

# COIN CELL PC BATTERY HOLDERS

## 20mm to 30mm Sizes



**SINGLE CELL HOLDER  
(3-VOLT)**

**DUAL CELL HOLDER  
(6-VOLT)**

Single and Dual "Printed Circuit" Cell Holders for Lithium Coin Cells. Designed for easy battery replacement. Will accommodate diameters from 12mm to 30mm and heights from 1.6mm to 7.7mm. Some holders will accept more than two cells if they fall within the heights specified.

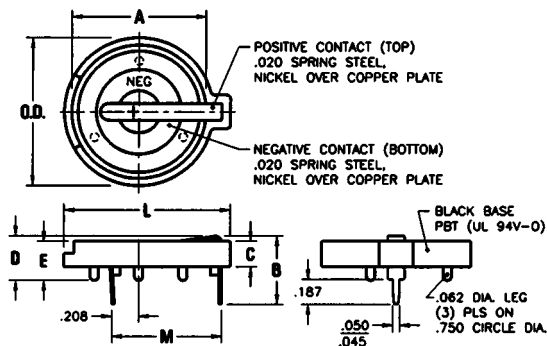
### IDEALLY SUITED FOR...

- Duracell, Eveready, Panasonic, Ray-O-Vac, Sanyo, Varta, Toshiba, Seiko and other major battery manufacturers
- Computer memory, power transfer and back-up systems
- Video and telecommunications power back-up
- Preprogrammed video and electronic games
- Microprocessors and Microcomputer memory hold
- Notebook and laptop applications
- Emergency power systems
- Industrial and commercial security and alarm systems
- Communications power sources
- Miniaturized battery power devices

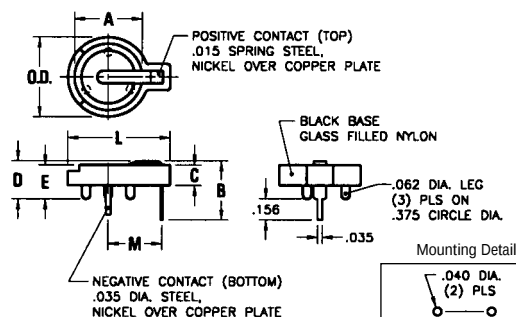
### DESIGN ADVANTAGES...

- Low profile for high density packaging
- Reliable spring tension assures low contact resistance
- Retains battery securely to withstand shock and vibration
- Unique notched slots assure quick and easy battery insertion and replacement
- Base material UL Rated 94V-0. Impervious to most industrial solvents
- Operating temperature range: -60°F to +293°F (-50°C to +145°C)
- Advanced air-flow design pattern enhances air circulation around battery
- Nickel-over-copper plated spring steel contacts feature clearly marked polarities to help guard against improper insertion

