EPCOS

UltraCap®

Single cell
200 F/ 2.5 V

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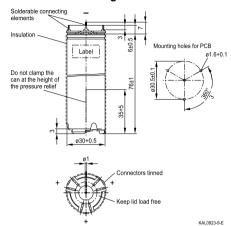Date:　　　　　　　March 2005

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

Solderable connecting elements

Insulation

Label

Do not clamp the can at the height of the pressure relief

Mounting holes for PCB
ø1.6+0.1

ø30.5±0.1

Connectors tinned

Keep lid load free

KAL0923-9-E

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: |ΔC/C_R| ≤ 30%, ESR ≤ 2 times of specified limit, I_{leak} ≤ 2 times of initial value.

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