



UltraCap[®]

Single cell
1200 F/ 2.5 V

Series/Type:

Ordering code: B49410B2126Q000

Date: March 2005

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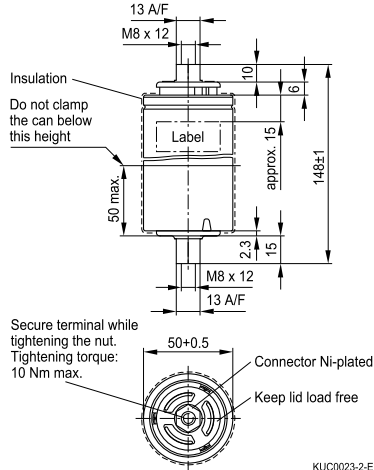
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Single cell, 1200 F/ 2.5 V
Features

- 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


KUC0023-2-E

Dimensions in mm

Electrical specifications

| | | | | |
|---------------------------------|--|--------------------|---------|-------------|
| Rated capacitance | ($T_A = 25\text{ °C}$; DCC) ¹⁾ | C_R | 1200 | F |
| Tolerance of C_R | | | -10/+30 | % |
| Rated voltage | ($T_A = 25\text{ °C}$) | V_R | 2.5 | V |
| Capacity | | | 830 | mAh |
| Specific power | (IEC 62391-2) | | 3.0 | kW/kg |
| Specific power | (IEC 62391-2) | | 4.3 | kW/l |
| Stored energy | ($V = V_R$) | E | 3750 | J |
| Specific energy | ($V = V_R$) | | 3.2 | Wh/kg |
| Specific energy | ($V = V_R$) | | 4.4 | Wh/l |
| Surge voltage | | V_{surge} | 2.8 | V |
| Maximum series resistance | ($T_A = 25\text{ °C}$; 1 kHz) | ESR | 350 | $\mu\Omega$ |
| Maximum series resistance | ($T_A = 25\text{ °C}$; 50 mHz) | ESR _{DC} | 750 | $\mu\Omega$ |
| Weight | | | 330 | g |
| Volume | (without terminals) | | 0.23 | 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⁾ | ($T_A = 25\text{ °C}$; $I = 50\text{ A}$) | | 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).