## 12mm to 16mm & 1/3 "N" Sizes



**DWG. 1**



**DWG. 2**

| CAT. NO. | DWG. NO. | NO. OF CELLS | DIMENSIONS |      |      |      |      |       |       |      | CELL   | BATTERY CROSS REFERENCE                                                                |  |
|----------|----------|--------------|------------|------|------|------|------|-------|-------|------|--------|----------------------------------------------------------------------------------------|--|
|          |          |              | A          | B    | C    | D    | E    | L     | O.D.  | M    |        | DURACELL, EVEREADY, PANASONIC, RAY-O-VAC<br>SANYO, SONY, SEIKO, TOSHIBA, VARTA         |  |
| 499      | 2        | 1            | .495       | .695 | .250 | .580 | .350 | .750  | .593  | .393 | "1/3N" | DL 1/3N, K58L, CR 1/3N                                                                 |  |
| 500      | 2        | 1            | .495       | .435 | .150 | .280 | .250 | .750  | .593  | .393 | 12mm   | BR1216, CR1216, BR1220, CL1220, CR1220, BR1225                                         |  |
| 501      | 2        | 2            | .495       | .505 | .250 | .380 | .350 | .750  | .593  | .393 | 16mm   | BR1616, CR1612, CR1616, CR1620, CR1632                                                 |  |
| 502      | 2        | 1            | .635       | .505 | .150 | .312 | .250 | .897  | .750  | .463 | 20mm   | BR2016, CR2016, DL2016, BR2020, CL2020, BR2025, CR2025, DL2025, BR2032, CR2032, DL2032 |  |
| 103      | 1        | 1            | .796       | .513 | .195 | .335 | .295 | 1.130 | .896  | .807 | 23mm   | BR2320, CL2320, CR2320, BR2325, CR2325, DL2325, BR2330, CL2330, BR2335, CR2354**       |  |
| 106      | 1        | 1            | .796       | .513 | .195 | .335 | .295 | 1.219 | 1.093 | .807 | 24mm   | CR2430, DL2430, CR2450*, DL2450*, CR2477†                                              |  |
| 1026     | 1        | 2            | .796       | .630 | .312 | .452 | .412 | 1.219 | 1.093 | .807 | 30mm   | BR3032                                                                                 |  |
| 104      | 1        | 1            | .911       | .513 | .195 | .335 | .295 | 1.150 | 1.000 | .807 |        |                                                                                        |  |
| 107      | 1        | 1            | .911       | .513 | .195 | .335 | .295 | 1.219 | 1.093 | .807 |        |                                                                                        |  |
| 1027     | 1        | 2            | .911       | .630 | .312 | .452 | .412 | 1.219 | 1.093 | .807 |        |                                                                                        |  |
| 105      | 1        | 1            | .985       | .513 | .195 | .335 | .295 | 1.219 | 1.093 | .807 |        |                                                                                        |  |
| 1025     | 1        | 2            | .985       | .630 | .312 | .452 | .412 | 1.219 | 1.093 | .807 |        |                                                                                        |  |
| 1025-7   | 1        | 1            | .985       | .681 | .312 | .503 | .412 | 1.219 | 1.093 | .807 |        |                                                                                        |  |
| 301      | 1        | 1            | 1.187      | .513 | .195 | .335 | .295 | 1.425 | 1.297 | .807 |        |                                                                                        |  |

\* For Cat. No. 1025 (1) cell only. \*\* For Cat. No. 1027 (1) cell only. † For Cat. No. 1025-7 only.

# COIN CELL BATTERY HOLDERS

Designers' Choice

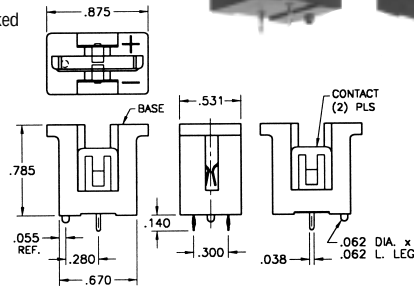


## VERTICAL 20mm COIN CELL HOLDERS

### COMPACT

This space saving vertical design features a rugged, lightweight body that mounts squarely and securely on PC boards for easy installation and replacement of batteries. Reliable spring tension assures low contact resistance.

- Accepts all major manufacturers' 20mm diameter batteries
- Molded notch prevents improper insertion of 2032 size cells
- Space saving design for high density packaging
- Retains cells securely, withstands shock and vibration
- Polarity clearly marked
- Mounts securely for wave soldering
- Temp range -60°F to +293°F (50°C to +145°C)



Mounting Detail

### MATERIAL

**Contacts:** .012 Spring Steel, Tin over Nickel Plate

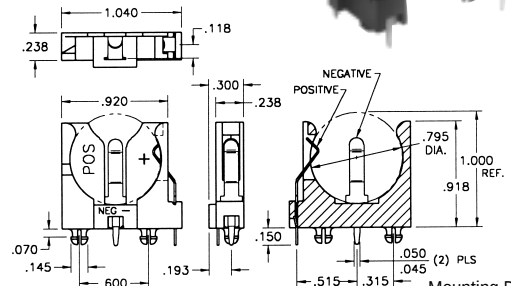
**Base:** PBT, UL Rated 94V-0

**CAT. NO. 1067**

### SLIMLINE

A "unique" space saving design. The battery is installed vertically from the top. The contacts of this holder are polarized to assure proper continuity and circuit protection.

