

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

## DESIGN ADVANTAGES...

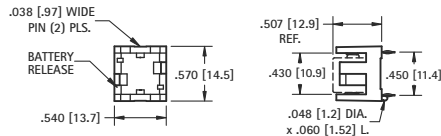
- Reliable spring tension assures low contact resistance
- Retains battery securely to withstand shock and vibration
- Base material UL Rated 94V-0. Impervious to most industrial solvents
- Operating temperature range: -60°F to +293°F (-50°C to +145°C)

## 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
- PC/104 application

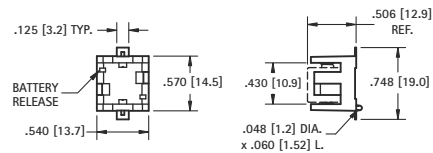


THRU HOLE MOUNT



1/3N

AVAILABLE ON TAPE AND REEL



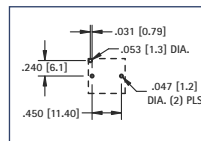
SURFACE MOUNT

## MATERIAL:

Base: High Temperature Nylon 46, UL Rated 94V-0  
Contacts: .012 (.30) Phosphor Bronze, Tin Plate

| CAT. NO. | CELLS | BATTERY REFERENCE                       |
|----------|-------|-----------------------------------------|
| 503      | 1     | DL1/3N, K58L, CR1/3N                    |
|          | 2     | SR44, 357, MS76, G-13, 303, V313, PX76A |

## Mounting Detail



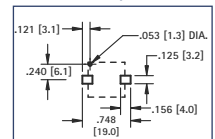
## MATERIAL:

Base: High Temperature Nylon 46, UL Rated 94V-0  
Contacts: .012 (.30) Phosphor Bronze, Gold Plate (Flash)

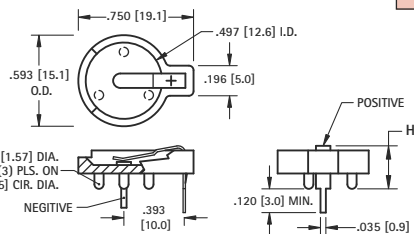
| CAT. NO. BULK | ON TAPE & REEL | CELLS | BATTERY REFERENCE                       |
|---------------|----------------|-------|-----------------------------------------|
| 498           | 498TR          | 1     | DL1/3N, K58L, CR1/3N                    |
|               |                | 2     | SR44, 357, MS76, G-13, 303, V313, PX76A |

Tape & Reel Spec's: 44mm wide; 20mm pitch; 13 inch reel (200 pieces per reel)

## Pad Layout

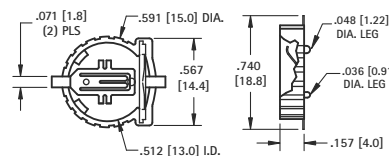


THRU HOLE MOUNT



12mm

AVAILABLE ON TAPE AND REEL



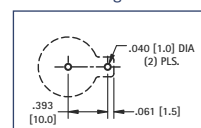
SURFACE MOUNT

## MATERIAL:

Base: PBT, UL Rated 94V-0  
Positive Contact: .015 (.38) Spring Steel, Tin-Nickel Plate  
Negative Contact: .035 (.89) Dia. Steel, Tin-Nickel Plate

| CAT. NO. | HEIGHT (H) | CELLS | BATTERY REFERENCE              |
|----------|------------|-------|--------------------------------|
| 500      | .280 (.71) | 1     | BR1212, CR1216, CL1220, CR1225 |
| 501      | .380 (.97) | 2     | BR1212, CR1216, CL1220, CR1225 |

## Mounting Detail



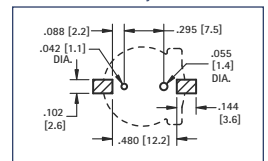
## MATERIAL:

Base: Glass Filled PPS, UL Rated 94V-0  
Contacts: .008 (.20) Phosphor Bronze, Gold Plate (Flash)

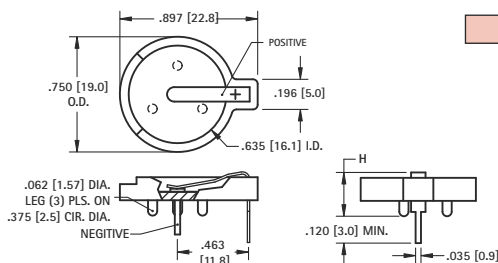
| CAT. NO. BULK | ON TAPE & REEL | CELLS | BATTERY REFERENCE |
|---------------|----------------|-------|-------------------|
| 1056          | 1056TR         | 1     | CR1220, BR1220    |

