### Surface Mount Battery Clips/Contacts

- “Flow-Hole” SMT solder tail design for increased joint strength
- Tin-Nickel plating is ideal for lead free, high temperature soldering
- Matte Tin Plate for lower soldering temperatures ideal where other temperature sensitive components are being used

Refer to page 34 for Battery Contact Layout & Mounting Details

### Surface Mount Leaf-Spring Contacts

- Economical & reliable contacts are ideal for surface mount applications
- Unique spring tensioning contacts adjust to variations in battery length
- Reliable spring tension contacts assure low contact resistance
- SMT solder tail with “flow-hole” design for increased joint strength

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**Tape and Reel Spec’s:**
- 24mm wide; 16mm pitch; 13 inch reel, (500 pieces per reel)

**Surface Mount Battery Clips/Contacts**

<table>
<thead>
<tr>
<th>Material: .010 (.25) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>50</td>
<td>50TR</td>
</tr>
</tbody>
</table>

Tape & Reel Spec’s: 24mm wide; 16mm pitch; 13 inch reel, (500 pieces per reel)

**Surface Mount Leaf-Spring Contacts**

<table>
<thead>
<tr>
<th>Material: .010 (.25) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>56</td>
<td>56TR</td>
</tr>
</tbody>
</table>

Tape & Reel Spec’s: 24mm wide; 16mm pitch; 13 inch reel, (500 pieces per reel)

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**Tape and Reel Spec’s:**
- 32mm wide; 20mm pitch; 13 inch reel, (250 pieces per reel)

**Surface Mount Leaf-Spring Contacts**

<table>
<thead>
<tr>
<th>Material: .012 (.30) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>53</td>
<td>53TR</td>
</tr>
</tbody>
</table>

Tape & Reel Spec’s: 32mm wide; 24mm pitch; 13 inch reel, (150 pieces per reel)

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**Tape and Reel Spec’s:**
- 32mm wide; 20mm pitch; 13 inch reel, (250 pieces per reel)

**Surface Mount Leaf-Spring Contacts**

<table>
<thead>
<tr>
<th>Material: .010 (.25) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>57</td>
<td>57TR</td>
</tr>
</tbody>
</table>

Tape & Reel Spec’s: 32mm wide; 20mm pitch; 13 inch reel, (250 pieces per reel)

---

**Tape and Reel Spec’s:**
- 32mm wide; 20mm pitch; 13 inch reel, (250 pieces per reel)

**Surface Mount Leaf-Spring Contacts**

<table>
<thead>
<tr>
<th>Material: .010 (.25) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>5230</td>
<td>5230TR</td>
</tr>
</tbody>
</table>

Tape and Reel Spec’s: 24mm wide; 12mm pitch; 13 inch reel (400 pieces per reel)

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**Tape and Reel Spec’s:**
- 32mm wide; 16mm pitch; 13 inch reel (250 pieces per reel)

**Surface Mount Leaf-Spring Contacts**

<table>
<thead>
<tr>
<th>Material: .010 (.25) Spring Steel</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tin-Nickel Plate</th>
<th>Matte Tin Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT. NO.</td>
<td>ON TAPE &amp; REEL</td>
</tr>
<tr>
<td>5231</td>
<td>5231TR</td>
</tr>
</tbody>
</table>

Tape and Reel Spec’s: 32mm wide; 16mm pitch; 13 inch reel (250 pieces per reel)
PC BATTERY CLIPS

- Mounts securely to the PC board with advanced “Snap-In” design for thru hole mounting
- Reliable spring tension assures low contact resistance
- Low profile, economical design
- Retains battery securely to withstand shock and vibration
- AAA, AAA, AA, N, 12V, 2/3A, 17-19mm

Refer to page 35 for Battery Contact Layout & Mounting Details

"AAAA" • "A27"

FIG. 1

"AAAA" • "N" • "A23" • "AA" • "CR2"

