

## Prismatic, connector type

**Series: PCM** 

# BESTCAP® ULTRACAPACITORS

#### > Features:

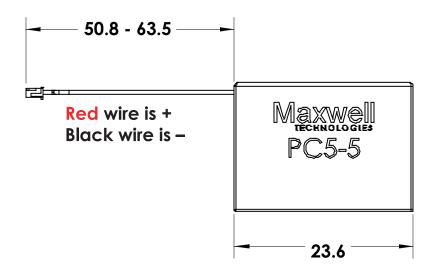
- > Over 500,000 duty cycles
- > 10 year life capability
- > Hermetically sealed, stainless steel construction
- Linear voltage balanced cells
- > Higher energy vs electrolytic
- > Higher power vs. batteries
- > UL recognized

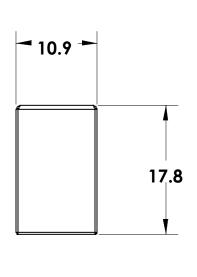


### Applications:

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

#### > Dimensions:





	Dimensions, mm					Typical
Case size	L	W	Т	Weight [g]	Vol. [l]	package qty
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 <sub>R</sub> [F]	2.0	+/- 20%			
Voltage, U <sub>R</sub>	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 <sub>R</sub>		
Short circuit current, I <sub>sc</sub> [A]	8		Caution, current possible with short circuit from U <sub>R</sub>		
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 <sub>R</sub> and 70°C		
Endurance, Resistance [ohm]	< 40% increase		1000 HIS @ OR AND 70 C		
Maximum energy, E <sub>max</sub> [mAh]	2.7		Full discharge from U <sub>R</sub>		
Power, P <sub>d</sub> [W/kg]	120		See additional technical information		
Power, P <sub>v</sub> [W/I]	3	12	See additional technical information		
Life Time	$\triangle$ C < 20% decrease, ESR < 200% increase		from initial value after 10y @ 25°C		
Cycle Life	$\triangle$ 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:**

 $P_d = (0.12 \text{ x E}^2/R_d)/M$ where  $E = \text{charge voltage } (U_R)$ , R<sub>d</sub> = internal resistance (DC) M = capacitor weight (kg)

 $P_V = (0.12 \text{ x E}^2/R_d)/V$ 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

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