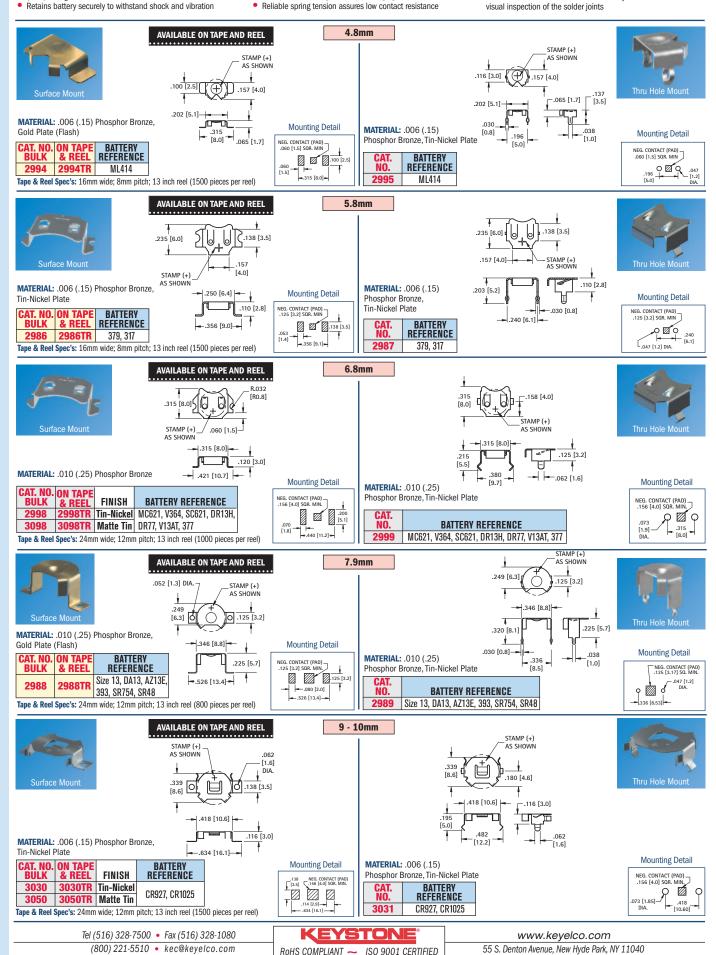
SURFACE MOUNT (SMT) & THRU HOLE (THM) BUTTON CELL RETAINERS

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
- THM legs maintain relative position during and after soldering Ideally suited for High Density packaging Reliable spring tension assures low contact resistance
- SMT solder tail with "flow-hole" design for increased joint strength Solder tail located outside of retainer body which facilitates visual inspection of the solder joints

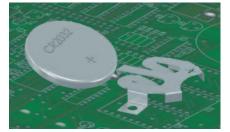


RoHS COMPLIANT ~ ISO 9001 CERTIFIED

(800) 221-5510 • kec@keyelco.com

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.

SMT

· Flow hole solder tail designed for increased joint strength

2894

2896

2898

2984TR

2986TR

.520 (13.2)

.670 (17.0)

.106 (2.7)

.171 (4.3)

· Compatible with most vacuum and mechanical pick and place assembly systems All conductive polystyrene carrier tape meets ANSI/EIA-481 standard

- · Compatible with all wave and reflow soldering processes
- 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

THM

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

CR1220

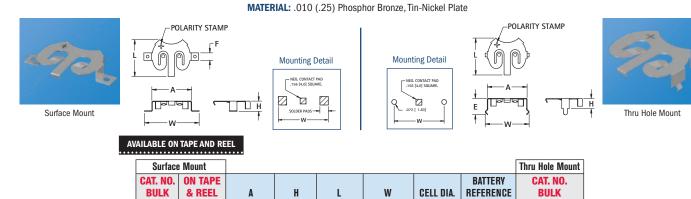
BR1632

CR2032

2895

2897

2899



.830 (21.1) .171 (4.3) .771 (19.6) 1.210 (30.7) 2988TR SURFACE MOUNT (SMT) & THRU-HOLE (THM) INSULATED RETAINERS



20mm CELLS

.494 (12.5)

.620 (15.8)

Low profile

.700 (17.8)

.920 (23.4)

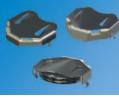
 Battery release ports for easy battery replacement Refer to pages 8 & 11 for a complete offering of

12mm

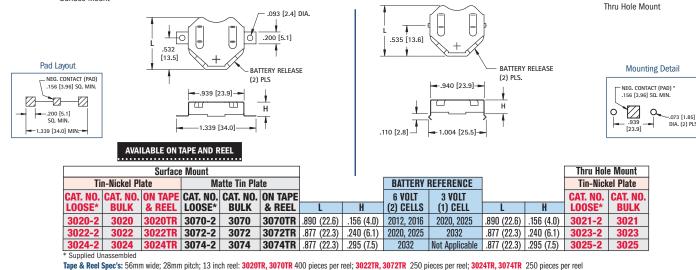
16mm

20mm

coin cell retainers



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



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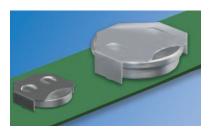
www.keyelco.com 55 S. Denton Avenue, New Hyde Park, NY 11040 **2mm to 20mm COIN CELL RETAINER**

