail





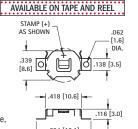


CAT. NO.	ON TAPE	
BULK	& REEL	FINISH
3030	3030TR	Tin-Nickel
3050	3050TR	Matte Tin

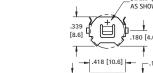
Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (1500 pieces per reel)

BATTERY REFERENCE

CR927, CR1025



Mounting Detail NEG. CONTACT (PAD) .114 [2.9]



.180 [4.6] -.116 [3.0]

.030 [0.8]-

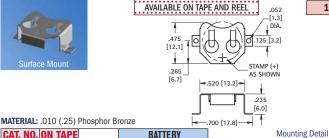
.336 [8.5]

MATERIAL: .006 (.15) Phosphor Bronze Tin-Nickel Plate

CAT.	BATTERY
NO.	REFERENCE
3031	CR927, CR1025

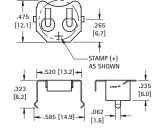








Tape & Reel Spec's: 32mm wide; 16mm pitch; 13 inch reel (600 pieces per reel)



MATERIAL: .010 (.25) Phosphor Bronze, Tin-Nickel Plate

CAT. NO.	BATTERY REFERENCE
2997	SR44, LR44, 357, MS76, PX76A, G-13, 303, V313



Mounting Detail



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11.6 mm

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THRU HOLE (THM) & SURFACE MOUNT (SMT) COIN CELL RETAINERS

SURFACE MOUNT (SMT)

FLOW HOLE/SLOT

POLARITY MARKING

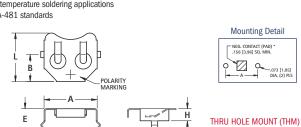
AVAILABLE ON TAPE AND REEL

Battery retainers are suited for high density PCB packaging. Engineered with reliable spring tension, these contacts assure low resistance while firmly securing the battery within the retainer.

Compatible with all wave and reflow operations

SURFACE MOUNT (SMT)

- Solder tails located outside of retainer body which facilitates visual inspection of the solder joints
- Flow-hole solder tail designed for increased joint strength
- Compatible with most vacuum and mechanical pick & place assembly systems
- Matte Tin Plate for lower soldering temperatures ideal where other temperature sensitive components are being used
- Tin-Nickel plated retainers are ideal for lead free, high temperature soldering applications
- All conductive polystyrene carrier tape meets ANSI/EIA-481 standards



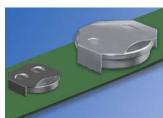
-.062 [1.6]

_	-	I		MATE	RIAL: .010 (.25) Phospho	or Bronze
ITE 1	TIN PLATE				R	EFER TO SU	RFACE I
NO.	ON TAPE	Δ	B	F	G	н	

MIN.

TIN-NICKEL PLATE		MATTE 1	TIN PLATE		REFER TO SURFACE MOUNT (SMT) DRAWING								
CAT. NO. BULK	ON TAPE & REEL	CAT. NO. BULK	ON TAPE & REEL	A	В	F	G	Н	L	W	CELL DIA.	BATTERY Reference	TAPE & REEL SPEC'S
3000	3000TR	3080	3080TR	.520 (13.2)	.265 (6.7)	.125 (3.2)	.125 (3.2)	.125 (3.2)	.475 (12.1)	.745 (18.9)	12mm	CR1216, BR1220, CL1225	32mm wide; 16mm pitch; 1000/reel
3012	3012TR	3092	3092TR	.664 (16.9)	.344 (8.7)	.125 (3.2)	.125 (3.2)	.156 (4.0)	.594 (15.1)	.914 (23.2)	16mm	BR1612, CR1616, CR1620, DL1632	44mm wide; 24mm pitch; 600/reel
3028	3028TR	3038	3038TR	.831 (21.1)	.298 (7.6)	.200 (5.1)	.050 (1.3)	.067 (1.7)	.618 (15.7)	.911 (23.1)	20mm	BR2012, CR2012, DL2012	44mm wide; 24mm pitch; 1000/reel
3026	3026TR	3078	3078TR	.831 (21.1)	.416 (10.6)	.200 (5.1)	.200 (5.1)	.085 (2.2)	.782 (19.9)	1.210 (30.7)	20mm	BR2016, CR2016, DL2016	44mm wide; 32mm pitch; 750/reel
3034	3034TR	3044	3044TR	.835 (21.2)	.291 (7.4)	.200 (5.1)	.050 (1.3)	.160 (4.1)	.635 (16.1)	0.915 (23.1)	20mm	DL2020, CR2025, CR2032	44mm wide; 24mm pitch; 500/reel
3002	3002TR	3082	3082TR	.831 (21.1)	.416 (10.6)	.200 (5.1)	.200 (5.1)	.156 (4.0)	.782 (19.9)	1.210 (30.7)	20mm	DL2020, CR2025, CR2032	44mm wide; 24mm pitch; 500/reel
3004	3004TR	3084	3084TR	.939 (23.9)	.475 (12.1)	.200 (5.1)	.200 (5.1)	.156 (4.0)	.832 (21.1)	1.339 (34.0)	23mm	BR2320, CL2325, CR2330, DL2335	56mm wide; 32mm pitch; 400/reel
3010	3010TR	3090	3090TR	.939 (23.9)	.475 (12.1)	.200 (5.1)	.200 (5.1)	.240 (6.1)	.819 (20.8)	1.339 (34.0)	23mm	CR2354, DL2354	56mm wide; 32mm pitch; 200/reel
3032	3032TR	3042	3042TR	1.000 (25.4)	.313 (8.0)	.200 (5.1)	.050 (1.3)	.067 (1.7)	.681 (17.3)	1.080 (27.4)	24mm	BR2412, CR2412	44mm wide, 24mm pitch, 1000/reel
3006	3006TR	3086	3086TR	1.000 (25.4)	.506 (12.9)	.200 (5.1)	.200 (5.1)	.156 (4.0)	.918 (23.3)	1.400 (35.6)	24mm	CR2430, DL2430	56mm wide; 32mm pitch; 400/reel
3008	3008TR	3088	3088TR	1.000 (25.4)	.506 (12.9)	.200 (5.1)	.200 (5.1)	.230 (5.8)	.890 (22.6)	1.400 (35.6)	24mm	CR2450, DL2450	56mm wide; 32mm pitch; 200/reel

