

Prismatic, connector type

Series: PCM



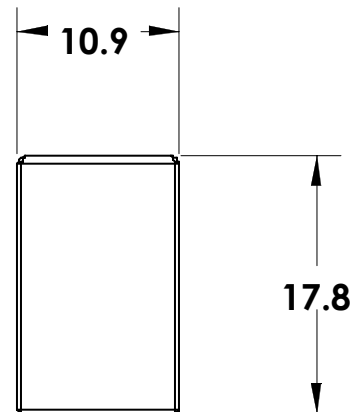
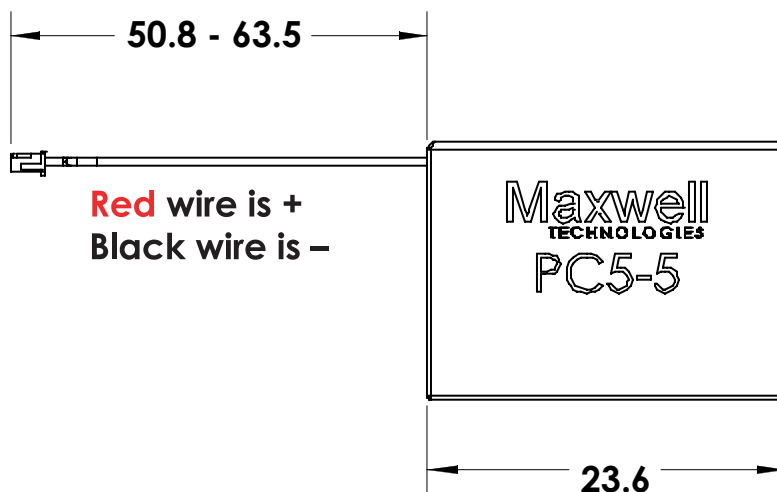
Features:

- › Over 500,000 duty cycles
- › 10 year life capability
- › Hermetically sealed, stainless steel construction
- › Linear voltage balanced cells
- › Higher energy vs electrolytic
- › Higher power vs. batteries
- › UL recognized

Applications:

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

Dimensions:



Case size	Dimensions, mm			Weight [g]	Vol. [l]	Typical package qty
	L	W	T			
PC5-5	23.6	17.8	10.9	8	0.003	400

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

› Specifications:

	Product Specification		
	PC5-5	Tolerance	Standard
Mounting	JST-ZHR-2		
Capacitance, C _R [F]	2.0	+/- 20%	
Voltage, U _R	5		
Internal resistance, DC [ohm]	0.8	+/- 25 %	
Internal resistance, 1 kHz [ohm]	0.58	+/- 25 %	
Rated current, [A]	1		5s discharge to 1/2 U _R
Short circuit current, I _{sc} [A]	8		Caution , current possible with short circuit from U _R
Leakage current [mA]	0.02		72 hrs, 25°C
Operating temp. range [C]	-40 to 65		
Storage temp. range [C]	-40 to 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		Full discharge from U _R
Power, P _d [W/kg]	120		See additional technical information
Power, P _v [W/l]	312		See additional technical information
Life Time	△ C < 20% decrease, ESR < 200% increase		from initial value after 10y @ 25°C
Cycle Life	△ C < 20% decrease, ESR < 200% increase		from initial value after 500K cycles @ 25°C (I = 0.5A)

› 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:

Components should not be operated outside recommended limits.
Two pin JST connector (Model ZHR-2).

› Additional Technical Information:

$$P_d = (0.12 \times E^2 / R_d) / M \quad \text{where } E = \text{charge voltage (U}_R\text{), } R_d = \text{internal resistance (DC)}$$

$$M = \text{capacitor weight (kg)}$$

$$P_v = (0.12 \times E^2 / R_d) / V \quad \text{where } V = \text{capacitor volume (l)}$$

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

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