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UltraCap[®]

Single cell
200 F/ 2.5 V

Series/Type:
Ordering code: B49410A2205Q000
Date: March 2005

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UltraCap®

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Single cell, 200 F/ 2.5 V

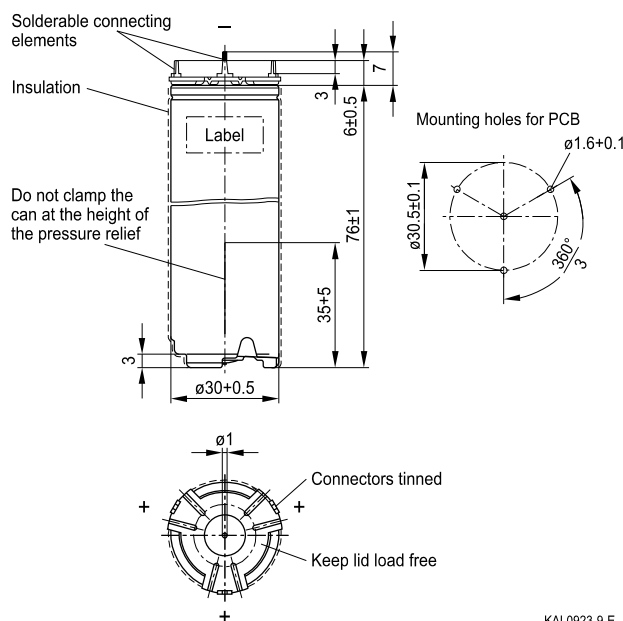
Features

- Solder pin/4
- 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



KAL0923-9-E

Dimensions in mm

Electrical specifications

Rated capacitance	$(T_A = 25\text{ °C}; \text{DCC})^1$	C_R	200	F
Tolerance of C_R			-10/+30	%
Rated voltage	$(T_A = 25\text{ °C})$	V_R	2.5	V
Capacity			140	mAh
Specific power	(IEC 62391-2)		3.3	kW/kg
Specific power	(IEC 62391-2)		3.9	kW/l
Stored energy	$(V = V_R)$	E	625	J
Specific energy	$(V = V_R)$		2.7	Wh/kg
Specific energy	$(V = V_R)$		3.1	Wh/l
Surge voltage		V_{surge}	2.8	V
Maximum series resistance	$(T_A = 25\text{ °C}; 1\text{ kHz})$	ESR	1.5	mΩ
Maximum series resistance	$(T_A = 25\text{ °C}; 50\text{ mHz})$	ESR _{DC}	3.5	mΩ
Weight			65	g
Volume			0.056	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⁾	$(T_A = 25\text{ °C}; I = 8\text{ A})$		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).