

## Battery Holders

- Renata's comprehensive line of battery holders for lithium coin cells are available as horizontal or vertical versions with through-hole or SMT-design. As a leading producer and supplier of miniature batteries, Renata has created a holder program for highest quality requirements, such as low contact resistance, safe retention of the coin cells, and state-of-the-art solderability.

### Surface Mounting Technology (SMTU)

#### 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

\* Gold plated contacts for increased conductivity

#### Specifications

Holder material: heat-resistant, glass fibre filled LCP  
Flammability rating UL 94 V-O  
Battery contacts: spring stainless steel AISI 301, nickel-plated throughout. Solder area tin-plated throughout, min. thickness 5µm.  
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

| Renata part name | For use with Renata cell | Weight (g) | Maximum dimensions (mm) |      |      |      |      |      | Technical drawing                                                                                                                                                               |
|------------------|--------------------------|------------|-------------------------|------|------|------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |                          |            | A                       | B    | C    | D    | E    | F    |                                                                                                                                                                                 |
| SMTU357-LF       | 357                      | 0.85       | 23.6                    | 19.9 | 11.6 | 12.0 | 7.55 | 20.7 |  PDF  |
| SMTU1220-LF      | CR1220                   | 0.80       | 23.7                    | 20.3 | 12.5 | 12.7 | 4.8  | 21.1 |  PDF  |
| SMTU1225-LF      | CR1225                   | 0.70       | 23.7                    | 20.3 | 12.5 | 12.7 | 4.8  | 21.1 |  PDF  |
| SMTU1632-LF      | CR1632                   | 0.80       | 27.7                    | 24.3 | 16.0 | 14.5 | 5.4  | 25.1 |  PDF  |
| SMTU2032-LF      | CR2032                   | 0.95       | 32.0                    | 28.5 | 20.0 | 16.1 | 5.4  | 29.4 |  PDF  |
| SMTU2430-LF      | CR2430                   | 1.05       | 36.4                    | 33.0 | 24.5 | 16.1 | 4.9  | 33.8 |  PDF  |
| SMTU2450N-LF     | CR2450N                  | 1.45       | 36.4                    | 33.0 | 24.5 | 16.1 | 7.5  | 33.8 |  PDF  |
| SMTU2477N-LF     | CR2477N                  | 1.65       | 36.4                    | 33.0 | 24.5 | 16.1 | 10.3 | 33.8 |  PDF  |
| SM2X2016-LF      | CR2016                   | 0.95       | 32.0                    | 28.5 | 20.0 | 16.1 | 5.4  | 29.4 |  PDF  |
| SMTU2032-G*      | CR2032                   | 0.95       | 32.0                    | 28.5 | 20.0 | 16.1 | 5.4  | 29.4 |  PDF                                                                                       |