Document Number	V02_170117

Product specification

LSUM 016R2C 0250F EA AG

Product specification

■ Specification

1. Primary specification

Part number	Capacitance (F)	Max. ESR (mΩ)_DC	Max. Current (A) Non-repeated (Calculated value)	Leakage Current (mA)
LSUM 016R2C 0250F EA AG	250	2	1,300	< 3

2. Power & Energy

Part number	Usable Specific Power, P_d (W/kg)[1]	Impedance Match Specific Power, P_{max} (W/kg)[2]	Energy Density (Wh/kg)	Max. Stored Energy (Wh)
LSUM 016R2C 0250F EA AG	4,000	8,400	2.3	9.1

3. Standard & Reliability

Rated Voltage	16.2 V	
Max. Voltage[3]	17.1V	
Maximum series Voltage	750V	
Capacitance Tolerance	0% / +20%	
Operating temperature range	-40 ~ 65 ˚C	
Storage temperature range	-40 ~ 70 ˚C	
Max. continuous current[4]	ΔT = 15 ℃	90A
	ΔT = 40 ℃	150A
Endurance Life (65℃)	1,500 Hours	
	Capacitance change	Within 20% of initially specified value
	ESR change	Within 100% of initially specified value
Projected Life Time (25℃)	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℃)[5]	1,000,000 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	

4. Monitoring

Part number	Temperature sensor	Temperature interface	Connector	Cell voltage monitoring	Balancing
LSUM 016R2C 0250F EA AG	NTC Thermistor	Analog	4 pin connector	Over Voltage Alarm (Optional)	Active or Passive

*Remarks

1) Usable specific power $P_d = \frac{0.12 \times V^2}{ESR \times mass}$

2) Impedance match specific power $P_{max} = \frac{V^2}{4 \times ESR \times mass}$

3) Non repeated, not to exceed 1sec.

4) Initial state value.

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

Product specification

■ Safety & Physical Protection

Part number	Isolation voltage (DC)	Short circuit current(A)	Power Terminals	Recommended Torque - Terminal	Environmental Protection	Shock & vibration Protection
LSUM 016R2C 0250F EA AG	2.5kV	8,100	M8 / M10	20 / 30 Nm	TBD	TBD

Dimension in mm (not to scale)

■ Geometric properties

Part number	Dimension (mm)			Max. Weight (kg)
	Length	Width	Height	
LSUM 016R2C 0250F EA AG	311 ± 2	166 ± 1	70 ± 1	3.9