FIG. 2

"A" • 17–19mm*

FIG. 3

P.C. BUTTON & SPRING CONTACTS

- Space saving design installs directly onto the PC board
- Suitable for .062 (1.57) to .093 (2.36) PC boards
- Reliable spring tension assures low contact resistance
- Ideal for self-contained battery compartments

CAT. NO. FIG. BATTERY SIZE BATTERY DIAMETER A B C D H L W MATERIAL THICKNESS
51 1 "AAAA" • "A27" 360–350 (1.4–1.4) .187 (4.8) .187 (4.8) .194 (4.9) – .320 (8.1) 214 (5.4) 226 (5.7) .010 (.25)
82 2 "AA" • "CR2" • "A" No Ears 250 (6.4) – 280 (7.1) .032 (0.8) .488 (12.4) 228 (5.7) 250 (6.4) .010 (.25)
52 2 "AA" • "CR2" • "A" 351–665 (13.5–16.5) 312 (7.9) 250 (6.4) 350 (8.9) .040 (1.0) .500 (12.7) 220 (5.6) 295 (7.5) .010 (.25)
92 2 "AA" • "CR2" • "A" 531–665 (13.5–16.5) 312 (7.9) 250 (6.4) 350 (8.9) .040 (1.0) .500 (12.7) 220 (5.6) 295 (7.5) .010 (.25)
2915 2 "AA" • "CR2" • "A" 531–665 (13.5–16.5) 312 (7.9) 250 (6.4) 350 (8.9) .040 (1.0) .500 (12.7) 220 (5.6) 295 (7.5) .010 (.25)
54 3 "A" • 17–19mm* 569–748 (14.0–19.0) 350 (8.9) .045 (1.1) .653 (16.6) 300 (7.6) 438 (11.1) .012 (.30)

*Battery Reference: 2/3A, 17335, 17450, 17500, 17650, 18650, 18650 cells

COIL SPRING

(-) POSITIVE BUTTON

MATERIAL: .015 (.38) Steel, Matte Tin Plate

CAT. NO. 595

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

CAT. NO. 596

LEAF SPRING

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

CAT. NO. 591

CAT. NO. 590

CAT. NO. 597

CAT. NO. 599

CAT. NO. 628

CAT. NO. 629

CAT. NO. 637

CAT. NO. 595
**RUGGED STEEL BATTERY CLIPS**

**“AA” • “C” • “D”**

Refer to page 36 for Battery Contact Layout & Mounting Details

**SPECIFICATIONS**
- **Clips:** Spring Steel, Nickel Plate
- **Contact Eyelets:** Brass, Nickel Plate
- **Insulating Washers:** Moisture Proof, Resin Impregnated Fibre
- **Solder Lugs:** Brass, Tin Plate
- Available with insulated or non-insulated contact. Positive contact grips battery securely.

**ECONOMY CONTACTS**
- Designed for mounting in self-contained, non-metallic battery compartments.
- Reliable spring tension assures low contact resistance.
- Recessed contact holds battery in place.
- All clips have anti-rotation tab.

**POLARITY INDICATING LABEL**
- No Gluing or Wetting Needed
- Economical
- Pressure Sensitive Adhesive Back
- Adheres To All Surfaces

Recommended where proper polarity of battery insertion or circuit polarity is to be shown. Labels are two color, (+) positive side red; arrow, (-) negative side blue.

**BATTERY SPRING CONTACTS**

Easy to assemble with eyelets or rivets. Refer to page 136.

**INSULATED POLARIZING WASHERS**

Prevents improper connection of battery which may cause damage to electronic equipment. Washers hold securely when snapped over eyelets. Used on our standardized battery holders. For “AA”, “C” & “D” cells.