- Polarized holder
- Mounts securely for wave soldering
- Reliable spring tension assures low contact resistance
- Retains 20mm batteries securely to withstand shock and vibration
- Temp range -60°F to +293°F (50°C to +145°C)



Mounting Detail

### MATERIAL

**Contacts:** .016 Spring Steel, Tin over Nickel Plate

**Base:** PBT, UL Rated 94V-0

**CAT. NO. 1065**

## COMPACT 20mm COIN CELL HOLDER



- Suitable for 2025 and 2032 cells
- "Pop-in" design using minimum space
- Finger pressure lever disengages battery
- Reliable spring tension assures low contact resistance
- Retains batteries securely to withstand shock and vibration
- Temp range -60°F to +293°F (50°C to +145°C)

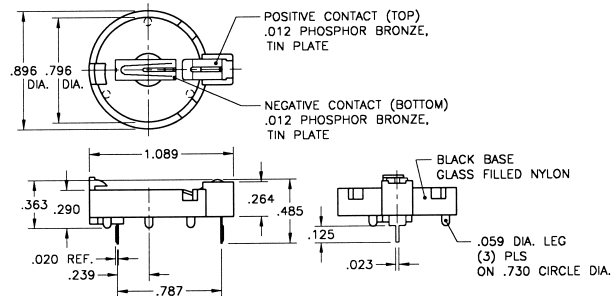
### MATERIAL

**Contacts:** .012 Phosphor Bronze, Tin Plate

**Base:** Glass Filled Nylon, UL Rated 94V-0

**CAT. NO. 1066**

The "Ultimate" in space saving design. This 20mm coin cell holder allows "pop-in" entry of batteries using the minimum amount of space. Finger pressure lever allows batteries to disengage from holder.



Mounting Detail

## SURFACE MOUNT COIN CELL HOLDERS



Available on Tape and Reel

### SMT Design - Holders for 20mm and 23mm Lithium Coin Cell Batteries

- Temp. range -60°F to +540°F (-50°C to +282°C)
- Ideal for memory back-up applications
- Polarity clearly marked (+)
- UL approved material, 94V-0
- Rugged construction, light weight
- Compatible with vacuum and mechanical pick & place assembly systems
- Low profile for high density packaging
- SMT solder tail with "Flow-Hole" design for increased joint strength
- Viewable solder tails assures reliable joint inspection
- Safe for all soldering & reflow operations
- All conductive polystyrene carrier tape meets ANSI/EIA - 481 standard

### SMALL PAD PATTERN

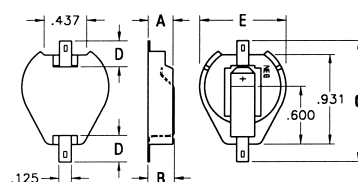
| CAT. NO. | ON TAPE | CELLS | A    | B    | C     | D    | E     | CELL | BATTERY                 |
|----------|---------|-------|------|------|-------|------|-------|------|-------------------------|
| 1061     | 1061TR  | 1     | .256 | .290 | 1.015 | .156 | .896  | 20mm | 2016*, 2020, 2025, 2032 |
| 1062     | 1062TR  | 2     | .375 | .406 | 1.015 | .156 | .896  | 20mm | 2016*, 2020, 2025, 2032 |
| 1071     | 1071TR  | 1     | .256 | .290 | 1.015 | .156 | 1.000 | 23mm | 2320, 2325, 2330        |

\*Cat. No. 1061 (1 or 2 cells); Cat. No. 1062 (3 cells)

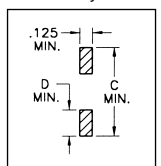
### LARGE PAD PATTERN

| CAT. NO. | ON TAPE | CELLS | A    | B    | C     | D    | E    | CELL | BATTERY                 |
|----------|---------|-------|------|------|-------|------|------|------|-------------------------|
| 1063     | 1063TR  | 1     | .256 | .290 | 1.250 | .278 | .896 | 20mm | 2016*, 2020, 2025, 2032 |
| 1064     | 1064TR  | 2     | .375 | .406 | 1.250 | .278 | .896 | 20mm | 2016*, 2020, 2025, 2032 |
| 1073     | 1073TR  | 1     | .256 | .290 | 1.250 | .278 | 1.00 | 23mm | 2320, 2325, 2330        |

\*Cat. No. 1063 (1 or 2 cells); Cat. No. 1064 (3 cells)



