



Document Number V02_170117

Product Specification

LSUC 002R8S 0100F EA
LSUC 002R8S 0120F 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)	

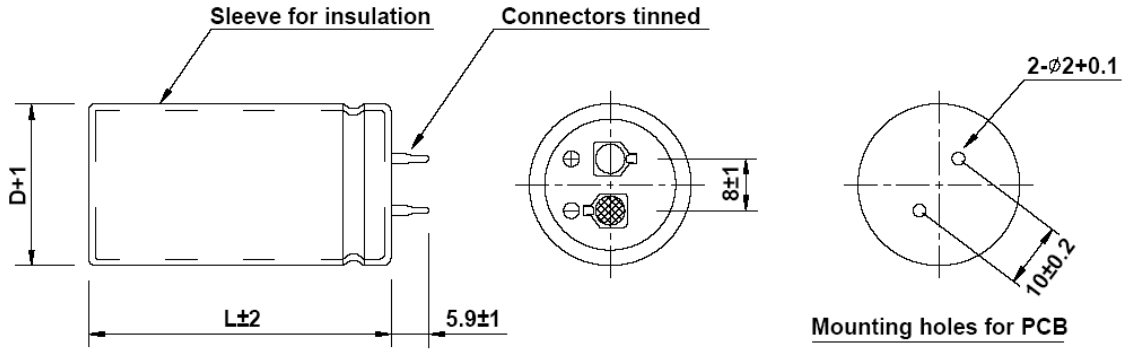
■ Standard Ratings

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 002R8S 0100F EA	100	7	9	74	< 0.3	0.10
LSUC 002R8S 0120F EA	120	7	9	81	< 0.4	0.13

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 002R8S 0100F EA	12.5	20	11.1	22.0	46.0	23
LSUC 002R8S 0120F EA	12.5	20	11.1	22.0	46.0	23

*Remark

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