## **LOCKING COIN CELL RETAINERS**

- · Coin cell is secured even in shock & vibration applications
- · Battery can be removed without use of tools



#### **Toolless Battery installation:**

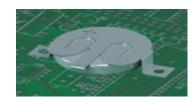
- 1. Tilt battery so that top edge of battery will slide under retaining tab
- 2. Level battery and slide into retainer until retaining tab snaps over battery.



- Flow hole solder tail designed for increased joint strength
- · Compatible with most vacuum and mechanical pick and place assembly systems
- All conductive polystyrene carrier tape meets ANSI/EIA-481 standard



• Tin-Nickel plating is ideal for High temperature, lead free, soldering



#### **Locking Retainer:**

Battery will stay retained even in severe shock applications such as hand held devices. Battery can be removed by lifting retaining tab and pushing battery from back end of retainer



- · Snap-In legs will maintain positioning prior and during soldering
- Compatible with wave solder application

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

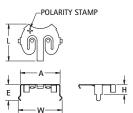




POLARITY STAMP









Thru Hole Mount

## AVAILABLE ON TAPE AND REEL

Surface	Mount							Thru Hole Mount
CAT. NO. BULK	ON TAPE & REEL	A	Н	L	w	CELL DIA.	BATTERY REFERENCE	CAT. NO. BULK
2894	2984TR	.520 (13.2)	.106 (2.7)	.494 (12.5)	.700 (17.8)	12mm	CR1220	2895
2896	2986TR	.670 (17.0)	.171 (4.3)	.620 (15.8)	.920 (23.4)	16mm	BR1632	2897
2898	2988TR	.830 (21.1)	.171 (4.3)	.771 (19.6)	1.210 (30.7)	20mm	CR2032	2899

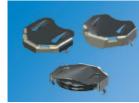
# SURFACE MOUNT (SMT) & THRU-HOLE (THM) INSULATED RETAINERS



#### 20mm CELLS

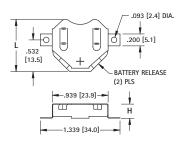
- Ideal for 6 volt or 3 volt applications Two coin cell batteries can be installed in series
- Plastic insulator prevents shorting of battery, within
- the holder, when installed improperly
- Low profile
- Battery release ports for easy battery replacement
- Refer to pages 8 & 11 for a complete offering of coin cell retainers

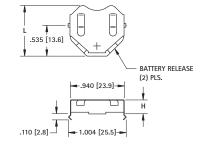
MATERIAL: Contacts: .010 (.25) Phosphor Bronze Insulator: High Temperature, Nylon 46, UL Rated 94V-0

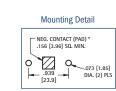


Thru Hole Mount









AVAILABLE ON TAPE AND REEL

		Surface	Mount			]						Thru Hol	e Mount
Ti	n-Nickel Pl	late	M	atte Tin Pla	ite			BATTERY REFERENCE				Tin-Nick	el Plate
CAT. NO.	CAT. NO.	<b>ON TAPE</b>	CAT. NO.	CAT. NO.	ON TAPE			6 VOLT	3 VOLT	Ì		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

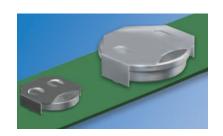


# THRU HOLE (THM) COIN CELL RETAINERS



- Snap-In legs maintain relative positioning prior and during soldering
- Compatible with wave soldering processes
- Thru hole solder legs provides excellent mechanical strength
- Lowest profile mounting as compared to coin cell holders
- Economical design allows for PCB pads to be used as negative contacts
   Tin Nickel plating provides low contact resistance and will hold up to high temperature lead free soldering
- · Battery can be easily replaced without any tools

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





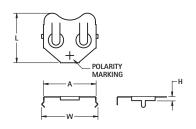
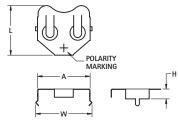


FIG. 1 - Compact



- Negative pad can be replaced with THM negative contact. See page 12.

