LSUC 002R8L 0350F EA

The Ultracapacitor, also known as double-layer capacitor, stores energy by means of a static charge as opposed to a battery

It is used for energy storage applications which undergo very frequent charge and discharge cycles at high current and short duration. It features a wide operating temperature range, making it an ideal energy storage device for extreme environments.

It can be applied in wind power, hybrid systems, industrial automation, power backup and stabilization. Imagination is its only boundary.



PERFORMANCE SPECIFICATIONS

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Rated Voltage(Nominal)	2.8 V	
Surge Voltage	3.0 V	
Capacitance	350 F	
Capacitance Tolerance	0% / + 20%	
Max. ESR DC	3.2 mΩ	
Max. ESR AC (1 kHz)	3.0 mΩ	
Typical ESR AC ¹	2.5 mΩ	
Total Energy	0.38 Wh	
Max. Current ²	231 A	
Leakage Current ²	< 1 mA	

¹Internal control value

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C to 65°C
Operating Humidity (RH)	Up to 95%, condensing
Storage Conditions	–20°C to 25°C Up to 85% RH

LIFE INFORMATION

Endurance Life (65 °C)	1500hr
Capacitance Change ³	< 20%
ESR DC Change ⁴	< 100%
Projected Life (25 °C)	10 Years
Capacitance Change ³	< 20%
ESR DC Change ⁴	< 100%
Projected Cycle Life (25 °C) ⁵	500,000 Cycles
Capacitance Change ³	< 20%
ESR DC Change ⁴	< 100%
Shelf Life (25 $^{\circ}$ C) $^{\circ}$	4 Years

³ Decrease from minimum Capacitance value.

THERMAL SPECIFICATIONS

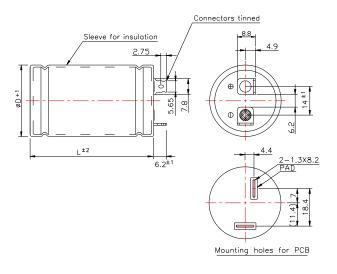
Max. Continuous Current △T=15 °C ⁷	25 A
Max. Continuous Current △T=40 °C ⁷	40 A
Thermal Resistance (°C/W) ⁸	8.0

⁷Initial state value

MECHANICAL SPECIFICATIONS9

D1 + 1.0 mm	35
L ± 2.0 mm	61
Mount Options	Lug
Weight	72 g
Safety Vent	Bottom Notch

 $^{^{\}rm 9}\,{\rm Dimensions}$ and weight may differ with terminals and it may change without notice.



COMPLIANCE SPECIFICATIONS

Certifications	UL810A – MH46367
Environmental	RoHS, REACH
Shock & Vibration	IEC 60068-2-27 : 2008 IEC 60068-2-6 : 2007



 $^{^2}$ The stated maximum peak current should not be used in normal operation and is only provided as a reference value.

⁴ Increase from Max. ESR value.

⁵ Cycle Life may vary for different working conditions. (e.g. voltage or temperature)

⁶ Stored uncharged state under appropriate storage conditions.

⁸The specification is calculated under limited conditions.

DATA SHEET

VERSION HISTORY

Current Version	Previous Version	Date	Author	Change Description
А	-	2017-07-27	Horim Kang	Initial version of Specification
В	А	2020-04-10	Horim Kang	Data sheet amendment
С	В	2021-04-22	Insoo Park	Data Sheet revision

Markings Accessories

- Positive / Negative terminal
- Serial number
- Part number
- Warning marking

Notice : Product dimensions and specifications may change without notice. Please contact LS Mtron for any technical specifications.



