![EPCOS logo]

UltraCap®

Single cell
200 F/ 2.5 V

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

**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
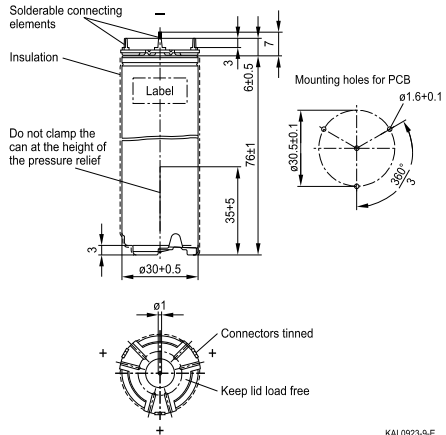
Dimensions in mm

Electrical specifications

Rated capacitance	$(T_A = 25\ °C; DCC)$ [1]	C_R	200	F
Tolerance of C_R			$-10/+30$	%
Rated voltage	$(T_A = 25\ °C)$	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	$(T_A = 25\ °C; 1\ kHz)$	ESR	1.5	mΩ
Maximum series resistance	$(T_A = 25\ °C; 50\ mHz)$	ESR_{DC}	3.5	mΩ
Weight			65	g
Volume			0.056	l
Operating temperature range		T_{op}	$-30/+70$	°C
Storage temperature	$(V = 0\ V)$	T_{st}	$-40/+70$	°C
Lifetime (hours) [2]	$(T_A = 25\ °C; V = V_R)$		90000	h
Lifetime (cycles) [3]	$(T_A = 25\ °C; I = 8\ A)$		500000	cycles

1) DCC: discharging with constant current.

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

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