Mounting Detail

70 0

A MIN

FIG. 2 - Low Profile

CAT. NO.	FIG.	A	Н	L	W	CELL DIA.	BATTERY REFERENCE
2997	2	.520 (13.2)	.235 (6.0)	.475 (12.1)	.585 (14.9)	11.6mm	SR43, 186, 386, A76, LR44, 357, MS76, PX76A, G-13, 303, V313
3001	2	.520 (13.2)	.118 (3.0)	.475 (12.1)	.585 (14.9)	12mm	CR1216, BR1220, CL1225, SR1120, D381, 391, 191
3013	2	.664 (16.9)	.156 (4.0)	.594 (15.1)	.723 (18.4)	16mm	BR1616, CR1612, CR1616, CR1620, CR1632
3027	1	.831 (21.1)	.085 (2.2)	.782 (19.9)	.890 (22.6)	20mm	BR2016, CR2016, DL2016
3003	2	.831 (21.1)	.156 (4.0)	.782 (19.9)	.890 (22.6)	20mm	BR2320, CL2330, CR2320, BR2325, CR2325, DL2325
3005	2	.939 (23.9)	.156 (4.0)	.832 (21.1)	1.004 (25.5)	23mm	BR2320, CL2330, CR2320, BR2325, CR2325, DL2325
3011	2	.939 (23.9)	.240 (6.1)	.819 (20.8)	1.004 (25.5)	23mm	CR2354, DL2354
3007	1	1.000 (25.4)	.156 (4.0)	.918 (23.3)	1.055 (26.8)	24mm	CR2430, DL2430
3009	2	1.000 (25.4)	.230 (5.8)	.890 (22.6)	1.059 (26.9)	24mm	CR2450, DL2450
3039	2	1.000 (25.4)	.336 (8.5)	.890 (22.6)	1.059 (26.9)	24mm	CR2477, DL2477
3047	2	1.227 (31.2)	.167 (4.2)	1.020 (25.9)	1.340 (34.0)	30mm	CR3032

# THRU HOLE (THM) ULTRA LOW PROFILE COIN CELL RETAINER

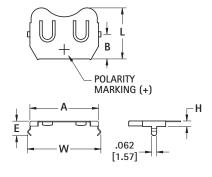


The Ultra Low Profile Coin Cell retainers are designed specifically for the most popular 20mm & 24mm coin cells. It will provide reliable contact as well as retain the coin cell with the minimum space needed. Ideal for small applications such as remote controls or active RFID tags.

- Slim design saves valuable board space
- Narrow face allows for quick and easy battery replacement
- Designed for specific batteries lowest height design

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







THM Negative contact not recommended for Ultra Low Profile Retainers

CAT. NO.	A	Н	L	W	CELL Dia.	BATTERY REFERENCE
3029	.831 (21.1)	.067 (1.7)	.618 (15.7)	.890 (22.6)	20mm	CR2012, DL2012
3035*	.835 (21.2)	.170 (4.3)	.600 (15.2)	.880 (22.3)	20mm	CR2032 also CR2025, CR2020
3033	1.000 (25.4)	.067 (1.7)	.681 (17.3)	1.055 (26.8)	24mm	CR2412, BR2412

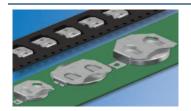
\* Nickel Plate



# SURFACE MOUNT (SMT) COIN CELL RETAINERS

- · Compatible with reflow soldering processes
- Solder tails located outside of retainer which facilitates visual inspection of solder joint
- Compatable with most vacuum and mechanical pick & place assembly system
- All conductive carrier tape meets ANSA/EIA-481 standards
- Economical design allows for PCB pads to be used as negative contacts
- Matte Tin Plate for lower soldering temperaturres. Ideal when other temperature sensitive components are being used
- Tin Nickel plating provides low contact resistance and will hold up to high temperature lead free soldering
- Dual spring contact assures battery will have proper contact with PCB
- Battery can be easily replaced without any tools

