



Part Number	LSUM 016R2C 0500F EA
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# Product specification

LSUM 016R2C 0500F EA

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Reviewed By	J.K. Lee	Date	08. Mar. 2012
Granted By	Y.H. Kwon	Date	08. Mar. 2012



# Product specification

Version	Date	Change Description	Author
V00	08. Mar. 2011	Product specification	-
V01	05. Mar. 2012	Added items of power, energy and safety	T.H. Suh

# Product specification

## ■ Specification

### 1. Primary specification

Part number	Capacitance (F)	Resistance DC (mΩ)	Max. Current (A) <sup>1</sup>	Leakage Current (mA)
LSUM 016R2C 0500F EA	500	1.9	2,100	< 120

### 2. Power & Energy

Part number	Specific power (W/kg)	Specific power at Max efficiency (W/kg)	Specific Energy (Wh/kg)	Stored Energy (Wh)
LSUM 016R2C 0500F EA	3,300	6,800	3.6	18.2

### 3. Standard & Reliability

Rated Voltage	16.2 V			
Max. Voltage <sup>2</sup>	17.1V			
Capacitance Tolerance	-0% / +10%			
Resistance Tolerance	< Spec. Value			
Operating temperature range	-40 ~ 65 °C			
Storage temperature range	-40 ~ 70 °C			
Max. continuous current	ΔT = 15 °C	100 A		
	ΔT = 40 °C	160 A		
Endurance	After 1500 hours application of 2.7V .DC at 65 °C, the capacitor shall meet the following limits.			
	Capacitance change	Within 20% of initially specified value		
	Internal resistance change	Within 100% of initially specified value		
Shelf life	After 1500 hours storage at +65 °C without load shall meet specification of endurance			
Life Time (25°C)	After 10 years at rated voltage and +25 °C			
	Capacitance change	Within 20% of initially specified value		
	Internal resistance change	Within 100% of initially specified value		
Cycle Life (25°C)	After 1,000,000 cycles between rated voltage to half rated voltage at +25 °C			
	Capacitance change	Within 20% of initially specified value		
	Internal resistance change	Within 100% of initially specified value		

### 4. Monitoring

Part number	Temperature	Cell voltage monitoring	Connector	Balancing
LSUM 016R2C 0500F EA	NTC Thermistor (Optional)	-	-	Passive

#### \*Remarks

- 1) Current for 1sec discharge from the rated voltage to the half of it in constant current discharge, do not use as an operating current.
- 2) Non repeated, not to exceed 1sec.

# Product specification

Dimension in mm (not to scale)

## Geometric properties

Part number	Dimension (mm)			Weight (kg)
	Length	Width	Height	
LSUM 016R2C 0500F EA	67.2±1.0	416.2±1.0	156.7±1.0	5.1

