



Document Number V02_170117

Product Specification

LSUC 002R8L 0350F EA

LSUC 002R8L 0400F EA

LSUC 002R8L 0450F 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

| | | |
|--|---|--|
| Rated Voltage | 2.8 V | |
| Max. Voltage ¹ | 3.0 V | |
| Capacitance Tolerance | 0% / +20% | |
| Operating temperature range | -40 ~ 65 °C | |
| Storage temperature range | -40 ~ 70 °C | |
| Endurance Life (65°C) | 1,500 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) ² | 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) | |

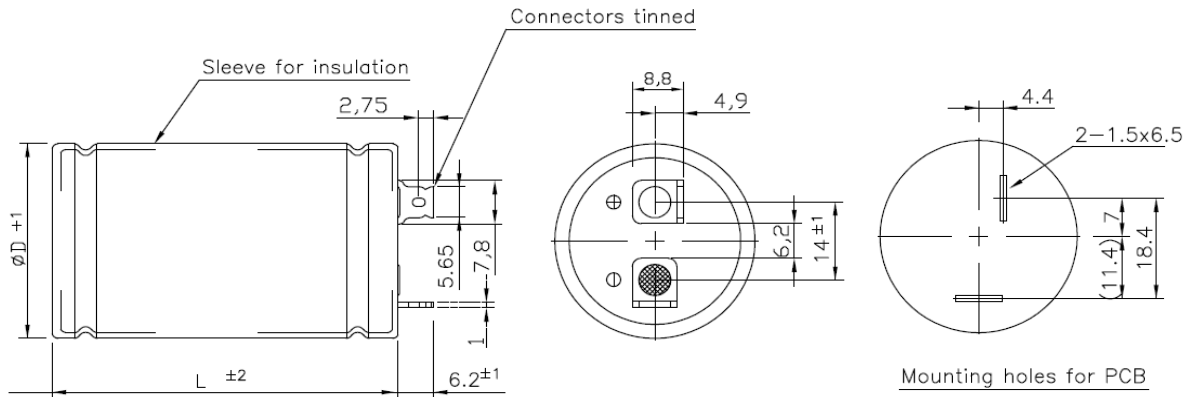
■ Standard Ratings

| Part number | Capacitance (F) | Max. ESR (mΩ) | | Max. Current (A) Non-repeated (Calculated value) | Leakage Current (mA) | Max. Stored Energy (Wh) |
|----------------------|-----------------|---------------|-----|--|----------------------|-------------------------|
| | | AC (1KHz) | DC | | | |
| LSUC 002R8L 0350F EA | 350 | 3.0 | 3.2 | 231 | < 1 | 0.38 |
| LSUC 002R8L 0400F EA | 400 | 2.8 | 3.0 | 255 | < 1 | 0.43 |
| LSUC 002R8L 0450F EA | 450 | 2.8 | 3.0 | 268 | < 1 | 0.49 |

Product specification

Physical properties

Dimension in mm (not to scale)



Standard Ratings

| Part number | Max. Continuous Current (A) ³ | | Thermal Resistance (°C/W) _ Cell Surface | Dimension (mm) | | Weight (g) |
|----------------------|--|---------------------------------------|---|----------------|-----------------|------------|
| | $\Delta T=15\text{ }^{\circ}\text{C}$ | $\Delta T=40\text{ }^{\circ}\text{C}$ | | D1 (+ 1.0) | L (± 2.0) | |
| LSUC 002R8L 0350F EA | 25 | 40 | 8.0 | 35.0 | 61.0 | 72 |
| LSUC 002R8L 0400F EA | 25 | 40 | 8.3 | 35.0 | 66.0 | 80 |
| LSUC 002R8L 0450F EA | 25 | 40 | 8.3 | 35.0 | 71.0 | 88 |

*Remark

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