Pad Layout

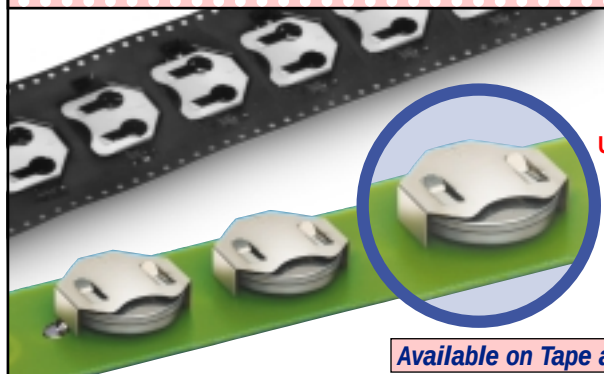


**MATERIAL:** Contacts: .015 Steel, Tin Plate Base: Nylon, Stanyl-46

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

# COIN CELL RETAINERS & HOLDERS

## SURFACE & THRU HOLE MOUNT COIN CELL RETAINER CONTACTS



**ULTRA-LOW  
PROFILE!**

**Available on Tape and Reel**

### COMPACT CONTACTS

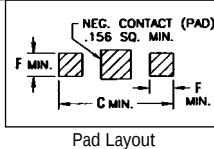
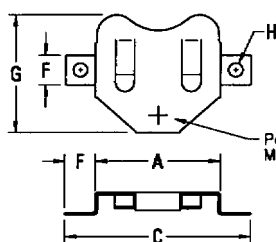
Economical and reliable retainer contacts are designed for quick and easy battery installation and replacement. Perfect for memory back-up applications. Surface and thru hole mount retainer contacts are available for 6.8mm to 24mm lithium coin cell batteries.

- Low profile for densely packed PCBs
- Retains cell securely, withstands shock & vibrations
- Reliable dual spring contacts assure low contact resistance
- Polarity clearly marked (+)
- Stable thru mount legs for increased strength
- Balanced & lightweight for reliable pick-up & placement
- Compatible with vacuum and mechanical pick & place assembly systems
- "Flow-Hole" SMT solder tail design for increased joint strength
- Viewable solder tails assures reliable joint inspection
- All conductive polystyrene carrier tape meets ANSI/EIA - 481 standard

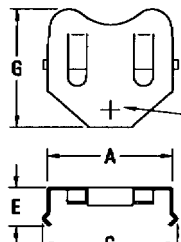
**New**



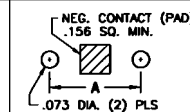
For 6.8mm Dia. Button Cell



Pad Layout



Mounting Detail



Mounting Detail

Also Available:  
Optional negative  
bottom contact.

(Cat. No. 2990, see page 9)

