Battery Holders

Surface Mounting Technology (SMT)

Horizontal mounting

Features
- Easy and fast replacement of the battery
- Designed for automatic pick&place mounting
- Safe retention of coin cell
- Automated battery mounting possible
- Clear separation of connections
- Protection against short-circuits
- Protection against inverse polarity (polarized)
- Protection against leak currents
- Robust design
- Suitable for reflow-soldering

Specifications
- Holder material: heat-resistant, glass fibre filled LCP
- Flammability rating UL 94 V-0
- Battery contacts: spring stainless steel AISI 301, nickel-plated throughout. Solder area tin-plated throughout, min. thickness 5 µm.
- Contact resistance between contacts and the cell is less than 100 mΩ (measured through AC 1kHz; depending on the case material of the cell).
- UL recognition, file E218732
- Operating temperature range: −40/+100°C

Specifications
- Holder material: heat-resistant, glass fibre filled LCP
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Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>For use with Renata cell</th>
<th>Dimensions (mm)</th>
<th>Weight (g)</th>
<th>Part.No.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMTU357-LF</td>
<td>357 (SR44W)</td>
<td>A 23.3 B 19.9 C 11.6 D 12.0 E 7.55</td>
<td>F 20.7</td>
<td>0.85</td>
</tr>
<tr>
<td>SMTU1220-LF</td>
<td>CR1220</td>
<td>A 23.7 B 20.3 C 12.5 D 12.7 E 4.8</td>
<td>F 21.1</td>
<td>0.80</td>
</tr>
<tr>
<td>SMTU1225-LF</td>
<td>CR1225</td>
<td>A 23.7 B 20.3 C 12.5 D 12.7 E 4.8</td>
<td>F 21.1</td>
<td>0.70</td>
</tr>
<tr>
<td>SMTU1632-LF</td>
<td>CR1632</td>
<td>A 27.7 B 24.3 C 16.0 D 14.5 E 5.4</td>
<td>F 25.1</td>
<td>0.80</td>
</tr>
<tr>
<td>SMTU2032-LF</td>
<td>CR2032</td>
<td>A 32.0 B 28.5 C 20.0 D 16.1 E 5.4</td>
<td>F 29.4</td>
<td>0.95</td>
</tr>
<tr>
<td>SMTU2430-LF</td>
<td>CR2430</td>
<td>A 36.4 B 33.0 C 24.5 D 16.1 E 4.9</td>
<td>F 33.8</td>
<td>1.05</td>
</tr>
<tr>
<td>SMTU2450N-LF</td>
<td>CR2450N</td>
<td>A 36.4 B 33.0 C 24.5 D 16.1 E 7.5</td>
<td>F 33.8</td>
<td>1.45</td>
</tr>
<tr>
<td>SMTU2477N-LF</td>
<td>CR2477N</td>
<td>A 36.4 B 33.0 C 24.5 D 16.1 E 10.3</td>
<td>F 33.8</td>
<td>1.65</td>
</tr>
<tr>
<td>SM2X2016-LF</td>
<td>CR2016</td>
<td>A 32.0 B 28.5 C 20.0 D 16.1 E 5.4</td>
<td>F 29.4</td>
<td>0.95</td>
</tr>
</tbody>
</table>

*Packaging: Industrial Bulk (IB-Trays)

1) Not suitable for CR2450HT
Battery Holders
Through-hole mounting

Horizontal mounting

Features
- Easy and fast replacement of the battery
- Designed for automatic pick & place mounting
- Safe retention of coin cell
- Automated battery mounting possible
- Clear separation of connections
- Protection against short-circuits
- Protection against inverse polarity (polarized)
- Protection against leak currents
- Robust design
- Suitable for wave-soldering

Specifications
- Holder material: heat-resistant, glass fibre filled LCP
- Flammability rating UL 94 V-0
- Battery contacts: spring stainless steel AISI 301, nickel-plated throughout. Solder area tin-plated throughout, min. thickness 5 µm.
- Contact resistance between contacts and the cell is less than 100 mΩ (measured through AC 1kHz; depending on the case material of the cell).
- UL recognition, file E218732
- Operating temperature range: −40/+100°C

Specifications
• Holder material: heat-resistant, glass fibre filled LCP
• Flammability rating UL 94 V-0
• Battery contacts: spring stainless steel AISI 301, nickel-plated throughout. Solder area tin-plated throughout, min. thickness 5 µm.
• Contact resistance between contacts and the cell is less than 100 mΩ (measured through AC 1kHz; depending on the case material of the cell).
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• Operating temperature range: −40/+100°C

Specifications
• Holder material: heat-resistant, glass fibre filled LCP
• Flammability rating UL 94 V-0
• Battery contacts: spring stainless steel AISI 301, nickel-plated throughout. Solder area tin-plated throughout, min. thickness 5 µm.
• Contact resistance between contacts and the cell is less than 100 mΩ (measured through AC 1kHz; depending on the case material of the cell).
• UL recognition, file E218732
• Operating temperature range: −40/+100°C

