



## UltraCap<sup>®</sup>

Single cell  
1200 F/ 2.5 V

**Series/Type:**  
**Ordering code:** B49410B2126Q000  
**Date:** March 2005

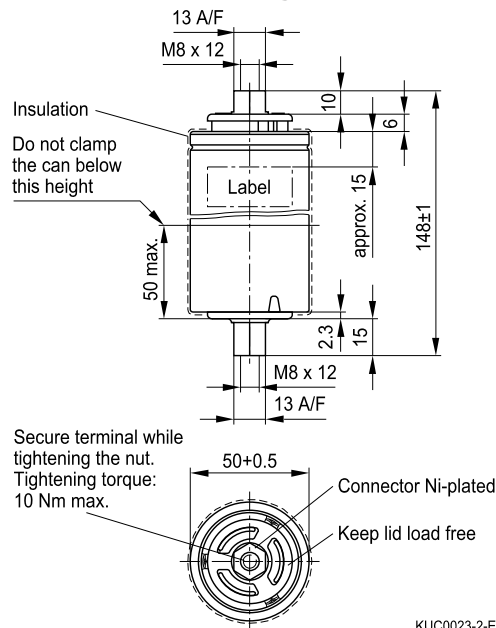
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**Features**

- 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) <sup>1)</sup>	$C_R$	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		$V_{\text{surge}}$	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	$^{\circ}\text{C}$
Storage temperature	( $V = 0\text{ V}$ )	$T_{st}$	-40/+70	$^{\circ}\text{C}$
Lifetime (hours) <sup>2)</sup>	( $T_A = 25\text{ °C}$ ; $V = V_R$ )		90000	h
Lifetime (cycles) <sup>3)</sup>	( $T_A = 25\text{ °C}$ ; $I = 50\text{ A}$ )		500000	cycles

1) DCC: discharging with constant current.

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

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