per reel)

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

20mm CELLS

DESIGN ADVANTAGES...

- Reliable spring tension assures low contact resistance
- · Retains battery securely to withstand shock and vibration
- 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

[3.2]

- Microprocessors and Microcomputer memory hold (desktop and laptop applications)
- Industrial and commercial security and alarm systems
- Communications power sources
- PC/104 applications





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

[11,1] D .703 [17.9] [23.65]

D

AVAILABLE ON TAPE AND REEL

Pad Lavout



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

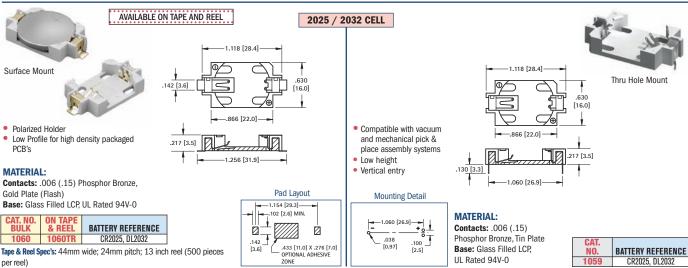
MATERIAL:

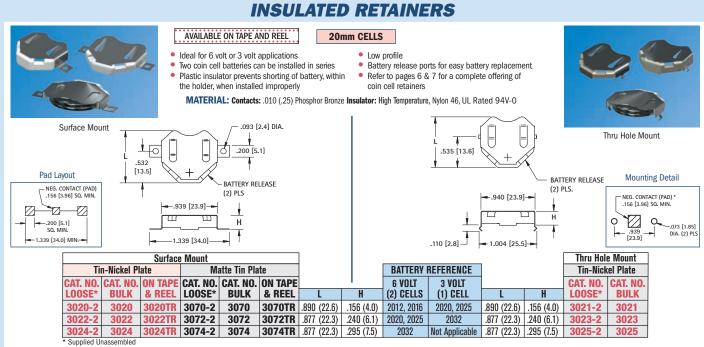
Contacts: .015 (.38) Spring Steel

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

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







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;

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



SURFACE MOUNT (SMT)

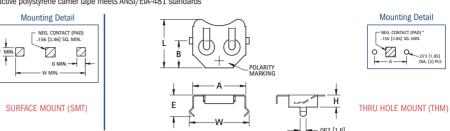
FLOW HOLE/SLOT

POLARITY

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.

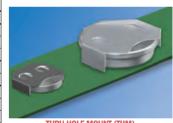
- Compatible with all wave and reflow operations
- Solder tails located outside of retainer body which facilitates visual inspection of the solder joints
- · Flow-hole solder tail designed for increased joint strength
- Compatible with most vacuum and mechanical pick & place assembly systems
- · Matte 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



MATERIAL: .010 (.25) Phosphor Bronze TIN-NICKEL PLATE MATTE TIN PLATE REFER TO SURFACE MOUNT (SMT) DRAWING CAT. NO. **ON TAPE** CAT. NO. ON TAPE CELL **BATTERY** W **BULK** & REEL BULK & REEL B ΠIΔ REFERENCE TAPE & REEL SPEC'S 3000 3080 3080TR .520 (13.2) .265 (6.7) .125 (3.2) .125 (3.2) .125 (3.2) .475 (12.1) .745 (18.9) 12mm 3000TR CR1216, BR1220, CL1225 32mm wide; 16mm pitch; 1000/reel BR1612, CR1616, CR1620, 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 44mm wide; 24mm pitch; 600/reel DL1632 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) BR2012, CR2012, DL2012 20mm 44mm wide; 24mm pitch; 1000/reel 3078TR .831 (21.1) .416 (10.6) .200 (5.1) .200 (5.1) .085 (2.2) .782 (19.9) 1.210 (30.7) BR2016, CR2016, DL2016 3026 3026TR 3078 20mm 44mm wide; 24mm pitch; 1000/reel 3044TR .835 (21.2) .291 (7.4) .050 (1.3) 0.915 (23.1) DL2020, CR2025, CR2032 3034 3034TR 3044 .200 (5.1) .160 (4.1) .635 (16.1) 20mm 44mm wide; 24mm pitch; 1000/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 BR2320, CL2325, CR2330, 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 56mm wide; 32mm pitch; 400/reel DL2335 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) 56mm wide; 32mm pitch; 200/reel CR2354, DL2354 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 3088 .890 (22.6) 1.400 (35.6) 24mm 3008 3008TR **3088TR** | 1.000 (25.4) | .506 (12.9) | .200 (5.1) | .200 (5.1) | .230 (5.8) 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)	20mm	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)	20mm	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)	23mm	CR2354, DL2354
3033	1.000 (25.4)	.313 (8.0)	.176 (4.5)	.067 (1.7)	.681 (17.3)	1.055 (26.8)	24mm	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)	24mm	CR2450, DL2450
3039	1.000 (25.4)	.506 (12.9)	.450 (11.4)	.336 (8.5)	.890 (22.5)	1.059 (26.9)	24mm	CR2477, DL2477

