



Document Number V01_200323

Product Specification

LSUC 002R7C 3000F NH



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	2.7 V	
Max. Voltage ¹	2.85 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, UL810A (Certificate No. : MH46367)	
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)	Max. Continuous Current(A) ³		Thermal Resistance (°C/W) _ Cell Surface
						ΔT=15 °C	ΔT=40 °C	
LSUC 002R7C 3000F NH	3000	0.23	2,396	< 5	3.03	150	245	2.90

*Remark

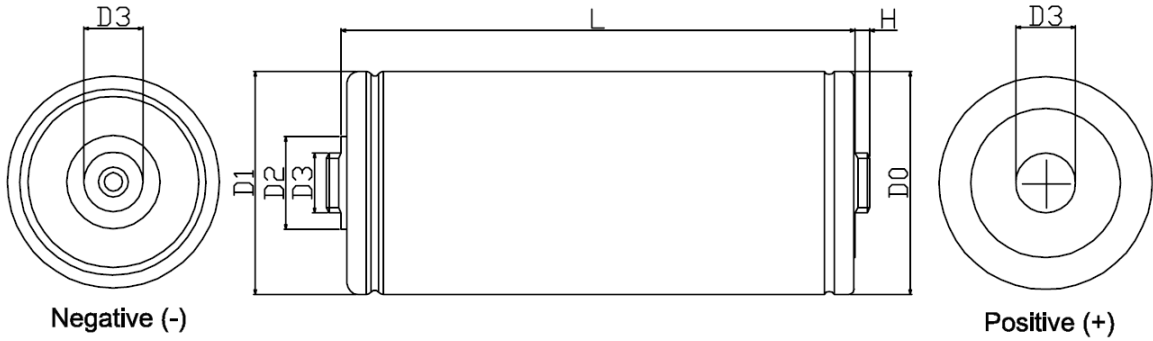
1) Non-repeated, not to exceed 1sec.

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

3) Initial state value.

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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 002R7C 3000F NH ST01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M16, P1.0	4	138	515
LSUC 002R7C 3000F NH WT01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	$\varnothing 14$	3.18	138	515
LSUC 002R7C 3000F NH LT01	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M16, P2.0	14	138	520
LSUC 002R7C 3000F NH LT02	$\varnothing 60$	$\varnothing 60.7$	$\varnothing 25$	M12, P1.75	14	138	520

* Material for weldable terminal : AA6061