TIN-NICKEL PLATE	REFER TO THRU HOLE MOUNT (THM) DRAWING							
CAT. NO. BULK	A	В	E	Н	L	W	CELL DIA.	BATTERY REFERENCE
3001	.520 (13.2)	.265 (6.7)	.210 (5.3)	.118 (3.0)	.475 (12.1)	.585 (14.9)	12mm	BR1216, CR1216, BR1220, CL1220, CR1220, BR1225
3013	.664 (16.9)	.344 (8.7)	.265 (6.7)	.156 (4.0)	.594 (15.1)	.723 (18.4)	16mm	BR1616, CR1612, CR1616, CR1620, CR1632
3029	.831 (21.1)	.298 (7.6)	.176 (4.5)	.067 (1.7)	.618 (15.7)	.890 (22.6)		BR2012, CR2012, DL2012
3027	.831 (21.1)	.416 (10.6)	.194 (4.9)	.085 (2.2)	.782 (19.9)	.890 (22.6)	20mm	BR2016, CR2016, DL2016
3003	.831 (21.1)	.416 (10.6)	.265 (6.7)	.156 (4.0)	.782 (19.9)	.890 (22.6)		BR2016, DL2020, CR2320, CR2025, CR2032
3005	.939 (23.9)	.475 (12.1)	.265 (6.7)	.156 (4.0)	.832 (21.1)	1.004 (25.5)	23mm	BR2320, CL2330, CR2320, BR2325, CR2325, DL2325
3011	.939 (23.9)	.475 (12.1)	.351 (8.9)	.240 (6.1)	.819 (20.8)	1.004 (25.5)	Zəllilli	CR2354, DL2354
3033	1.000 (25.4)	.313 (8.0)	.176 (4.5)	.067 (1.7)	.681 (17.3)	1.055 (26.8)		BR2412, CR2412
3007	1.000 (25.4)	.506 (12.9)	.265 (6.7)	.156 (4.0)	.918 (23.3)	1.055 (26.8)	24mm	CR2430, DL2430
3009	1.000 (25.4)	.506 (12.9)	.350 (8.9)	.230 (5.8)	.890 (22.5)	1.059 (26.9)	24111111	CR2450, DL2450
3039	1.000 (25.4)	.506 (12.9)	.450 (11.4)	.336 (8.5)	.890 (22.5)	1.059 (26.9)		CR2477, DL2477



THRU HOLE MOUNT (THM)

Snap-In Assures proper

contact

.128 [3.3]

Mounting Detail

- .212 [5.4]

.308 [7.8]

NEGATIVE BATTERY CONTACTS* AVAILABLE ON TAPE AND REEL

SPRING CONTACT

.625 [15.9]

.105 [2.7]

-.112 [2.8]

031 [.78] DIA

(3) PLS

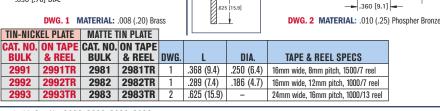
.127 [3.2]



 Assures proper contact Pad Layout



COMPACT	
.062 [1.54]	
DWG. 1 MATERIAL:	.008 (.20) Brass



Assures proper

Pad Lavout

contact

*Note: Cannot be used with Cat. No. 3028, 3029, 3032, 3033.

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MATERIAL:

.008 (.20) Phosphor

CAT. NO. 2990

Bronze, Tin-Nickel Plate

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