



Single cell 5000 F/ 2.5 V

Series/Type: Ordering code: B49410B2506Q000 Date: March 2005

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UltraCap[®]

Single cell, 5000 F/ 2.5 V

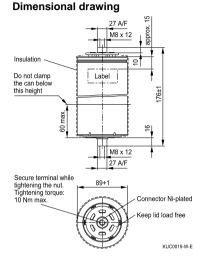
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Features

- Screw terminals M8 × 12
- Power type
- Insulated with polyurethane
- Short-circuit-proof

Note

- Do not put into fire!
- Do not open the capacitor!
- To avoid health and fire hazards, do not operate the capacitor beyond the voltage or temperature limits given in the data sheet. Any excess may also result in a reduction of lifetime.
- Please pay also attention to the transport and waste disposal instructions in chapter "Cautions".



Dimensions in mm

Electrical	specifications
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Rated capacitance	(T _A = 25 °C; DCC) ¹⁾	C _R	5000	F
Tolerance of C _R			-10/+30	%
Rated voltage	(T _A = 25 °C)	V _R	2.5	V
Capacity			3500	mAh
Specific power	(IEC 62391-2)		2.0	kW/kg
Specific power	(IEC 62391-2)		2.3	kW/I
Stored energy	$(V = V_R)$	Е	15625	J
Specific energy	$(V = V_R)$		4.1	Wh/kg
Specific energy	$(V = V_R)$		4.7	Wh/I
Surge voltage		V _{surge}	2.8	V
Maximum series resistance	(T _A = 25 °C; 1 kHz)	ESR	180	μΩ
Maximum series resistance	(T _A = 25 °C; 50 mHz)	ESR _{DC}	350	μΩ
Weight			1050	g
Volume	(without terminals)		0.93	1
Operating temperature range		T _{op}	-30/+70	°C
Storage temperature	(V = 0 V)	T _{st}	-40/+70	°C
Lifetime (hours) 2)	$(T_A = 25 \ ^{\circ}C; V = V_B)$		90000	h
Lifetime (cycles) 3)	(T _A = 25 °C; I = 100 A)		500000	cycles

1) DCC: discharging with constant current.

2) Requirements: $|\Delta C/C_R| \le 30\%$, ESR ≤ 2 times of specified limit, $I_{leak} \le 2$ times of initial value.

3) Requirements: $|\Delta C/C_R| \le 30\%$, ESR ≤ 2 times of specified limit, $I_{leak} \le 2$ times of initial value (1 cycle: charging to V_R , 30 s rest, discharging to $V_R/2$, 30 s rest).