## Through Hole (THM) & Surface Mount (SMT) Button Cell Retainers

**Economical and reliable SMT and THM coin cell retainers specifically designed for miniature electronic applications with limited board space.**

**Features:**
- Available in Through 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 Specifications:

**32mm wide; 16mm pitch; 13 inch reel (1500 pieces per reel)**

- **Material:** 0.010 (.25) Phosphor Bronze

**Tape & Reel Spec's:**
- **Cat. No.** ON TAPE BULK & REEL
- **Battery Reference** ML414
- **Tape & Reel Spec's:** 16mm wide; 8mm pitch; 13 inch reel (500 pieces per reel)

**Solder Tail Design:**
- **Surface Mount**
- **Thru Hole Mount**

### Tape & Reel Specifications:

- **Cat. No.** ON TAPE BULK & REEL
- **Battery Reference**
- **Tape & Reel Spec's:** 24mm wide; 12mm pitch; 13 inch reel (1000 pieces per reel)

**Finish Reference:**
- Matte Tin
- Tin-Nickel
- SMT solder tail with "flow-hole" design for increased joint strength.

### Available on Tape and Reel:

- **Thru Hole Mount**
- **Surface Mount**

### Battery Reference:

- **Cat. No.** BATTERY REFERENCE
- **Solder Tail Design:** Surface Mount
- **Tape & Reel Spec's:** Size 13, DA13, AZ13E, 393, SR754, SR84

### Contact Data:

- **STAMP (+)**
- **NEG. CONTACT (PAD)**

### ISO 9001 CERTIFIED

**Contact Information:**
- Tel (718) 956-8900
- Fax (718) 956-9040
- kec@keyelco.com

**Website:** www.keyelco.com

**RoHS Compliant - ISO 9001 Certified**

**31-07 20th Road - Astoria, NY 11105-2017**
### THRU-HOLE (THM) & SURFACE MOUNT (SMT) NEGATIVE BATTERY CONTACTS

- Assures proper contact
- Design facilitates easy battery replacement
- Low profile
- Battery release ports for easy battery replacement

**MATERIAL:** Contacts: .010 (.25) Phosphor Bronze

**Tape & Reel Spec's:**

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

- Ideal for 6 volt or 3 volt applications
- Low profile
- Batteries release ports for easy battery replacement
- Refer to pages 7 & 9 for a complete offering of coin cell retainers

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

**Tape & Reel Spec's:**

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**Surface Mount**

**Thru Hole Mount**

**Tape & Reel Spec's:**

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**Dwg. 1 Material:** .008 (.20) Phosphor Bronze

**Tape & Reel Spec's:**

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**SMT COMPACT**

- Assures proper contact

**SMT SPRING CONTACT**

- Assures proper contact

**THM SNAP IN**

- Assures proper contact

**Surface Mount**

**Thru Hole Mount**

**Tape & Reel Spec's:**

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**Dwg. 2 Material:** .008 (.20) Phosphor Bronze

**Surface Mount**

**Thru Hole Mount**

**Tape & Reel Spec's:**

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**Dwg. 1 Material:** .008 (.20) Brass

**Surface Mount**

**Thru Hole Mount**

**Tape & Reel Spec's:**

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**Dwg. 2 Material:** .008 (.20) Phosphor Bronze

**Surface Mount**

**Thru Hole Mount**

**Tape & Reel Spec's:**

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

- 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

**SURFACE MOUNT (SMT)**

- **AVAILABLE ON TAPE AND REEL**
- **All conductive polystyrene carrier tape meets ANSI/EIA-481 standards**

**MATERIAL:** 010 (.25) Phosphor Bronze

**TIN-NICKEL PLATE**

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<th>B</th>
<th>F</th>
<th>H</th>
<th>L</th>
<th>W</th>
<th>CELL DIA.</th>
<th>BATTERY REFERENCE</th>
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<td>.520 (13.2)</td>
<td>.265 (6.7)</td>
<td>.125 (3.2)</td>
<td>.125 (3.2)</td>
<td>.475 (12.1)</td>
<td>.745 (19.3)</td>
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<td>298 (7.6)</td>
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<td>.857 (21.7)</td>
<td>816 (20.7)</td>
<td>911 (23.1)</td>
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* Nickel Plate

**THRU HOLE MOUNT (THM)**

- Snap-in legs maintain relative position during and after soldering
- Compatible with wave solder applications

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

**FIG. 1 - Ultra Low**

**FIG. 2 - Compact**

**FIG. 3 - Low Profile**

**FIG. 4 - Ultra Low**

**FIG. 5 - Compact**

**FIG. 6 - Low Profile**

**KEYSTONE**

Tel: (718) 956-8900 • Fax: (718) 956-9040
(800) 221-5510 • keyc@keyelco.com

www.keyelco.com

31-07 20th Rd – Asten, NY 11050-2017

Rehs Compliant — ISO 9001 Certified

12mm to 244mm COIN CELL RETAINERS