

PW Series high power SuperCapacitors



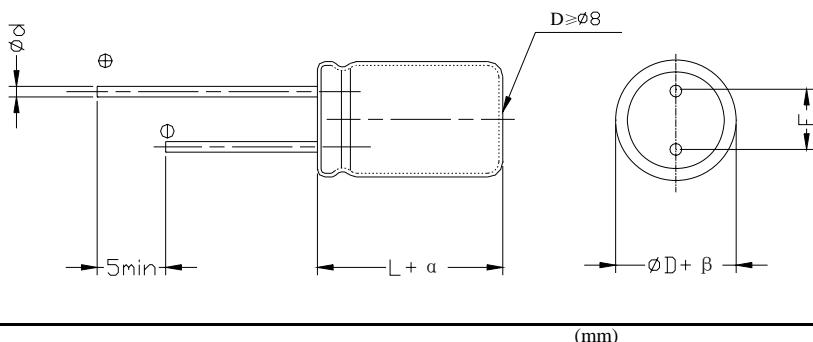
Features

- Case diameter: : Φ 8mm – Φ 22mm, capacitance 0.5~100F
- Ultralow resistance and long life time.
- Available for high power density situation and consumer electronics.
- Adapted to the ROHS directive (2002/95/EC).

Specifications

Items	Characteristics	
Operating Temperature Range	-40°C ~+60°C	
Storage Temperature Range	-40~+70°C	
Rated Voltage Range	2.7V	
Nominal Capacitance Range	0.5 ~ 100 F	
Nominal Capacitance Tolerance	$\pm 20\%$ (25°C)	
Leakage Current	$I \leq 0.01C_R V_R$ or 3(mA) Whichever is greater(at 25°C, after 72hours) C_R : Nominal Capacitance (F) V_R : Rated voltages (V)	
Load Life	After 1000 hours' application of rated voltage at 60°C, the capacitor shall meet the following requirement:	
	Capacitance Change	Within $\pm 30\%$ of the initial value (16V: within $\pm 25\%$ of the initial value)
	ESR(1KHz)	Not more than 200% of the initial specified value
	Leakage Current	Not more than the initial specified value
Shelf Life	After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above	
Cycles life	The capacitors shall be charged/discharged with constant current between the U_R and $1/2U_R$ maintained at 25°C for 500000cycles. After removing the current at room temperature, they meet the following requirement.	
	Capacitance Change	Within $\pm 30\%$ of the initial value
	ESR	Not more than two times of the initial specified value
	Leakage Current	Not more than the initial specified value

Dimensions



■ Nominal capacitance, rated voltage, ESR and case size table

F V	2.7V					
	D×L mm	ESR mΩ 1KHz	Lc mA 72h	D×L mm	ESR mΩ 1KHz	Lc mA 72h
0.5	8×12	600	0.005			
1				8×12	300	0.008
2	10×20	200	0.010	8×20	200	0.010
4.7	12×20	80	0.012	10×20	100	0.012
10	10×30	60	0.030	12.5×25	50	0.030
15	12.5×34	40	0.035			
22	16×34	35	0.045			
30				18×34	30	0.065
50	18×41	20	0.075			
70				18×45	20	0.100
90	22×45	18	0.250			
100				22×45	16	0.300

Load Life Data