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**CAT. NO. 59** (RED) **CAT. NO. 60** (BLACK)

**MATERIAL:** Molded Polyethylene

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

31-07 20th Road – Astoria, NY 11105-2017

RoHS COMPLIANT — ISO 9001 CERTIFIED
• Economical and reliable contacts are ideal for molded cases with self contained battery compartments
• Solder "ear" to facilitate soldering of wire lead
• Unique spring tension contact adjusts to variations in battery length
• Reliable spring tension contacts assure low contact resistance
• Clips easily onto .060 (1.52) to .070 (1.78) wall
• Sharp barbs securely anchor contact in place

Refer to page 36 for Battery Contact Layout & Mounting Details
**SLIDE-IN MOUNT CONTACTS**

- Press fit into housing groove

**SLIDE-IN P.C. MOUNT CONTACTS**

- Economical and reliable contacts
- Designed for direct placement onto PCB, no wire leads required
- Unique spring tension adjusts to variations in battery length
- Reliable spring tension assure low contact resistance and dependable connection
- Symmetrical design allows these contacts to function both as a positive and negative contacts
- Stainless steel contacts provide superior corrosion resistance

Refer to page 36 for Battery Contact Layout & Mounting Details

**UNIVERSAL BATTERY SIZES**

- "AA" • "A" • 17-19 mm • "C" • "D"
- "AA" • "CR2" • "A" • 17-19 mm
- "AAA" • "A23" • "A27" • "AAA" • "N"
- "AAAA" • "A23" • "A27" • "AAA" • "N"

**BATTERY CONTACTS FOR MOLDED CASES**

- Refer to page 36 for Battery Contact Layout & Mounting Details

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**SLIDE-IN MOUNT CONTACTS**

- "AA" • "CR2" • "A" • "9V" • 17-19 mm

**SLIDE-IN P.C. MOUNT CONTACTS**

- "AA" • "A" • 17-19 mm • "C" • "D"
- "AA" • "CR2" • "A" • 17-19 mm
- "AAA" • "A23" • "A27" • "AAA" • "N"
- "AAAA" • "A23" • "A27" • "AAA" • "N"

**BATTERY CONTACTS FOR MOLDED CASES**

- "AA" • "A" • 17-19 mm • "C" • "D"
- "AA" • "CR2" • "A" • 17-19 mm
- "AAA" • "A23" • "A27" • "AAA" • "N"
- "AAAA" • "A23" • "A27" • "AAA" • "N"
Economical and reliable contacts are ideal for molded cases with self contained battery compartments

“Solder tab” design for either wire lead or PC mounting

Unique spring contacts adjust to variations in battery lengths

Reliable spring contacts assure low contact resistance and a dependable connection

Space saving, economical, excellent mechanical construction

MATERIAL:
Plate: .020 (.51) Steel, Nickel Plate
Spring: Spring Steel, Nickel Plate

Refer to page 35 for Battery Contact Layout & Mounting Details
**Economical and reliable contacts are ideal for molded cases with self contained battery compartments**

- "Solder tab" design for either wire lead or PC mounting
- Unique spring contacts adjust to variations in battery lengths
- Reliable spring contacts assure low contact resistance and a dependable connection
- Space saving, economical, excellent mechanical construction

**MATERIAL:**
- Plate: .020 (.51) Steel, Nickel Plate
- Spring: Spring Steel, Nickel Plate

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**SPRING & BUTTON CONTACTS**

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**BATTERY CONTACTS FOR MOLDED CASES**

*Refer to page 37 for Battery Contact Layout & Mounting Details*

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**CAT. NO. 5220**

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**CAT. NO. 5219**

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**CAT. NO. 5218**
SPRING & BUTTON CONTACTS

- Economical and reliable contacts are ideal for molded cases with self-contained battery compartments
- "Solder tab" design for either wire lead or PC mounting
- Unique spring contacts adjust to variations in battery lengths
- Reliable spring contacts assure low contact resistance and a dependable connection
- Space saving, economical, excellent mechanical construction

MATERIAL:
Plate: .020 (.51) Steel, Nickel Plate  Spring: Spring Steel, Nickel Plate

Refer to page 37 for Battery Contact Layout & Mounting Details.

CAT. NO. 5240

CAT. NO. 5241

CAT. NO. 5242

CAT. NO. 5250

CAT. NO. 5251

CAT. NO. 5253 Left
CAT. NO. 5252 Right (Shown)