



Document Number | V01\_161020

# 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 <sup>1</sup>	3.2 V	
Capacitance Tolerance	-5% / +15%	
Operating temperature range	-40 ~ 65 ℃ at 3.0V ( -40 ~ 85 ℃ at 2.5V )	
Storage temperature range	-40 ~ 70 ℃	
Endurance Life (65℃)	1,000 Hours	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Life Time (25℃)	10 Years at rated voltage	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Cycle Life (25℃)	500,000 Cycles	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Shelf Life (25℃)	4 Years stored uncharged state	
Certifications	ROHS, REACH, UL810A (Certificate No. : MH46367)	

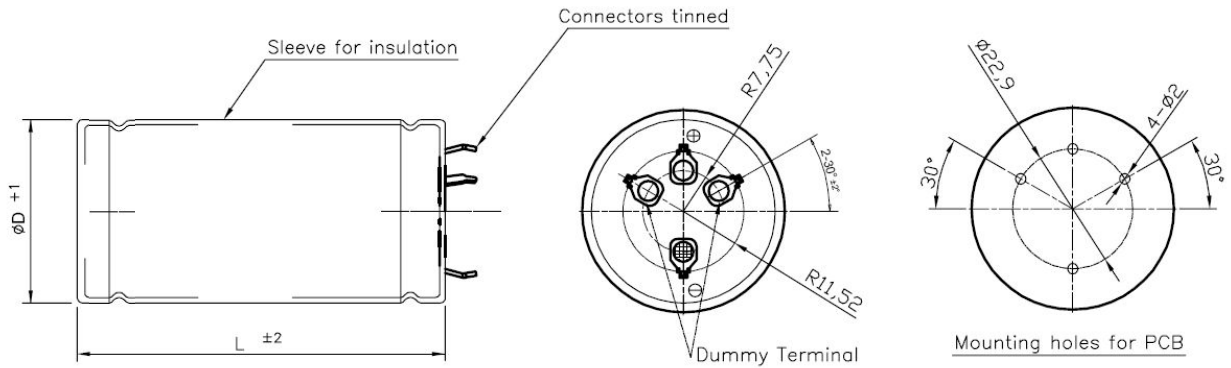
## ■ Standard Ratings

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

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## Physical properties

Dimension in mm (not to scale)



## Standard Ratings

Part number	Max. Continuous Current (A) <sup>2</sup>		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 ( $\pm 2.0$ )	
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.