



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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UltraCap[®]

Single cell
200 F/ 2.5 V

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

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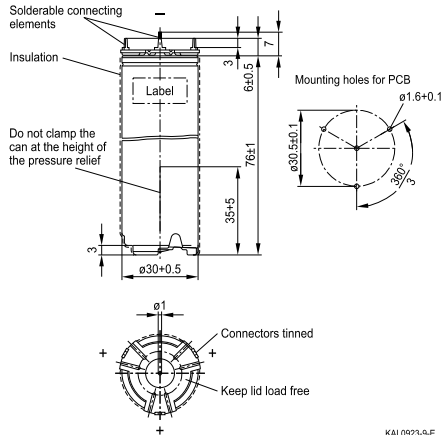
Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

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	$(T_A = 25\text{ }^\circ\text{C}; \text{DCC})^1$	C_R	200	F
Tolerance of C_R			-10/+30	%
Rated voltage	$(T_A = 25\text{ }^\circ\text{C})$	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	$(T_A = 25\text{ }^\circ\text{C}; 1\text{ kHz})$	ESR	1.5	m Ω
Maximum series resistance	$(T_A = 25\text{ }^\circ\text{C}; 50\text{ mHz})$	ESR _{DC}	3.5	m Ω
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⁾	$(T_A = 25\text{ }^\circ\text{C}; V = V_R)$		90000	h
Lifetime (cycles) ³⁾	$(T_A = 25\text{ }^\circ\text{C}; I = 8\text{ A})$		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).