Product Specification

LSUC 003R0L 0380F EA
LSUC 003R0L 0430F EA
LSUC 003R0L 0480F EA
**Product Specification**

### Features

High Power and Long-Term Reliability feature
If LS Ultracapacitor enables this component to use in various applications as backup power unit, auxiliary power unit, instantaneous power compensation, peak power compensation and energy storage as well.

### Specification

<table>
<thead>
<tr>
<th>Part number</th>
<th>Capacitance (F)</th>
<th>Max. ESR (mΩ)</th>
<th>Max. Current (A) Non-repeated (Calculated value)</th>
<th>Leakage Current (mA)</th>
<th>Max. Stored Energy (Wh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSUC 003R0L 0380F EA</td>
<td>380</td>
<td>3.0</td>
<td>3.2</td>
<td>&lt; 1</td>
<td>0.47</td>
</tr>
<tr>
<td>LSUC 003R0L 0430F EA</td>
<td>430</td>
<td>2.8</td>
<td>3.0</td>
<td>&lt; 1</td>
<td>0.53</td>
</tr>
<tr>
<td>LSUC 003R0L 0480F EA</td>
<td>480</td>
<td>2.8</td>
<td>3.0</td>
<td>&lt; 1.2</td>
<td>0.60</td>
</tr>
</tbody>
</table>

**Rated Voltage**
3.0 V

**Max. Voltage**
3.2 V

**Capacitance Tolerance**
-5% / +15%

**Operating temperature range**
-40 ~ 65 °C at 3.0V (-40 ~ 85°C at 2.5V )

**Storage temperature range**
-40 ~ 70 °C

**Endurance Life (65°C)**
1,000 Hours
- Capacitance change: Within 20% of initially specified value
- ESR change: Within 100% of initially specified value

**Projected Life Time (25°C)**
10 Years at rated voltage
- Capacitance change: Within 20% of initially specified value
- ESR change: Within 100% of initially specified value

**Projected Cycle Life (25°C)**
500,000 Cycles
- Capacitance change: Within 20% of initially specified value
- ESR change: Within 100% of initially specified value

**Shelf Life (25°C)**
4 Years stored uncharged state

**Certifications**
ROHS, REACH, UL810A (Certificate No.: MH46367)
Product specification

■ Physical properties

Dimension in mm (not to scale)

Sleeve for insulation
Connectors tinned

Mounting holes for PCB

■ Standard Ratings

<table>
<thead>
<tr>
<th>Part number</th>
<th>Max. Continuous Current (A) ( ^3 )</th>
<th>Thermal Resistance ( ^\circ C/W )</th>
<th>Dimension (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>( \triangle T=15 , ^\circ C )</td>
<td>( \triangle T=40 , ^\circ C )</td>
<td>D1 (+ 1.0)</td>
<td>L (±2.0)</td>
</tr>
<tr>
<td>LSUC 003R0L 0380F EA</td>
<td>25</td>
<td>40</td>
<td>8.0</td>
<td>35.0</td>
</tr>
<tr>
<td>LSUC 003R0L 0430F EA</td>
<td>25</td>
<td>40</td>
<td>8.3</td>
<td>35.0</td>
</tr>
<tr>
<td>LSUC 003R0L 0480F EA</td>
<td>25</td>
<td>40</td>
<td>8.3</td>
<td>35.0</td>
</tr>
</tbody>
</table>

*Remark
1) Non-repeated, not to exceed 1sec.
2) Actual cycle value can be subject to various application conditions.
3) Initial state value.