Tape & Reel Spec's: 32mm wide; 20mm pitch; 13 inch reel (500 per reel)

## Pad Layout

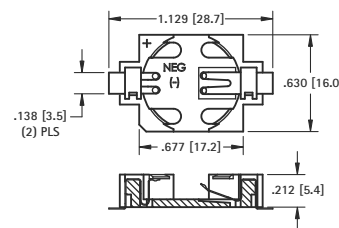


THRU HOLE MOUNT



16mm

AVAILABLE ON TAPE AND REEL



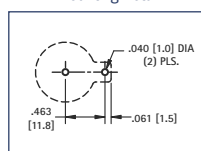
SURFACE MOUNT

## MATERIAL:

Base: Glass Filled LCP, UL Rated 94V-0  
Positive Contact: .015 (.38) Spring Steel, Tin-Nickel Plate  
Negative Contact: .035 (.89) Dia. Steel, Tin-Nickel Plate

| CAT. NO. | HEIGHT (H) | CELLS | BATTERY REFERENCE      |
|----------|------------|-------|------------------------|
| 502      | .285 (.73) | 1     | CR1612, CL1616, CL1620 |
|          |            | 2     | CR1612                 |
| 502-3    | .330 (.84) | 1     | BR1625, CR1632         |
|          |            | 2     | BR1616, CR1620, CL1620 |

## Mounting Detail



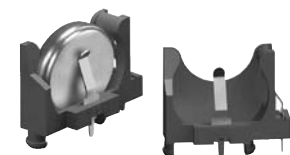
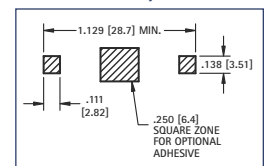
## MATERIAL:

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

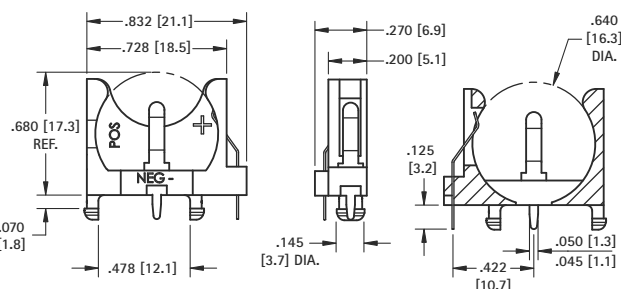
| CAT. NO. BULK | ON TAPE & REEL | CELLS | BATTERY REFERENCE |
|---------------|----------------|-------|-------------------|
| 504           | 504TR          | 1     | BR1625, CR1632    |

Tape & Reel Spec's: 44mm wide; 24mm pitch; 13 inch reel (450 per reel)

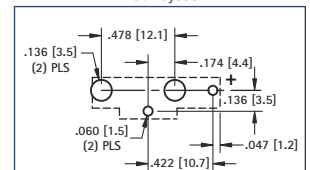
## Pad Layout



16mm VERTICAL



## Pad Layout



## MATERIAL:

Base: PBT, UL Rated 94V-0  
Contacts: .010 (.25) Steel, Tin-Nickel Plate  
Battery Reference: (1) cell: BR1612, CR1616, CL1620, CR1625, BR1632

CAT. NO. 1069

# 20mm THRU-HOLE MOUNT COIN CELL HOLDERS

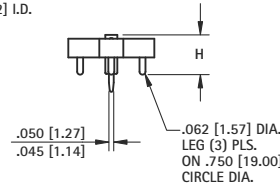
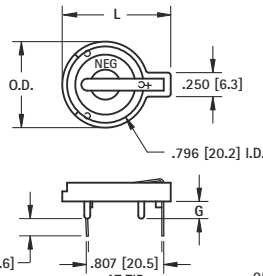


- Advanced air-flow design enhances air circulation around battery
- Reliable spring tension assures low contact resistance
- Unique notched slots assure quick and easy battery insertion and replacement
- Retains battery securely to withstand shock and vibration
- PBT base material UL rated 94V-0. Impervious to most industrial solvents
- Operating temperature range:  
-60°F to +293°F (-50°C to +145°C)

