Excellent Integrated System Limited

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EPCOS (TDK)
B49410A2115Q000

For any questions, you can email us directly:
sales@integrated-circuit.com

UltraCap®

Single cell
110 F/ 2.5 V

Series/Type:
Ordering code: **B49410A2115Q000**
Date: March 2005

EPCOS

UltraCap® **B49410A2115Q000**

Single cell, 110 F/ 2.5 V

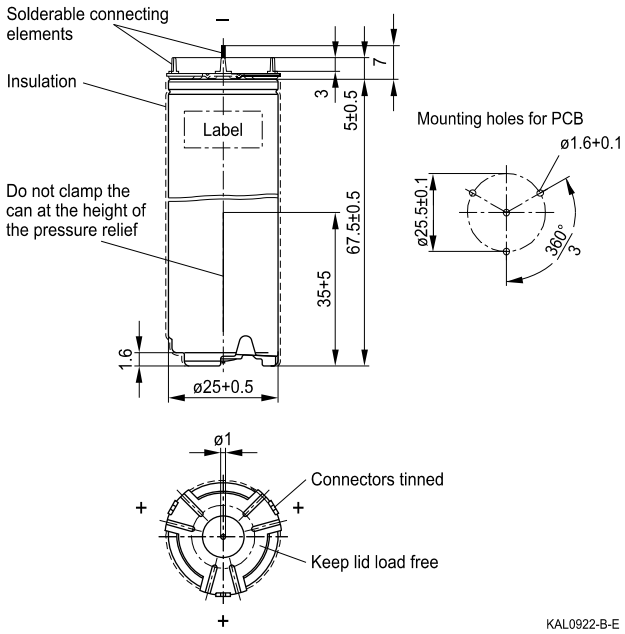
Features

- 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	110	F
Tolerance of C_R			−10/+30	%
Rated voltage	(T_A = 25 °C)	V_R	2.5	V
Capacity			80	mAh
Specific power	(IEC 62391-2)		2.5	kW/kg
Specific power	(IEC 62391-2)		3.1	kW/l
Stored energy	($V = V_R$)	E	344	J
Specific energy	($V = V_R$)		2.2	Wh/kg
Specific energy	($V = V_R$)		2.8	Wh/l
Surge voltage		V_{surge}	2.8	V
Maximum series resistance	(T_A = 25 °C; 1 kHz)	ESR	3	mΩ
Maximum series resistance	(T_A = 25 °C; 50 mHz)	ESR_{DC}	7	mΩ
Weight			43	g
Volume			0.035	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 = 4 A)		500000	cycles

1) DCC: discharging with constant current.

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

3) Requirements: $|\Delta C/C_R| \leq 30\%$, ESR ≤ 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).