

PC10 PC10-90 PC10-270



Now containing Maxwell Technologies patented electrode

CAPACITANCE				
Nominal capacitance	10 F			
Tolerance capacitance	-10/+20%			
VOLTAGE	10/12070			
Rated voltage	2.5 V			
Surge voltage	2.7 V			
RESISTANCE				
ESR, DC Specification is as-built value. Value after test is higher. Lifespan and Cycles specifications are from as-built specification.	0.18 Ω			
ESR, AC	130 mΩ			
Resistance tolerance	Max.			
TEMPERATURE				
Operating temperature range	-40°C to +70°C			
Storage temperature range	-40°C to +85°C			
POWER				
Pd	660 W/kg			
Pv	1390 W/L			
ENERGY				
Emax	6.9 mAh			
LIFESPAN				
Lifetime ΔC < 20% decrease ESR < 100% increase	10 years (2.5V, 25°C)			
Endurance $\Delta C < 20\%$ decrease from rated ESR < 100% increase from rated	3,000 hours (2.5V, 70°C)			
CYCLES				
Cycles	500,000			
Capacitance change	ΔC < 20% decrease			
Internal resistance	ESR < 100% increase			
CURRENT				
Leakage current	0.04 mA			
Short circuit current (Isc)	19 A			
Maximum continuous current	2.5 A			

SIZE	
Dimensions (L x W x H) (mm) (±0.5mm)	See drawings.
Weight	6.3g

FEATURES AND BENEFITS

- Over 500,000 duty cycles
- 10 year life capability
- · Hermetically sealed, stainless steel construction
- · Low profile prismatic design
- · Higher energy vs. electrolytic capacitors
- · Higher power vs. batteries
- UL recognized N°
- · RoHS compliant

APPLICATIONS

- · Automatic meter readers
- · Automatic subsystems
- Back up power for soft shut down requirements
- · Digital cameras and consumer electronics
- · Wireless transmissions
- NASA space qualified

MARKINGS

Modules are marked with the following information: Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal, warning marking, serial number.

ADDITIONAL TECHNICAL INFORMATION

Capacitance and ESR, DC measured per document no. 1007239, available at www.maxwell.com.

I_C = leakage current after 72 hours at 25°C

$$lsc = short circuit current = \frac{V_{Rated}}{ESRDC}$$

$$Emax = \frac{\frac{1}{2}CV^2}{3,600 \text{ x mass}}$$

$$Pmax = \frac{V^2}{4R (1khz)}$$

$$mass$$

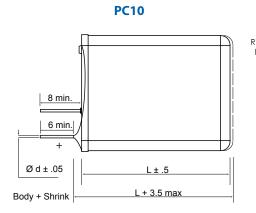
$$Pd = \frac{0.12V^2}{R (DC)}$$
mass

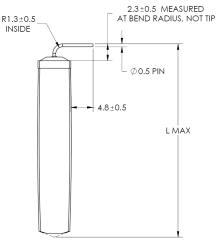


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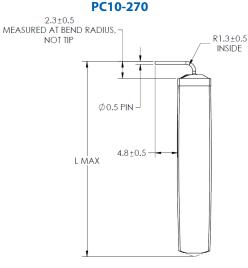


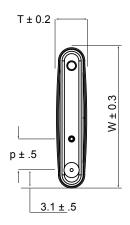
DIMENSIONS (mm)





PC10-90









Part Description	W-170	Dimensions in millimeters					Do also we set u
Vol (I)	VOI (I)	L	w	Т	d	р	Package qty.
PC10	0.003	29.6	23.6	4.8	0.5	5.1	1920
PC10-90	0.003	35.9	23.6	4.8	0.5	5.1	1824
PC10-270	0.003	35.9	23.6	4.8	0.5	5.1	1824

Product dimensions are for reference only unless otherwise identified. Product dimensions and specifications may change without notice.

Please contact Maxwell Technologies directly for any technical specifications critical to application.

MOUNTING RECOMMENDATIONS

All leads are tinned from 1.5mm of capacitor body. It is recommended that parts stay within protective packaging until ready to use. Parts may be soldered or wave soldered. Request supplemental information related to mounting instructions if necessary. Components should not be operated outside recommended limits.



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