## MATERIAL:

Contacts: .020 (.50) Spring Steel, Tin-Nickel Plate

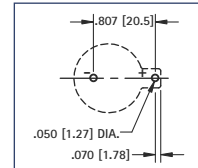
Base: PBT, UL Rated 94V-0



- **Cat. No. 101** is designed to maximize PC Board Capacity
- Unique raised mounting design allows components to be placed underneath the holder
- Ideal when board space is more important than board height; such as PC/104 applications

| CAT. NO.    | G          | H           | L            | O.D.         | NO. OF CELLS                              | BATTERY REFERENCE                                                      |
|-------------|------------|-------------|--------------|--------------|-------------------------------------------|------------------------------------------------------------------------|
| <b>103</b>  | .100 (2.5) | .335 (8.5)  | 1.130 (28.7) | .896 (22.8)  | (1) cell (any 20mm)<br>(2) 2012, (2) 2016 | BR2012, CR2012, CR2016, CL2016, DL2020, CL2025, BR2025, CR2032, CL2032 |
| <b>101</b>  | .179 (4.6) | .414 (10.5) | 1.130 (28.7) | .896 (22.8)  | (1) cell (any 20mm)<br>(2) 2012, (2) 2016 | BR2012, CR2012, CR2016, CL2016, DL2020, CL2025, BR2025, CR2032, CL2032 |
| <b>106</b>  | .100 (2.5) | .335 (8.5)  | 1.219 (31.0) | 1.093 (27.8) | (1) cell (any 20mm)<br>(2) 2012, (2) 2016 | BR2012, CR2012, CR2016, CL2016, DL2020, CL2025, BR2025, CR2032, CL2032 |
| <b>1026</b> | .100 (2.5) | .452 (11.5) | 1.219 (31.0) | 1.093 (27.8) | (2) 2020, (2) 2025, (2) 2032              | DL2020, CR2020, CL2025, BR2025, CR2032, CL2032                         |

Mounting Detail



## TOP LOADING



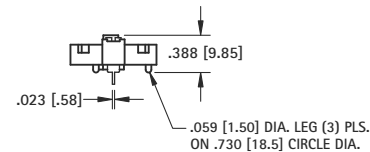
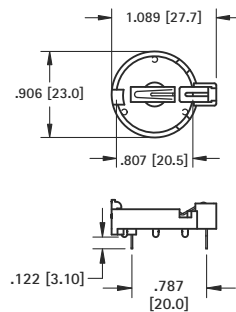
- Battery "Pop-in" from top for compact applications
- Finger pressure against lever will release battery
- No tools required for battery changes

## MATERIAL:

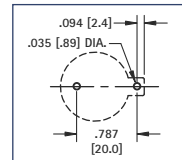
Contacts: .016 (.40) Phosphor Bronze, Tin Plate

Base: Nylon UL Rated 94V-0

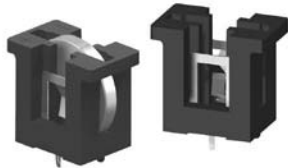
| CAT. NO.    | BATTERY REFERENCE |
|-------------|-------------------|
| <b>1066</b> | BR2025, CR2032    |



Mounting Detail



## VERTICAL COMPACT

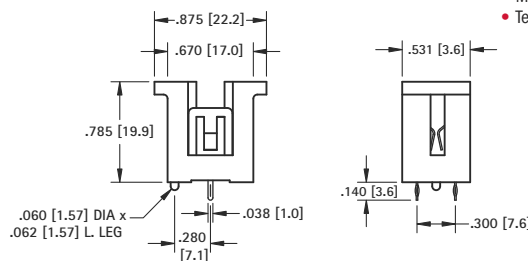


## MATERIAL:

Contacts: .012 (.30) Spring Steel, Tin-Nickel Plate

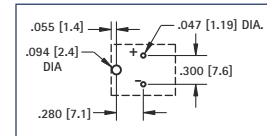
Base: PBT, UL Rated 94V-0

| CAT. NO.    | BATTERY REFERENCE              |
|-------------|--------------------------------|
| <b>1067</b> | CR2016, DL2020, CL2025, CR2032 |

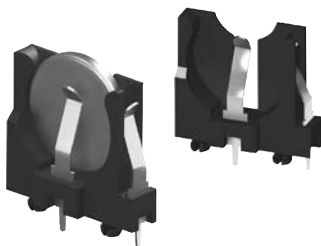


- Accepts all major manufacturers' 20mm diameter batteries
- Molded notch prevents improper insertion of 2032 size cells
- Retains cells securely, withstands shock and vibration
- Polarity clearly marked
- Mounts securely for wave soldering
- Temperature range: -60°F to +293°F (-50°C to +145°C)

