



UltraCap[®]

Single cell
2700 F/ 2.5 V

Series/Type:

Ordering code: B49410B2276Q000

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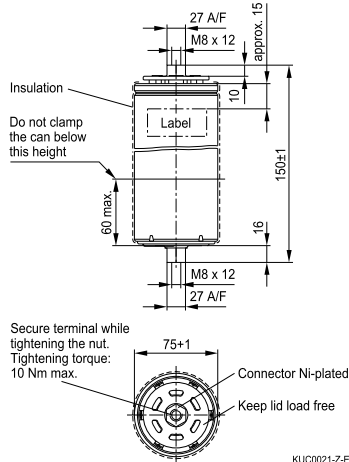
Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

Features

- Screw terminals 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	2700	F
Tolerance of C_R			-10/+30	%
Rated voltage	($T_A = 25\text{ °C}$)	V_R	2.5	V
Capacity			1900	mAh
Specific power	(IEC 62391-2)		2.7	kW/kg
Specific power	(IEC 62391-2)		3.6	kW/l
Stored energy	($V = V_R$)	E	8438	J
Specific energy	($V = V_R$)		3.4	Wh/kg
Specific energy	($V = V_R$)		4.5	Wh/l
Surge voltage		V_{surge}	2.8	V
Maximum series resistance	($T_A = 25\text{ °C}$; 1 kHz)	ESR	210	$\mu\Omega$
Maximum series resistance	($T_A = 25\text{ °C}$; 50 mHz)	ESR _{DC}	400	$\mu\Omega$
Weight			690	g
Volume	(without terminals)		0.53	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⁾	($T_A = 25\text{ °C}$; $I = 100\text{ A}$)		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).