AVAILABLE ON TAPE AND REEL



6 volt applicatins. See page 4

THRU HOLE MOUNT (THM)

Snap-In Assures proper

contact

.128 [3.3]

0 2 .073 [1.9] DIA. (2) PLS

Mounting Detail

212 [5.4]

.308 [7.8]

.373 [9.5]

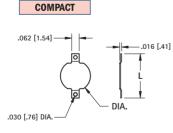
.250 [6.4] DIA

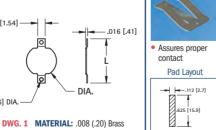
NEGATIVE BATTERY CONTACTS*

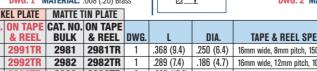


 Assures proper contact Pad Layout









.105 [2.7] .112 [2.8] 031 [.78] DIA (3) PLS .625 15.9 .127 [3.2]

SPRING CONTACT

DWG. 2	MATERIAL:	.010	(.25)	Brass

TAPE & REEL SPECS
imm wide, 8mm pitch, 1500/7 reel
3mm wide, 12mm pitch, 1000/7 reel
4mm wide, 16mm pitch, 1000/13 reel
ìr

*Note: Cannot be used with Ultra Low Profile Retainers: Cat. No. 3028, 3029, 3032, 3033, 3038 & 3042



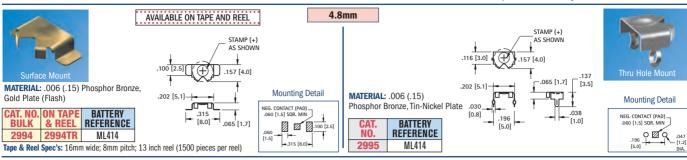
[2.01]

MATERIAL: .008 (.20) Phosphor Bronze, Tin-Nickel Plate

CAT. NO. 2990

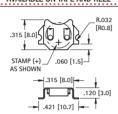
THRU HOLE (THM) & SURFACE MOUNT (SMT) BUTTON CELL RETAINERS

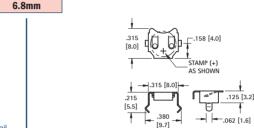
- Available in Thru Hole Mount (THM) or Surface Mount
- (SMT) configurations
- SMT solder tail with "flow-hole" design for increased joint strength
- THM legs maintain relative position during and after soldering
 - Ideally suited for High Density packaging
 - Reliable spring tension assures low contact 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: .010 (.25) Phosphor Bronze

2998 2998TR Tin-Nick 3098 3098TR Matte 1	CAT. NO. BULK	ON TAPE & REEL	FINISH
3098 3098TR Matte T	2998	2998TR	Tin-Nick
	3098	3098TR	Matte T

BATTERY REFERENCE kel MC621, V364, SC621, DR13H, V13AT Γin Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (1000 pieces per reel)

.052 [1.3] DIA

Mounting Detail

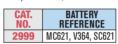
7.9mm

2989

3031

11.6mm

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











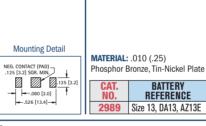




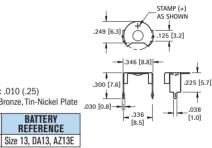
AVAILABLE ON TAPE AND REEL

STAMP (+)

AS SHOWN



-.440 [11.2]

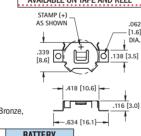


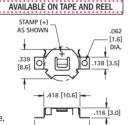


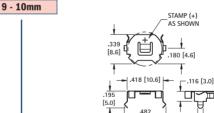
Mounting Detail











Phosphor Bronze, Tin-Nickel Plate

BATTERY

REFERENCE

CR927, CR1025

BATTERY

REFERENCE



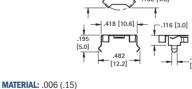
MATERIAL: .006 (.15) Phosphor Bronze, Tin-Nickel Plate

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

REFERENCE CR927, CR1025

Mounting Detail



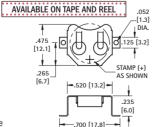


Mounting Detail

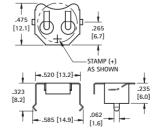


Tape & Reel Spec's: 24mm wide; 12mm pitch; 13 inch reel (1500 pieces per reel)











MATERIAL: .010 (.25) Phosphor Bronze

700 [17.8]				
CAT. NO. BULK	ON TAPE & REEL		BATTERY Reference	
2996	2996TR	Tin-Nickel	SR44, LR44, 357, MS76,	
3096	3096TR	Matte Tin	PX76A, G-13, 303, V313	
Tape & Reel	Spec's: 32mr	n wide; 16mn	pitch; 13 inch reel (600 piece	es per reel)



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



Mounting Detail

6