Mounting Detail



## VERTICAL SLIMLINE

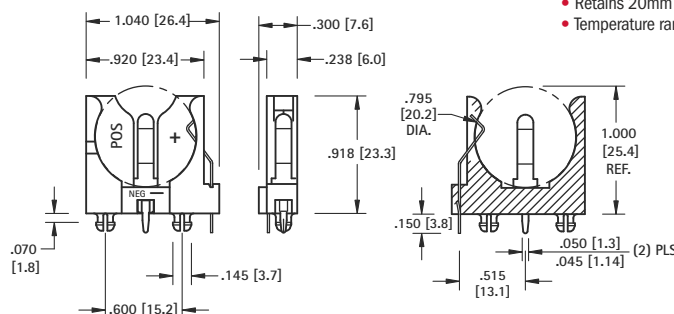


## MATERIAL:

Contacts: .016 (.40) Spring Steel, Tin-Nickel Plate

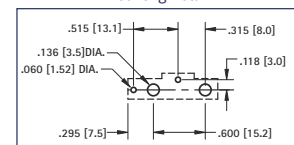
Base: PBT, UL Rated 94V-0

| CAT. NO.    | BATTERY REFERENCE                      |
|-------------|----------------------------------------|
| <b>1065</b> | BR2012, CR2016, DL2020, CL2025, CR2032 |



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

Mounting Detail



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

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

## MATERIAL:

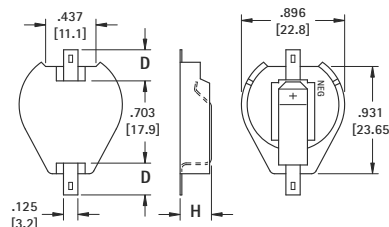
**Contacts:** .015 (.38) Steel

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

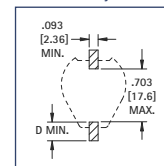
| Tin-Nickel Plate        |                         | Gold Plate (Flash)      |                         | D          | H          | CELLS                        | BATTERY REFERENCE                     |
|-------------------------|-------------------------|-------------------------|-------------------------|------------|------------|------------------------------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

## AVAILABLE ON TAPE AND REEL



## Pad Layout



Surface Mount

- Compatible with vacuum and mechanical pick & place assembly systems

## MATERIAL:

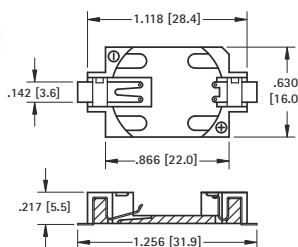
**Contacts:** .006 (.15) Phosphor Bronze, Gold Plate (Flash)

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

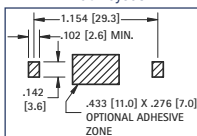
| CAT. NO. BULK | ON TAPE & REEL | BATTERY REFERENCE |
|---------------|----------------|-------------------|
| 1060          | 1060TR         | CR2025, DL2032    |

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

## AVAILABLE ON TAPE AND REEL

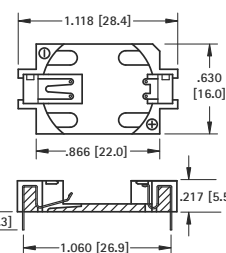


## Pad Layout



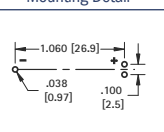
## 2025 / 2032 CELL

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



Thru Hole Mount

## Mounting Detail



## MATERIAL:

**Contacts:** .006 (.15) Phosphor Bronze, Tin Plate

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

| CAT. NO. | BATTERY REFERENCE |
|----------|-------------------|
| 1059     | CR2025, DL2032    |

# INSULATED RETAINERS



Surface Mount

## AVAILABLE ON TAPE AND REEL

- 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

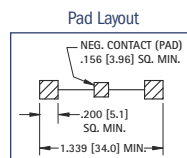
**MATERIAL:** **Contacts:** .010 (.25) Phosphor Bronze **Insulator:** High Temperature, Nylon 46, UL Rated 94V-0

## 20mm CELLS

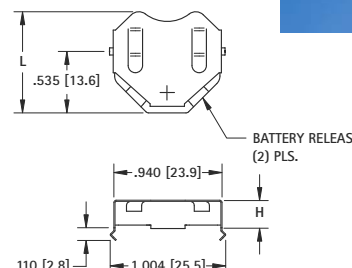
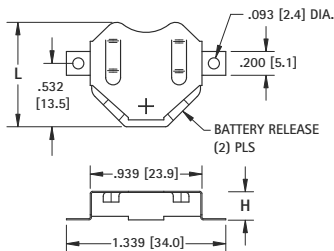
- Low profile
- Battery release ports for easy battery replacement
- Refer to pages 6 & 7 for a complete offering of coin cell retainers