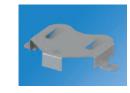
## SURFACE MOUNT (SMT)



## AVAILABLE ON TAPE AND REEL

All conductive polystyrene carrier tape meets ANSI/EIA-481 standards

MATERIAL: .010 (.25) Phosphor Bronze



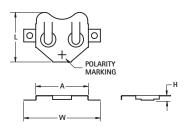


FIG. 1 - Compact

Pad Layout NEG. CONTACT (PAD) .156 [3.96] SQ. MIN. -w MIN-

\*SMT negative contact pads compact retainers.

Pad Layout NEG. CONTACT (PAD) .156 [3.96] SQ. MIN. F SQ. MIN.



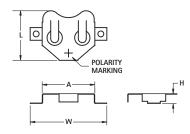


FIG. 2 - Low Profile

TIN-NICI	KEL PLATE	MATTE 1	TIN PLATE								
CAT. NO. BULK	ON TAPE & REEL	CAT. NO. BULK	ON TAPE & REEL	FIG.	A	Н	L	W	CELL DIA.	BATTERY Reference	TAPE & REEL SPEC'S
2996	2996TR	3096	3096TR	2	.520 (13.2)	.235 (6.0)	.475 (12.1)	.700 (17.8)	11.6mm	SR43, 186, 386, A76, LR44, 357, MS76, PX76A, G-13, 303, V313	32mm wide; 16mm pitch; 600/reel
3000	3000TR	3080	3080TR	2	.520 (13.2)	.125 (3.2)	.475 (12.1)	.745 (18.9)	12mm	CR1216, BR1220, CL1225, SR1120, D381, 391, 191	32mm wide; 16mm pitch; 1000/reel
3012	3012TR	3092	3092TR	2	.664 (16.9)	.156 (4.0)	.594 (15.1)	.914 (23.2)	16mm	BR1612, CR1616, CR1620, DL1632	44mm wide; 24mm pitch; 600/reel
3026	3026TR	3078	3078TR	1	.831 (21.1)	.085 (2.2)	.782 (19.9)	1.210 (30.7)	20mm	BR2016, CR2016, DL2016	44mm wide; 24mm pitch; 1000/reel
3002	3002TR	3082	3082TR	2	.831 (21.1)	.156 (4.0)	.782 (19.9)	1.210 (30.7)	20mm	BR2016, DL2020, CR2025, CR2032	44mm wide; 24mm pitch; 500/reel
3004	3004TR	3084	3084TR	2	.939 (23.9)	.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	2	.939 (23.9)	.240 (6.1)	.819 (20.8)	1.339 (34.0)	23mm	CR2354, DL2354	56mm wide; 32mm pitch; 200/reel
3006	3006TR	3086	3086TR	1	1.000 (25.4)	.156 (4.0)	.918 (23.3)	1.400 (35.6)	24mm	CR2430, DL2430	56mm wide; 32mm pitch; 400/reel
3008	3008TR	3088	3088TR	2	1.000 (25.4)	.230 (5.8)	.890 (22.6)	1.400 (35.6)	24mm	CR2450, DL2450	56mm wide; 32mm pitch; 200/reel

# SURFACE MOUNT (SMT) ULTRA LOW PROFILE COIN CELL RETAINER

# AVAILABLE ON TAPE AND REEL

Ultra Low Profile Coin Cell Retainers are designed specifically for the most popular coin cells. It will provide reliable contact as well as retain the coin cell with the minimum space needed. ideal for small applications such as remote controls or active RFID tags.

- Slim design saves valuable board space
- Narrow face allows for quick and easy battery replacement

1.227 (14.3) .167 (4.2) 1.020 (25.9) 1.627 (41.3) 30mm

· Designed for specific batteries - lowest height design

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

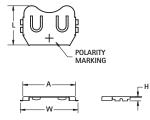
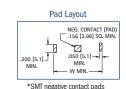


FIG. 3 - Ultra Low



56mm wide; 32mm pitch; 400/reel

Low Profile retainers.