THRU HOLE (THM) COIN CELL RETAINERS

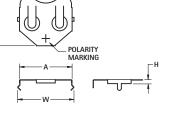


- Snap-In legs maintain relative positioning prior and during soldering
- Compatible with wave soldering processes
- Thru hole solder legs provides excellent mechanical strength
- Lowest profile mounting as compared to coin cell holders
- Economical design allows for PCB pads to be used as negative contacts
 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









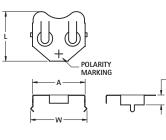




FIG. 2 - Low Profile

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

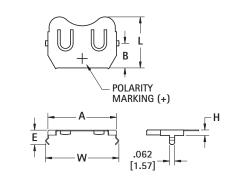


The Ultra Low Profile Coin Cell retainers are designed specifically for the most popular 20mm & 24mm coin cells. It will provide reliable contact as well as retain the coin cell with the minimum space needed. Ideal for small applications such as remote controls or active RFID tags.

- 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





Mounting Detail

NEG. CONTACT (PAD) .156 [3.96] SQ. MIN. A MIN. .073 [1.85] DIA (2) PLS.



CAT. NO.	A	H	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						

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SURFACE MOUNT (SMT) COIN CELL RETAINERS

SURFACE MOUNT (SMT)

AVAILABLE ON TAPE AND REEL • All conductive polystyrene carrier tape meets ANSI/EIA-481 standards MATERIAL: .010 (.25) Phosphor Bronze

Pad Lavout

F SQ. MIN.--

w MIN-

not recommended for

compact retainers.

*SMT negative contact pads

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.235 (6.0)

.125 (3.2)

.156 (4.0)

.085 (2.2)

.156 (4.0)

.156 (4.0)

.240 (6.1)

.156 (4.0)

.230 (5.8)

.167 (4.2)

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

0

.475 (12.1)

.475 (12.1)

.594 (15.1)

.782 (19.9)

.782 (19.9)

.832 (21.1)

.819 (20.8)

.918 (23.3)

.890 (22.6)

1.020 (25.9)

· Compatible with reflow soldering processes

Б

TIN-NICKEL PLATE

ON TAPE

& REEL

2996TR

3000TR

3012TR

3026TR

3002TR

3004TR

3010TR

3006TR

3008TR

3046TR

CAT. NO.

BIII K

2996

3000

3012

3026

3002

3004

3010

3006

3008

3046

- 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

POLARITY

MARKING

MATTE TIN PLATE

CAT. NO. ON TAPE

& REEL

3096TR

3080TR

3092TR

3078TR

3082TR

3084TR

3090TR

3086TR

3088TR

BIII K

3096

3080

3092

3078

3082

3084

3090

3086

3088

FIG. 1 - Compact

.520 (13.2)

.520 (13.2)

.664 (16.9)

.831 (21.1)

.831 (21.1)

.939 (23.9)

.939 (23.9)

1.000 (25.4)

1.000 (25.4)

1.227 (14.3)

FIG.

2

2

2

1

2

2

2

1

2

2

- 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

lO

FIG. 2 - Low Profile

BATTERY

REFERENCE

PX76Å, G-13, 303, V313

BR2016, CR2016, DL2016

D381, 391, 191

CR2354, DL2354

CR2430, DI 2430

CR2450, DL2450

CR3032

Pad Lavout

NEG. CONTACT (PAD)

.156 [3.96] SQ. MIN.

*Negative pad can be replaced

CELL DIA.

11.6mm

12mm

16mm

20mm

20mm

23mm

23mm

24mm

24mm

30mm

F SQ. MIN.

with SMT negative contact.

See page 12.

W

.700 (17.8)

.745 (18.9)

.914 (23.2)

1.210 (30.7)

1.210 (30.7)

1.339 (34.0)

1.339 (34.0)

1,400 (35.6)

1.400 (35.6)

1.627 (41.3)

W MIN

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0 POI ARITY MARKING TAPE & REEL SPEC'S SR43, 186, 386, A76, LR44, 357, MS76, 32mm wide; 16mm pitch; 600/reel CR1216, BR1220, CL1225, SR1120, 32mm wide: 16mm pitch: 1000/reel BR1612, CR1616, CR1620, DL1632 44mm wide: 24mm pitch: 600/reel 44mm wide; 24mm pitch; 1000/reel BR2016, DL2020, CR2025, CR2032 44mm wide; 24mm pitch; 500/reel BR2320, CL2325, CR2330, DL2335 56mm wide; 32mm pitch; 400/reel 56mm wide; 32mm pitch; 200/reel 56mm wide: 32mm pitch: 400/reel 56mm wide: 32mm pitch: 200/reel 56mm wide; 32mm pitch; 400/reel

SURFACE MOUNT (SMT) ULTRA LOW PROFILE COIN CELL RETAINER

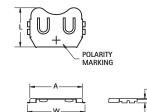


AVAILABLE ON TAPE AND REEL

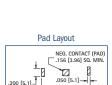
Ultra Low Profile Coin Cell Retainers are designed specifically for the most popular coin cells. It will provide reliable contact as well as retain the coin cell with the minimum space needed. Ideal for small applications such as remote controls or active RFID tags.

