



Document Number | V01\_170508

# Product Specification

LSUC 003ROC 3000F 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	
Surge Voltage <sup>1</sup>	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) <sup>2</sup>	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 60068-2-6 : 2007, IEC 60068-2-27 :2008	

## ■ 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	2,600	< 7	3.75

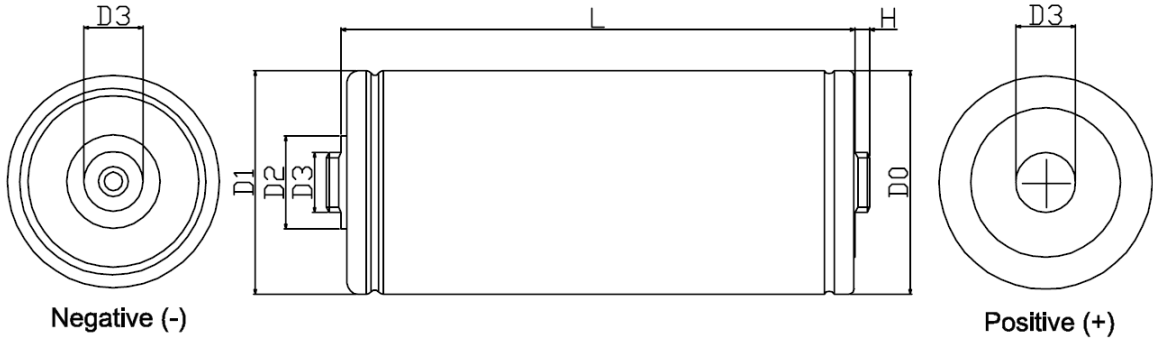
\*Remark

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 ( $\pm 0.7$ )	D2 ( $\pm 0.1$ )	D3	H ( $\pm 0.1$ )	L ( $\pm 0.5$ )	
LSUC 003R0C 3000F EA ST01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M16, P1.0	4	138	520
Part number (Long Threaded Terminal)	Dimension (mm)						Weight (g)
	D0 (+ 0.6)	D1 ( $\pm 0.7$ )	D2 ( $\pm 0.1$ )	D3	H ( $\pm 0.1$ )	L ( $\pm 0.5$ )	
LSUC 003R0C 3000F EA LT01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M16, P2.0	14	138	525
Part number (Long Threaded Terminal)	Dimension (mm)						Weight (g)
	D0 (+ 0.6)	D1 ( $\pm 0.7$ )	D2 ( $\pm 0.1$ )	D3	H ( $\pm 0.1$ )	L ( $\pm 0.5$ )	
LSUC 003R0C 3000F EA LT02	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M12, P1.75	14	138	525
Part number (Weldable Terminal)	Dimension (mm)						Weight (g)
	D0 (+ 0.6)	D1 ( $\pm 0.7$ )	D2 ( $\pm 0.1$ )	D3 ( $\pm 0.05$ )	H ( $\pm 0.125$ )	L ( $\pm 0.5$ )	
LSUC 003R0C 3000F EA WT01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	$\varnothing 14$	3.18	138	520

\* Material for weldable terminal : AL 6061