



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
1800 F/ 2.5 V

Series/Type:

Ordering code: B49410B2186Q000

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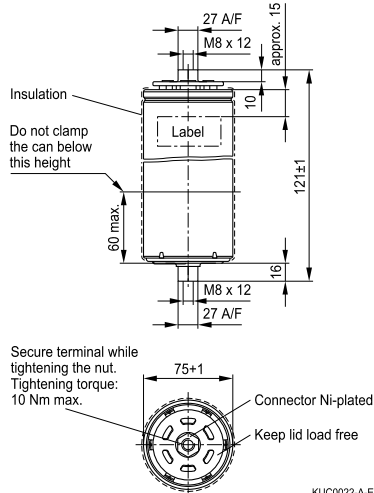
Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

Single cell, 1800 F/ 2.5 V
Features

- Screw terminal M8 × 12
- 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 | ($T_A = 25\text{ °C}$; DCC) ¹⁾ | C_R | 1800 | F |
| Tolerance of C_R | | | -10/+30 | % |
| Rated voltage | ($T_A = 25\text{ °C}$) | V_R | 2.5 | V |
| Specific power | (matched load) | | 10 | kW/kg |
| Specific power | (matched load) | | 13 | kW/l |
| Stored energy | ($V = V_R$) | E | 5625 | J |
| Specific energy | ($V = V_R$) | | 2.9 | Wh/kg |
| Specific energy | ($V = V_R$) | | 3.9 | Wh/l |
| Surge voltage | | V_{surge} | 2.8 | V |
| Maximum series resistance | ($T_A = 25\text{ °C}$; 1 kHz) | ESR | 300 | $\mu\Omega$ |
| Maximum series resistance | ($T_A = 25\text{ °C}$; 50 mHz) | ESR _{DC} | 600 | $\mu\Omega$ |
| Weight | | | 540 | g |
| Volume | (without terminals) | | 0.40 | l |
| Operating temperature range | | T_{op} | -30/+70 | °C |
| Storage temperature | ($V = 0\text{ V}$) | T_{st} | -40/+70 | °C |
| Lifetime (hours) ²⁾ | ($T_A = 25\text{ °C}$; $V = V_R$) | | 90000 | h |
| Lifetime (cycles) ³⁾ | ($T_A = 25\text{ °C}$; $I = 75\text{ A}$) | | 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).