



UltraCap[®]

Single cell
2700 F/ 2.5 V

Series/Type:

Ordering code: B49410B2276Q000

Date: March 2005

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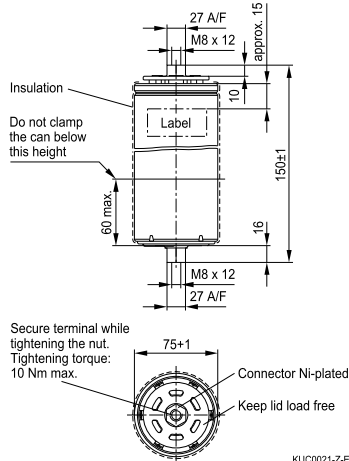
Features

- 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".

Dimensional drawing



Dimensions in mm

Electrical specifications

Rated capacitance	($T_A = 25\text{ °C}$; DCC) ¹⁾	C_R	2700	F
Tolerance of C_R			-10/+30	%
Rated voltage	($T_A = 25\text{ °C}$)	V_R	2.5	V
Capacity			1900	mAh
Specific power	(IEC 62391-2)		2.7	kW/kg
Specific power	(IEC 62391-2)		3.6	kW/l
Stored energy	($V = V_R$)	E	8438	J
Specific energy	($V = V_R$)		3.4	Wh/kg
Specific energy	($V = V_R$)		4.5	Wh/l
Surge voltage		V_{surge}	2.8	V
Maximum series resistance	($T_A = 25\text{ °C}$; 1 kHz)	ESR	210	μΩ
Maximum series resistance	($T_A = 25\text{ °C}$; 50 mHz)	ESR _{DC}	400	μΩ
Weight			690	g
Volume	(without terminals)		0.53	l
Operating temperature range		T_{op}	-30/+70	°C
Storage temperature	($V = 0\text{ V}$)	T_{st}	-40/+70	°C
Lifetime (hours) ²⁾	($T_A = 25\text{ °C}$; $V = V_R$)		90000	h
Lifetime (cycles) ³⁾	($T_A = 25\text{ °C}$; $I = 100\text{ A}$)		500000	cycles

1) DCC: discharging with constant current.

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

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