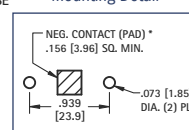
Thru Hole Mount



## Pad Layout



## Mounting Detail



| Surface Mount    |               |                | Thru Hole Mount  |               |                |
|------------------|---------------|----------------|------------------|---------------|----------------|
| Tin-Nickel Plate |               |                | Tin-Nickel Plate |               |                |
| CAT. NO. LOOSE*  | CAT. NO. BULK | ON TAPE & REEL | CAT. NO. LOOSE*  | CAT. NO. BULK | ON TAPE & REEL |
| 3020-2           | 3020          | 3020TR         | 3070-2           | 3070          | 3070TR         |
| 3022-2           | 3022          | 3022TR         | 3072-2           | 3072          | 3072TR         |
| 3024-2           | 3024          | 3024TR         | 3074-2           | 3074          | 3074TR         |

\* 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

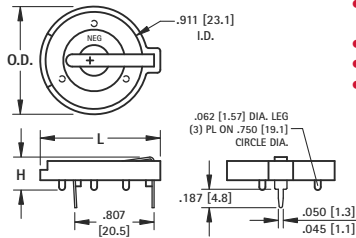
| BATTERY REFERENCE |                 | L           | H          |
|-------------------|-----------------|-------------|------------|
| 6 VOLT (2) CELLS  | 3 VOLT (1) CELL |             |            |
| 2012, 2016        | 2020, 2025      | .890 (22.6) | .156 (4.0) |
| 2020, 2025        | 2032            | .877 (22.3) | .240 (6.1) |
| 2032              | Not Applicable  | .877 (22.3) | .295 (7.5) |

| CAT. NO. LOOSE* | CAT. NO. BULK |
|-----------------|---------------|
| 3021-2          | 3021          |
| 3023-2          | 3023          |
| 3025-2          | 3025          |

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

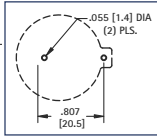
23mm

AVAILABLE ON TAPE AND REEL



- Polarity clearly marked (+)
- Rugged construction, light weight
- SMT solder tail with "Flow-Hole" design for increased joint strength
- Viewable solder tails assures reliable joint inspection
- Safe for all soldering & reflow operations
- Compatible with vacuum and mechanical pick & place assembly systems

Mounting Detail



## MATERIAL:

**Contacts:** .020 (.50) Spring Steel, Tin-Nickel Plate

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

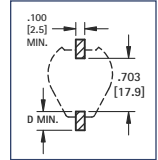
**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

| CAT. NO. | H           | L            | O.D.         | NO. OF CELLS                 | BATTERY REFERENCE                              |
|----------|-------------|--------------|--------------|------------------------------|------------------------------------------------|
| 104      | .335 (8.5)  | 1.150 (29.2) | 1.000 (25.4) | (1) Cell (Any 23mm)          | BR2320, CR2320, CL2325, DL2330, CL2354, CR2335 |
| 107      | .335 (8.5)  | 1.219 (31.0) | 1.093 (27.8) | (1) Cell (Any 23mm)          |                                                |
| 1027     | .452 (11.5) | 1.219 (31.0) | 1.093 (27.8) | (2) 2320, (2) 2325, (2) 2330 |                                                |



Surface Mount

Pad Layout



## MATERIAL:

**Contacts:** .015 (.38) Steel

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

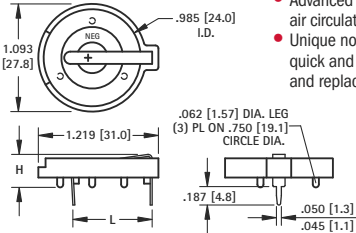
**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

| Tin-Nickel Plate             | Gold Plate (Flash)           |
|------------------------------|------------------------------|
| CAT. NO. ON TAPE & REEL BULK | CAT. NO. ON TAPE & REEL BULK |
| 1071                         | 1071TR                       |
| 1073                         | 1073TR                       |
| 1091                         | 1091TR                       |
| 1083                         | 1083TR                       |
| D PAD SIZE                   | BATTERY REFERENCE            |
| .156 (4.0)                   | CR2320, CL2325,              |
| .278 (7.1)                   | DL2330, CR2335               |

