

## **Excellent Integrated System Limited**

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## **UltraCap<sup>®</sup>**

**Single cell  
110 F/ 2.5 V**

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

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## UltraCap®

**B49410A2115Q000**

### Single cell, 110 F / 2.5 V

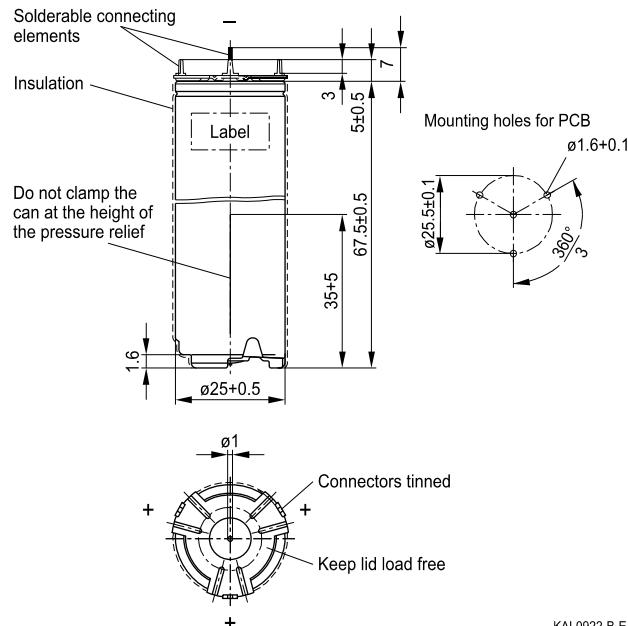
#### Features

- 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



KAL0922-B-E

Dimensions in mm

#### Electrical specifications

Rated capacitance	( $T_A = 25^\circ\text{C}$ ; DCC) <sup>1)</sup>	$C_R$	110	F
Tolerance of $C_R$			-10/+30	%
Rated voltage	( $T_A = 25^\circ\text{C}$ )	$V_R$	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		$V_{\text{surge}}$	2.8	V
Maximum series resistance	( $T_A = 25^\circ\text{C}$ ; 1 kHz)	$ESR$	3	$\text{m}\Omega$
Maximum series resistance	( $T_A = 25^\circ\text{C}$ ; 50 mHz)	$ESR_{\text{DC}}$	7	$\text{m}\Omega$
Weight			43	g
Volume			0.035	l
Operating temperature range		$T_{\text{op}}$	-30/+70	$^\circ\text{C}$
Storage temperature	( $V = 0\text{ V}$ )	$T_{\text{st}}$	-40/+70	$^\circ\text{C}$
Lifetime (hours) <sup>2)</sup>	( $T_A = 25^\circ\text{C}$ ; $V = V_R$ )		90000	h
Lifetime (cycles) <sup>3)</sup>	( $T_A = 25^\circ\text{C}$ ; $I = 4\text{ A}$ )		500000	cycles

1) DCC: discharging with constant current.

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

3) Requirements:  $|\Delta C/C_R| \leq 30\%$ ,  $ESR \leq 2$  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).