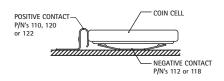
. PLATE	WALLE	IN PLATE								
N TAPE & REEL	CAT. NO. Bulk	ON TAPE & REEL	FIG.	A	Н	L	W	CELL DIA.	BATTERY Reference	TAPE & REEL SPEC'S
028TR	3038	3038TR	3	.831 (21.1)	.067 (1.7)	.618 (15.7)	.911 (23.1)	20mm	BR2012, CR2012, DL2012	44mm wide; 24mm pitch; 1000/reel
034TR*	3044*	3044TR*	3	.835 (21.2)	.160 (4.1)	.635 (16.1)	0.915 (23.1)	20mm	BR2016, DL2020, CR2025, CR2032	44mm wide; 24mm pitch; 1000/reel
032TR	3042	3042TR	3	1.000 (25.4)	.067 (1.7)	.681 (17.3)	1.080 (27.4)	24mm	BR2412, CR2412	44mm wide, 24mm pitch, 1000/reel
N Q O	TAPE REEL 28TR 34TR*	TAPE CAT. NO. BULK 028TR 3038 034TR* 3044*	TAPE   CAT. NO.   ON TAPE   REEL   BULK   & REEL	TAPE   CAT. NO.   ON TAPE   REEL   BULK   & REEL   FIG.	TAPE   CAT. NO.   ON TAPE   REEL   BULK   & REEL   FIG.   A    28TR   3038   3038TR   3   .831 (21.1)    34TR*   3044*   3044TR*   3   .835 (21.2)	TAPE   CAT. NO.   ON TAPE   REEL   BULK   & REEL   FIG.   A   H    28TR   3038   3038TR   3   .831 (21.1)   .067 (1.7)    34TR*   3044*   3044TR*   3   .835 (21.2)   .160 (4.1)	TAPE   CAT. NO.   ON TAPE   REEL   FIG.   A   H   L	TAPE   CAT. NO.   ON TAPE   REEL   FIG.   A   H   L   W	TAPE   CAT. NO.   ON TAPE   REEL   FIG.   A   H   L   W   DIA.	TAPE   CAT. NO.   ON TAPE   REEL   FIG.   A   H   L   W   DIA.   BATTERY   REFERENCE     128TR   3038   3038TR   3   .831 (21.1)   .067 (1.7)   .618 (15.7)   .911 (23.1)   20mm   BR2012, CR2012, DL2012     134TR*   3044*   3044TR*   3   .835 (21.2)   .160 (4.1)   .635 (16.1)   0.915 (23.1)   20mm   BR2016, DL2020, CR2025, CR2032

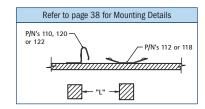
## SURFACE MOUNT (SMT) COIN CELL ENCLOSURE CONTACTS

- · Contacts for Enclosure cases with self contained battery compartments
- · Design facilitates easy battery access, removal & installation
- Suitable for industrial and consumer product applications
- Spring contacts adjust to variations in battery diameter for a dependable connection
- Posititye and Negative contacts can be used as a design pair or individually on a PCB
- · Accomodates cell diameters from 12mm to 30mm



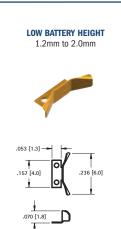
# AVAILABLE ON TAPE AND REEL MATERIAL: .006 (.15) Stainless Steel, Gold Plate (Flash)