**DWG. 1 - SURFACE MOUNT (SMT)**

**MATERIAL:** .010 Phosphor Bronze, Nickel Plate

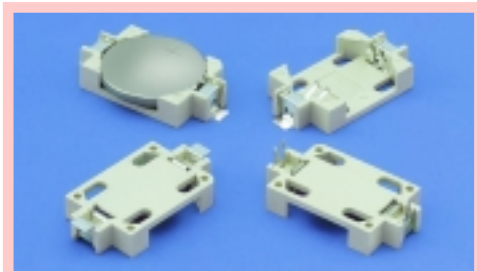
**DWG. 2 - THRU HOLE MOUNT (THM)**

**MATERIAL:** .010 Phosphor Bronze, Nickel Plate

| CAT. NO. | ON TAPE & REEL | DWG. NO. | MTG. TYPE | A     | B    | C     | D    | E    | F           | G    | H DIA. | CELL DIA. | BATTERY REFERENCE                                                                      | TAPE & REEL SPEC'S                                         |
|----------|----------------|----------|-----------|-------|------|-------|------|------|-------------|------|--------|-----------|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| 2998     | 2998TR         | 1        | SMT       | .315  | .197 | .421  | .114 | —    | .070 × .200 | .315 | .064   | 6.8mm     | MC621, V364, SC621                                                                     | 24mm wide; 12mm pitch; 13 inch (1250 pieces per reel)      |
| 3000     | 3000TR         | 1        | SMT       | .520  | .281 | .745  | .125 | —    | .125        | .500 | .047   | 12mm      | BR1216, CR1216, BR1220, CL1220, CR1220, BR1225                                         | 32mm wide; 16mm pitch; 13 inch reel (1000 pieces per reel) |
| 3001     | —              | 2        | THM       | .520  | .281 | .585  | .118 | .210 | .062        | .500 | —      | 16mm      | BR1616, CR1616, CR1620, CR1632                                                         | 44mm wide; 24mm pitch; 13 inch reel (600 pieces per reel)  |
| 3012     | 3012TR         | 1        | SMT       | .664  | .250 | .914  | .156 | —    | .125        | .594 | .047   | 20mm      | BR2016, CR2016, DL2016, BR2020, CL2020, BR2025, CR2025, DL2025, DR2032, CR2032, DL2032 | 44mm wide; 24mm pitch; 13 inch reel (500 pieces per reel)  |
| 3002     | 3002TR         | 1        | SMT       | .831  | .371 | 1.210 | .156 | —    | .200        | .775 | .093   | 23mm      | BR2320, CL2330, CR2320, BR2325, CR2325, DL2325                                         | 56mm wide; 32mm pitch; 13 inch reel (400 pieces per reel)  |
| 3003     | —              | 2        | THM       | .831  | .371 | .890  | .145 | .265 | .062        | .775 | —      | 23mm      | CR2354, DL2354                                                                         | 56mm wide; 32mm pitch; 13 inch reel (200 pieces per reel)  |
| 3004     | 3004TR         | 1        | SMT       | .939  | .371 | 1.339 | .145 | —    | .200        | .939 | .093   | 24mm      | CR2430, DL2430                                                                         | 56mm wide; 32mm pitch; 13 inch reel (400 pieces per reel)  |
| 3005     | —              | 2        | THM       | .939  | .371 | 1.004 | .145 | .256 | .062        | .939 | —      | 24mm      | CR2450, DL2450                                                                         | 56mm wide; 32mm pitch; 13 inch reel (200 pieces per reel)  |
| 3010     | 3010TR         | 1        | SMT       | .939  | .371 | 1.339 | .240 | —    | .200        | .819 | .093   | 24mm      | —                                                                                      | —                                                          |
| 3011     | —              | 2        | THM       | .939  | .371 | 1.004 | .240 | .351 | .062        | .819 | —      | 24mm      | —                                                                                      | —                                                          |
| 3006     | 3006TR         | 1        | SMT       | 1.000 | .371 | 1.400 | .156 | —    | .200        | .918 | .093   | 24mm      | —                                                                                      | —                                                          |
| 3007     | —              | 2        | THM       | 1.000 | .371 | 1.065 | .145 | .265 | .062        | .918 | —      | 24mm      | —                                                                                      | —                                                          |
| 3008     | 3008TR         | 1        | SMT       | 1.000 | .500 | 1.400 | .230 | —    | .200        | .890 | .093   | 24mm      | —                                                                                      | —                                                          |
| 3009     | —              | 2        | THM       | 1.000 | .500 | 1.059 | .230 | .350 | .062        | .890 | —      | 24mm      | —                                                                                      | —                                                          |

## LOW PROFILE SURFACE & THRU HOLE MOUNT COIN CELL HOLDERS

Designed for quick and easy installation and replacement of 2032 coin cell lithium batteries. The contacts of these holders are polarized to assure proper continuity and circuit protection.



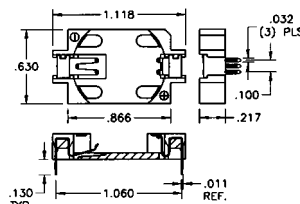
- Polarized Holder
- Retains cell securely to withstand shock and vibration
- Reliable dual spring contacts assure low contact resistance

- Low Profile for densely packaged PCB's
- Compatible with vacuum and mechanical pick & place assembly systems
- Conductive polystyrene carrier tape meets ANSI/EIA - 481 standard

### MATERIAL

Contacts: .006 Phosphor Bronze, Electro-Solder over Nickel Plate

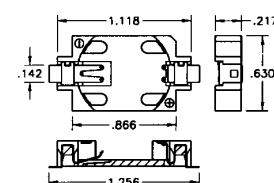
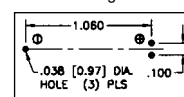
Base: Glass Filled LCP, UL Rated 94V-0



**CAT. NO. 1059 (Bulk)**

### Thru Hole Mount

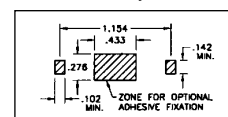
Mounting Detail



**CAT. NO. 1060 (Bulk)**

### Surface Mount

Pad Layout



**CAT. NO. 1060TR (Tape & Reel)**

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