



Document Number V01_170117

Product Specification

LSUC 003ROC 3000F EA
(Tentative)



Product Specification

Tentative

■ 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 | 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 | 1,000,000 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 | |
| Shock & Vibration | IEC 61373, IEC 60068 | |

■ Standard Ratings

| Part number | Capacitance (F) | Max. ESR (mΩ) | Max. Current (A) Non-repeated (Calculated value) | Leakage Current (mA) | Max. Stored Energy (Wh) |
|----------------------|-----------------|---------------|--|----------------------|-------------------------|
| LSUC 003R0C 3000F EA | 3000 | 0.23 | 2,663 | < 5 | 3.75 |

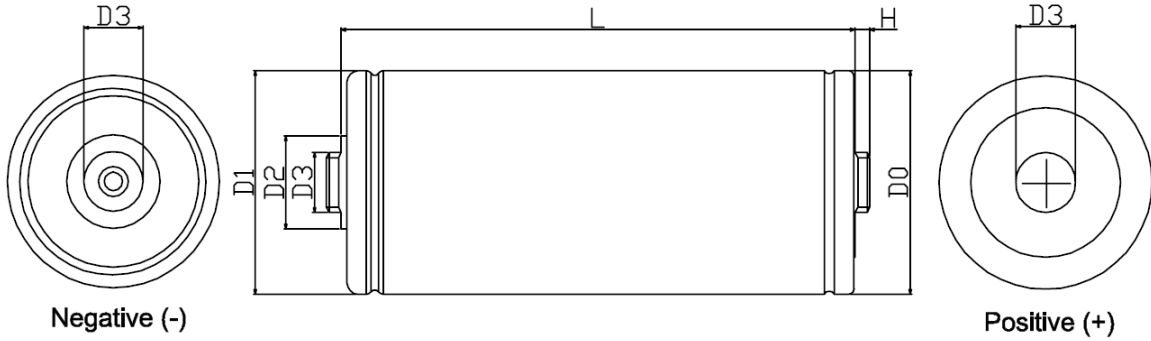
*Remark

1) Non-repeated, not to exceed 1sec.

2) Actual cycle value can be subject to various application conditions.

Product Specification

Physical Properties



Standard Ratings

| Part number (Short Threaded Terminal) | Dimension (mm) | | | | | | Weight (g) |
|--|------------------|--------------------|------------------|-------------------|-------------------|-----------------|---------------|
| | D0 (+ 0.6) | D1 (± 0.7) | D2 (± 0.1) | D3 | H (± 0.1) | L (± 0.5) | |
| LSUC 003R0C 3000F EA ST01 | $\varnothing 60$ | $\varnothing 60.7$ | $\varnothing 25$ | M16, P1.0 | 4 | 138 | 515 |
| Part number (Long Threaded Terminal) | Dimension (mm) | | | | | | Weight (g) |
| | D0 (+ 0.6) | D1 (± 0.7) | D2 (± 0.1) | D3 | H (± 0.1) | L (± 0.5) | |
| LSUC 003R0C 3000F EA LT01 | $\varnothing 60$ | $\varnothing 60.7$ | $\varnothing 25$ | M16, P2.0 | 14 | 138 | 520 |
| Part number (Long Threaded Terminal) | Dimension (mm) | | | | | | Weight (g) |
| | D0 (+ 0.6) | D1 (± 0.7) | D2 (± 0.1) | D3 | H (± 0.1) | L (± 0.5) | |
| LSUC 003R0C 3000F EA LT02 | $\varnothing 60$ | $\varnothing 60.7$ | $\varnothing 25$ | M12, P1.75 | 14 | 138 | 520 |
| Part number (Weldable Terminal) | Dimension (mm) | | | | | | Weight (g) |
| | D0 (+ 0.6) | D1 (± 0.7) | D2 (± 0.1) | D3 (± 0.05) | H (± 0.125) | L (± 0.5) | |
| LSUC 003R0C 3000F EA WT01 | $\varnothing 60$ | $\varnothing 60.7$ | $\varnothing 25$ | $\varnothing 14$ | 3.18 | 138 | 515 |

* Material for weldable terminal : AL 6061