	CONTACT SELECTION GUIDE		
BATTERY DIAMETER	BATTERY Reference	CAT. NO. REFERENCE	MOUNTING DETAIL
Accomodates	CR1212, CR1216, CR1220, CR1612, CR1616, CR1620	120 (Pos) & 118 (Neg)	See page 38
12mm to 16mm	CR1225, CR1625, CR1632	110 (Pos) & 118 (Neg)	See page 38
Accomodates	CR2012, CR2016, CR2020, CR2320, CR2412	120 (Pos) & 112 (Neg)	See page 38
20mm to 30mm	CR2025, CR2032, CR2325, CR2330, CR2430, CR3032	110 (Pos) & 112 (Neg)	See page 38
Lonin to domin	CR2050, CR2335, CR2354, CR2430, CR2440, CR2450, CR2477, CR3048	122 (Pos) & 112 (Neg)	See page 38



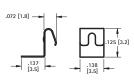


## CAT. NO. 120TR Tape & Reel

Tape & Reel Spec's: 16mm wide, 8mm pitch, 13 inch reel, 3000 pieces per reel

### POSITIVE **MEDIUM BATTERY HEIGHT** 2.0mm to 3.2mm





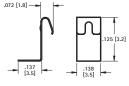
#### **CAT. NO. 110** Bulk

#### CAT. NO. 110TR Tape & Reel

Tape & Reel Spec's: 16mm wide, 8mm pitch, 13 inch reel, 2000 pieces per reel

#### TALL BATTERY HEIGHT 3.5mm to 7.7mm





### CAT. NO. 122 Bulk

AVAILABLE ON TAPE AND REEL

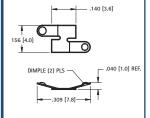
## CAT. NO. 122TR Tape & Reel

Tape & Reel Spec's: 16mm wide, 8mm pitch, 13 inch reel, 1000 pieces per reel

### NEGATIVE

#### **BATTERY DIAMETER** 12mm to 16mm





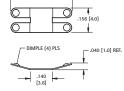
### CAT. NO. 118 Bulk

## CAT. NO. 118TR Tape & Reel

Tape & Reel Spec's: 24mm wide, 8mm pitch, 13 inch reel, 5000 pieces per reel

#### **BATTERY DIAMETER** 20mm to 30mm





#### CAT. NO. 112 Bulk

## CAT. NO. 112TR Tape & Reel

Tape & Reel Spec's: 24mm wide, 8mm pitch, 13 inch reel, 5000 pieces per reel

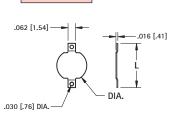
# SURFACE MOUNT (SMT) & THRU-HOLE (THM) NEGATIVE BATTERY CONTACTS



 Assures proper contact

Pad Lavout

[1.57] MIN. SQR. 



SMT COMPACT\*

BULK

2981

2982

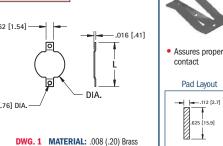
CAT. NO. ON TAPE

2983 2983TR

& REEL

2981TR

2982TR





# SMT SPRING CONTACT\* .112 [2.8] 031 [.78] DIA (3) PLS .625 [15.9] .127 [3.2]

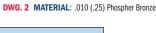
DWG. 2	WATERIAL.	.010 (.23)	Позрпе	DIVIIZ
TAPE & I	REEL SPEC	S		

16mm wide, 8mm pitch, 1500

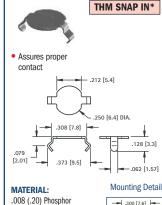
16mm wide, 12mm nitch, 1000

24mm wide, 16mm pitch, 1000

\*Note: Cannot be used with Cat. No. 3028, 3029, 3032, 3038, 3042, 3026, 3078



S
/7 reel
)/7 reel
)/13 reel



**CAT. NO. 2990** 

Bronze, Tin-Nickel Plate

300 [7.6] .073 [1.9] DIA. (2) PLS

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

CAT. NO. ON TAPE

2991TR

2992TR

2993TR

2991

2992

2993



DIA

.250 (6.4)

.186 (4.7)

.368 (9.4)

.289 (7.4)

.625 (15.9)