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

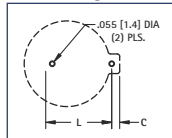
Note: All conductive polystyrene carrier tape meets ANSI/EIA - 481 standard

24mm



- Advanced air-flow design enhances air circulation around battery
- Unique notched slots assure quick and easy battery insertion and replacement

Mounting Detail



## MATERIAL:

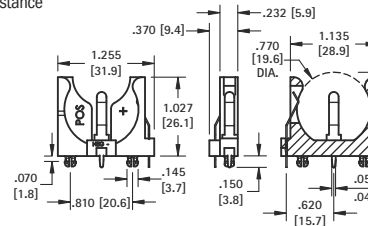
**Base:** PBT, UL Rated 94V-0

**Contacts:** .020 (.50) Spring Steel, Tin-Nickel Plate

**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

| CAT. NO. | C          | H           | L           | NO. OF CELLS | BATTERY REFERENCE              |
|----------|------------|-------------|-------------|--------------|--------------------------------|
| 105      | .064 (1.6) | .335 (8.5)  | .805 (20.5) | (1) 2430     | CR2430, CL2430, BR2450, CR2477 |
| 1025     | .074 (1.9) | .452 (11.5) | .805 (20.5) | (2) 2430     |                                |
| 1025-7   | .074 (1.9) | .503 (12.8) | .805 (20.5) | (1) 2477     |                                |
|          |            |             |             | (2) 2430     |                                |

- Polarized holder
- Mounts securely for wave soldering
- Reliable spring tension assures low contact resistance



Thru Hole Mount

## MATERIAL:

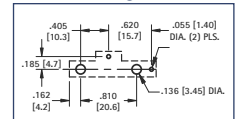
**Base:** PBT, UL Rated 94V-0

**Contacts:** .020 (.50) Spring Steel, Tin-Nickel Plate

**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

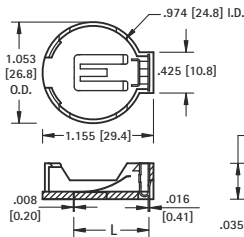
| CAT. NO. | BATTERY REFERENCE      |
|----------|------------------------|
| 1068     | (1) CR2450, (1) CL2450 |

Mounting Detail



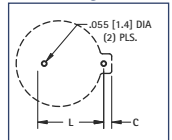
24mm TOP Loading

AVAILABLE ON TAPE AND REEL



- Battery "Pop-in" from Top for compact designs
- No tools required
- Finger pressure battery release

Mounting Detail



## MATERIAL:

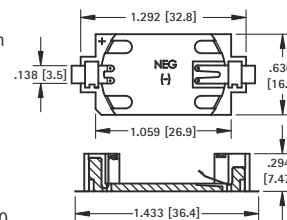
**Contacts:** Phosphor Bronze, Nickel Plate

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

**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

| CAT. NO. | L           | C          | BATTERY REFERENCE |
|----------|-------------|------------|-------------------|
| 1053     | .788 (20.0) | .048 (1.2) | (1) CR2450        |

- Polarized holder
- Low profile for densely packed PCB's
- Compatible with vacuum and mechanical pick & place systems
- Conductive carrier tape meets ANSA/EIA- 481 standard



Surface Mount

## MATERIAL:

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

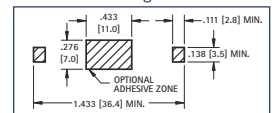
**Contacts:** .020 (.50) Spring Steel, Tin-Nickel Plate

**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

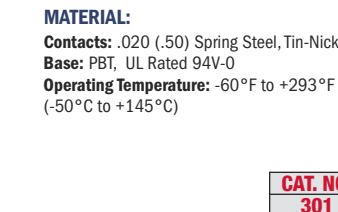
| CAT. NO. BULK | ON TAPE & REEL | BATTERY REFERENCE |
|---------------|----------------|-------------------|
| 1052          | 1052TR         | (1) CR2450        |

**Tape & Reel Spec's:** 56mm wide; 24mm pitch; 13 inch reel, (250 pieces per reel)

Mounting Detail



30mm



| CAT. NO. | BATTERY REFERENCE |
|----------|-------------------|
| 301      | BR3032            |

## MATERIAL:

**Contacts:** .020 (.50) Spring Steel, Tin-Nickel Plate

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

**Operating Temperature:** -60°F to +293°F (-50°C to +145°C)

Mounting Detail

