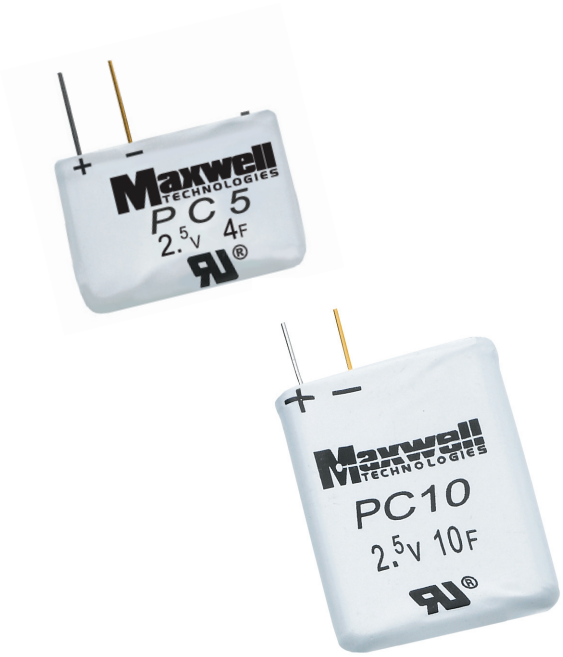
Series: PC

Prismatic, solder lead type

Features:

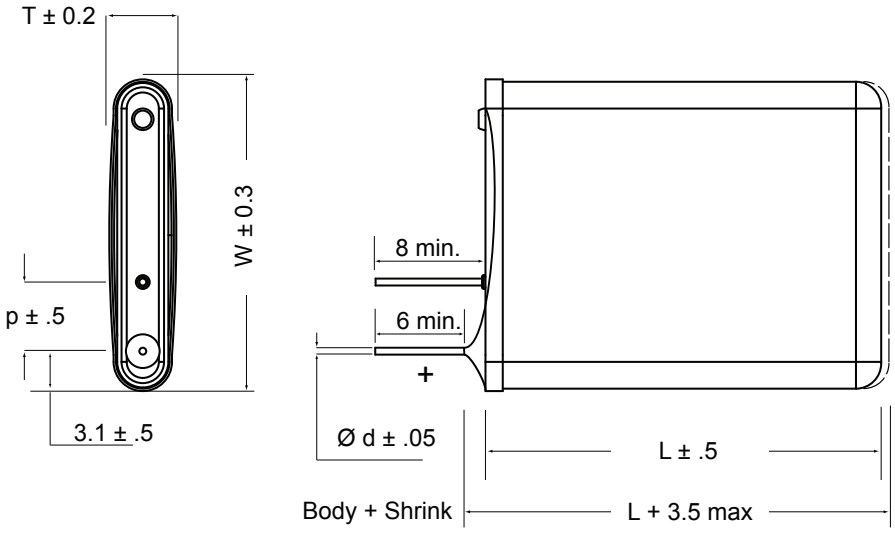
- Over 500,000 duty cycles
- 10 year life capability
- Hermetically sealed, stainless steel construction
- Low profile prismatic design
- Higher energy vs. electrolytic
- Higher power vs. batteries
- UL recognized
- RoHS compliant
- NASA space qualified



Applications:

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

Dimensions



Case Size	Dimensions in millimeters					Weight [g]	Vol. [l]	Typical package qty.
	L	W	T	d	p			
PC5	14	23.6	4.8	0.5	5.1	4	0.0015	500
PC10	29.6	23.6	4.8	0.5	5.1	6.3	0.003	1920

Product dimensions and specifications may change without notice. Please contact Maxwell Technologies directly for any technical specifications critical to application.

› PC Series Specifications:

	Product Specification			
	PC5	PC10	Tolerance	Standard
Mounting	Solder			
Capacitance CR [F]	4	10	± 20%	
Voltage, UR	2.5			
Internal Resistance, DC [ohm]	0.4	0.18	± 25%	
Internal Resistance 1kHz [ohm]	0.29	0.13	± 25%	
Rated Current [A]	1	2.5		5s discharge to ½ U_R
Short Circuit Current, Isc [A]	8	19		Caution, current possible with short circuit from U_R
Leakage Current [mA]	0.02	0.04		72 hrs, 25°C. Initial leakage current can be higher
Operating Temp. Rance [C]	-40° - 70°			
Storage Temp Range [C]	-40° - 85			
Endurance, Capacitance [F]	< 20% decrease			1000 hrs @ U_R and 70°C
Endurance, Resistance [ohm]	< 40% increase			
maximum Energy, E_{max} [mAh]	2.7	6.9		Full discharge from U_R
Power, Pd [W/kg]	470	660		See additional technical information
Power, Pv [W/l]	1250	1390		See additional technical information
Life Time	ΔC <20% decrease, ESR < 100% increase			From initial value after 10y @25°C
Cycle Life	ΔC <20% decrease, ESR < 100% increase			From intial value after 500k cycles @ 25°C (I=0.5A) Cycle defined as nominal charge to half charge states cycle.

› Markings: Capacitors are marked with the following information

Rated capacitance, rated voltage, product number, name of manufacturer, positive and negative terminal, warning marking, UL mark.

› Mounting Recommendations:

All components are tinned with 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 neccessary.

Components should not be operated outside recommended limits.

› Additional Technical Information:

$P_d = (0.12 \times E^2/R_d) / M$ Where E = charge voltage (U_R)

M = capacitor weight (kg)

R_d = internal resistance (DC)

$P_v = (0.12 \times E^2/R_d) / V$ Where V = capacitor volume (L)

US Patents: 5,621,607; 5,777,428; 5,862,035; 5,907,472; 6,233,135; 6,449,139

Worldwide Headquarters

MAXWELL TECHNOLOGIES
9244 Balboa Avenue • San Diego, 92123 CA, USA
PHONE: +(1) 858 503 3300
FAX: +(1) 858 503 3301
EMAIL: info@maxwell.com

European Office

MAXWELL TECHNOLOGIES SA
CH-1728 Rossens • Switzerland
PHONE: +41 (0) 26 411 85 00
FAX: +41 (0) 26 411 85 05
EMAIL: info@maxwell.com

Maxwell TECHNOLOGIES™

www.maxwell.com