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Product Specification

LSUC 003R0S 0380F EA
LSUC 003R0S 0430F EA
LSUC 003R0S 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

| | | |
|-----------------------------|---|--|
| Rated Voltage | 3.0 V | |
| Max. Voltage ¹ | 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 |
| 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 |
| 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) | |

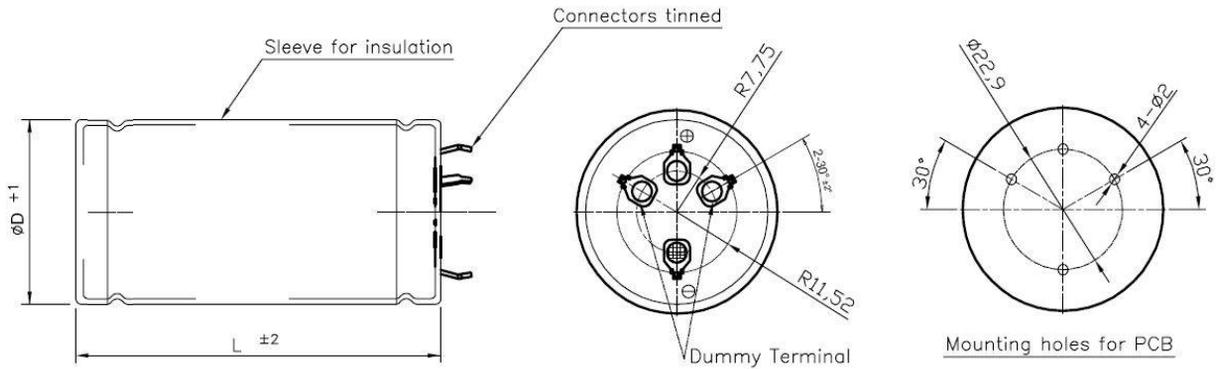
■ Standard Ratings

| Part number | Capacitance (F) | Max. ESR (mΩ) | | Max. Current (A) Non-repeated | Leakage Current (mA) | Max. Stored Energy (Wh) |
|----------------------|-----------------|---------------|-----|----------------------------------|----------------------|-------------------------|
| | | AC (1KHz) | DC | | | |
| LSUC 003R0S 0380F EA | 380 | 3.0 | 3.2 | 257 | < 1 | 0.48 |
| LSUC 003R0S 0430F EA | 430 | 2.8 | 3.0 | 282 | < 1 | 0.54 |
| LSUC 003R0S 0480F EA | 480 | 2.8 | 3.0 | 295 | < 1 | 0.60 |

Product specification

Physical properties

Dimension in mm (not to scale)



Standard Ratings

| Part number | Max. Continuous Current (A) ² | | Thermal Resistance (°C/W) _ Cell Surface | Dimension (mm) | | Weight (g) |
|----------------------|--|-------------------------------|---|----------------|-----------------|------------|
| | $\Delta T = 15^\circ\text{C}$ | $\Delta T = 40^\circ\text{C}$ | | D1 (+ 1.0) | L (± 2.0) | |
| LSUC 003R0S 0380F EA | 25 | 40 | 8.0 | 35.0 | 61.0 | 72 |
| LSUC 003R0S 0430F EA | 25 | 40 | 8.3 | 35.0 | 66.0 | 80 |
| LSUC 003R0S 0480F EA | 25 | 40 | 8.3 | 35.0 | 71.0 | 88 |

*Remark

- 1) Non-repeated, not to exceed 1sec.
- 2) Initial state value.