Dimensions

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<tr>
<th>Model</th>
<th>For use with Renata cell</th>
<th>Dimensions (mm)</th>
<th>Weight (g)</th>
<th>Part.No.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HU357-LF</td>
<td>357 (SR44W)</td>
<td>19.9 11.6 12.0 7.4 18.65</td>
<td>0.84</td>
<td>701133</td>
</tr>
<tr>
<td>HU1225-LF</td>
<td>CR1225</td>
<td>20.3 12.5 12.7 4.5 19.1</td>
<td>0.70</td>
<td>701105</td>
</tr>
<tr>
<td>HU1632-LF</td>
<td>CR1632</td>
<td>24.3 16.0 14.5 5.2 23.0</td>
<td>0.80</td>
<td>701131</td>
</tr>
<tr>
<td>HU2032-LF</td>
<td>CR2032</td>
<td>28.5 20.0 16.1 5.2 27.2</td>
<td>0.95</td>
<td>701106</td>
</tr>
<tr>
<td>HU2430-LF</td>
<td>CR2430</td>
<td>33.0 24.5 16.1 4.7 31.7</td>
<td>1.05</td>
<td>701107</td>
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<tr>
<td>HU2450N-LF</td>
<td>CR2450N</td>
<td>33.0 24.5 16.1 7.3 31.75</td>
<td>1.45</td>
<td>701108</td>
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<tr>
<td>HU2477N-LF</td>
<td>CR2477N</td>
<td>33.0 24.5 16.1 10.1 31.8</td>
<td>1.65</td>
<td>701109</td>
</tr>
</tbody>
</table>

*Packaging: Industrial Bulk (IB-Trays)

1) Not suitable for CR2450HT
Battery Holders
Through-hole mounting

Vertical mounting

VBH2032-1 - Vertical battery holder for Renata coin cell CR2032 / CR2032MFR

Features
• Small PCB footprint
• Easy and fast replacement of the battery
• Safe retention of coin cell
• Protection against short-circuits
• Protection against inverse polarity (polarized)
• Protection against leak currents
• Robust design
• Suitable for wave-soldering

Specifications
• Holder material: polyamide
• Flammability rating UL 94 V-0
• Battery contacts: spring stainless steel AISI 301, nickel-plated throughout.
• UL recognition, file E218732
• Operating temperature range: -40/+85°C

Dimensions (mm)

Model | For use with Renata cell | Weight (g) | Part. No.*
-----|--------------------------|------------|----------
VBH2032-1 | CR2032 | 1.6 | 700579

*Packaging: Industrial Bulk (B-Trays)
Battery Holders

Through-hole mounting with positioning pins

Battery holders for CR2450N or CR2477N
Vertical and horizontal versions

Features
- Easy and fast replacement of the battery
- Snap-on fixing for coin cells
- Safe retention of coin cell
- Automated battery mounting possible
- Clear separation of connections
- Protection against short-circuits
- Protection against inverse polarity
- Protection against leak currents
- Robust design
- Easy and safe PCB mounting due to additional positioning pins
- Suitable for wave-soldering

Specifications
- Holder material: polyamide
- Flammability rating UL 94 V-2
- Battery contacts: Nickel 99.6 DIN 17740
- Contact resistance between contacts and the cell is less than 100 mΩ (measured through AC 1kHz).
- Solder and positioning pins tin plated throughout, min. thickness 5 µm.
- UL recognition, file E218732
- Operating temperature range: –40/+85°C

NH5077-LF Vertical version

NL5077-LF Horizontal version

Model  For use with Renata cell  Weight (g)  Part.No.*
NH5077-LF  CR2450N¹, CR2477N  2.4  701111
NL5077-LF  CR2450N¹, CR2477N  2.9  701112

¹Packaging: Industrial Bulk (IB-Trays)

1) Not suitable for CR2450HT
Battery Holders

Packaging options

Battery holders can be supplied in different packaging

**Industrial Bulk multi-cell trays**

Packaging Code: **IB**

Industrial Bulk packaging is the standard packaging for manufacturers.

The number of battery holders per tray depends on the respective model. So does the number of trays per shrink pack.

**Tape&Reel packaging**

Packaging Code: **TR**

For SMT-battery holders there is a Tape&Reel packaging solution available.

Tape&Reel packaging is ideal for high-speed, automated manufacturing lines.

The number of battery holders per reel depends on the respective model.

**Quantity per reel:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity per Reel</th>
<th>Part.No.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMTU1225-LF TR</td>
<td>750 pieces</td>
<td>701230</td>
</tr>
<tr>
<td>SMTU1632-LF TR</td>
<td>520 pieces</td>
<td>701231</td>
</tr>
<tr>
<td>SMTU2032-LF TR</td>
<td>485 pieces</td>
<td>701232</td>
</tr>
<tr>
<td>SMTU2430-LF TR</td>
<td>490 pieces</td>
<td>701233</td>
</tr>
<tr>
<td>SMTU2450N-LF TR</td>
<td>350 pieces</td>
<td>701234</td>
</tr>
<tr>
<td>SMTU2477N-LF TR</td>
<td>250 pieces</td>
<td>701235</td>
</tr>
<tr>
<td>SM2X2016-LF TR</td>
<td>485 pieces</td>
<td>701236</td>
</tr>
</tbody>
</table>

*Packaging: Tape&Reel (TR)*