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

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









MIN

MIN

w MI

TIN-NIG	LEL PLAIE	L PLAIE MAITE IIN PLAIE									
CAT. NO. BULK	ON TAPE & REEL	CAT. NO. BULK	ON TAPE & REEL	FIG.	A	H	L	w	CELL DIA.	BATTERY Reference	TAPE & REEL SPEC'S
3028	3028TR	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
3034*	3034TR*	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
3032	3032TR	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
*Nickel Plate											

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6mm to 30mm COIN CELI RETAINE

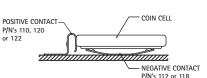
SURFACE MOUNT (SMT) COIN CELL ENCLOSURE CONTACTS

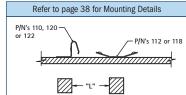
- · Contacts for Enclosure cases with self contained
- battery compartments • Design facilitates easy battery access, removal & installation
- Suitable for industrial and consumer product applications · Spring contacts adjust to variations in battery diameter for a dependable connection

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

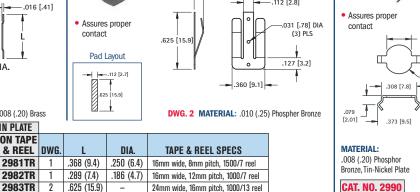
- · Posititve and Negative contacts can be used as a design pair or individually on a PCB
- · Accomodates cell diameters from 12mm to 30mm







		P/N's 112 or		F771 F773								
		CONTACT SELECTION GUIDE										
	BATTERY DIAMETER	BATTERY Referenc	CAT. NO. REFERENCE	MOUNTING DETAIL								
	Accomodates	CR1212, CR1216, CR1220, CR16	120 (Pos) & 118 (Neg)	See page 38								
	12mm to 16mm	CR1225, CR1625, (110 (Pos) & 118 (Neg)	See page 38								
	Accomodates	CR2012, CR2016, CR2020, (CR2025, CR2032, CR2325, CR23	120 (Pos) & 112 (Neg) 110 (Pos) & 112 (Neg)	See page 38 See page 38								
	20mm to 30mm	CR2050, CR2335, CR2354, CR2430, CR24	122 (Pos) & 112 (Neg)	See page 38								
	DOCITIVE			NEGATIVE								
LOW BATTERY HEIGHT	POSITIVE MEDIUM BATTERY HEIGHT	TALL BATTERY HEIGHT	BATTERY DIAMETER	NEGATIVE BATTERY DIAN	IETED							
1.2mm to 2.0mm	2.0mm to 3.2mm	3.5mm to 7.7mm	12mm to 16mm	20mm to 30								
				5	0							
.053 [1.3] - .157 [4.0] .236 [6.0] .236 [6.0] .072 [1.8] - .072 [1.8] .125 [3.2] .12			DIMPLE (2) PLS	LE (2) PLS040 [1.0] REF.								
CAT. NO. 120 Bulk	CAT. NO. 110 Bulk	CAT. NO. 122 Bulk	CAT. NO. 118 Bulk	CAT. NO. 112 Bulk								
CAT. NO. 120TR Tape & Reel	CAT. NO. 110TR Tape & Reel	CAT. NO. 122TR Tape & Reel	CAT. NO. 118TR Tape & Reel	CAT. NO. 112TR Tape								
Tape & Reel Spec's: 16mm wide,8mm pitch, 13 inch reel,	Tape & Reel Spec's: 16mm wide, 8mm pitch, 13 inch reel,	Tape & Reel Spec's: 16mm wide, 8mm pitch, 13 inch reel,	Tape & Reel Spec's: 24mm wide 8mm pitch, 13 inch reel,	e, Tape & Reel Spec's: 24 8mm pitch, 13 inch ree								
3000 pieces per reel	2000 pieces per reel	1000 pieces per reel	5000 pieces per reel	5000 pieces per reel								
SURFACE MO	DUNT (SMT) & T	'HRU-HOLE (THM)) NEGATIVE BA	TTERY CONT	ACTS							
	AVAILA	ABLE ON TAPE AND REEL										
SMT .062 [1.5		SMT SPF		ТНМ	I SNAP IN*							
Assures proper contact Pad Layout		Assures proper contact .625 [15.9] Pad Layout	031 [.78] DIA (3) PLS	Assures proper contact .212 [5.4	ş]							
.062	DIA.		.127 [3.2]	.250 [6	.4] DIA.							
					.128 [3.3]							





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

TIN-NICKEL PLATE | MATTE TIN PLATE

CAT. NO. ON TAPE

& REEL

2991TR

2992TR

2993TR

BULK

2991

2992

2993

DWG. 1 MATERIAL: .008 (.20) Brass

BULK

2981

2982

CAT. NO. ON TAPE

2983 2983TR

2981TR

2982TR

1

2



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-.062 [1.57]

Mounting Detail

- 300 [7.6]

2 .073 [1.9] DIA. (2) PLS Ó