



Single cell 1800 F/ 2.5 V

Series/Type: Ordering code: B49410B2186Q000 Date: March 2005

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# **UltraCap**<sup>®</sup>

### Single cell, 1800 F/ 2.5 V

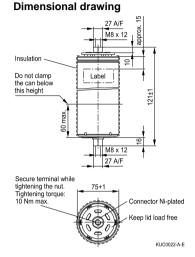
#### B49410B2186Q000

### 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".



## Dimensions in mm

Electrical	specifications
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Rated capacitance	(T <sub>A</sub> = 25 °C; DCC) <sup>1)</sup>	C <sub>B</sub>	1800	F
•	$(1_{A} = 23^{\circ} 0, 000)^{\circ}$	OR	-10/+30	%
Tolerance of C <sub>R</sub>				
Rated voltage	(T <sub>A</sub> = 25 °C)	V <sub>R</sub>	2.5	V
Capacity			1300	mAh
Specific power	(IEC 62391-2)		2.3	kW/kg
Specific power	(IEC 62391-2)		3.2	kW/I
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/I
Surge voltage		$V_{\text{surge}}$	2.8	V
Maximum series resistance	(T <sub>A</sub> = 25 °C; 1 kHz)	ESR	300	μΩ
Maximum series resistance	(T <sub>A</sub> = 25 °C; 50 mHz)	$ESR_{DC}$	600	μΩ
Weight			540	g
Volume	(without terminals)		0.40	I
Operating temperature range		T <sub>op</sub>	-30/+70	°C
Storage temperature	(V = 0 V)	T <sub>st</sub>	-40/+70	°C
Lifetime (hours) <sup>2)</sup>	(T <sub>A</sub> = 25 °C; V = V <sub>B</sub> )		90000	h
Lifetime (cycles) 3)	(T <sub>A</sub> = 25 °C; I = 75 A)		500000	cycles

1) DCC: discharging with constant current.

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

3) Requirements:  $|\Delta C/C_R| \le 30\%$ , ESR  $\le 2$  times of specified limit,  $I_{leak} \le 2$  times of initial value (1 cycle: charging to  $V_{Rr}$  30 s rest, discharging to  $V_{R/2}$ , 30 s rest).