Supercapacitors deliver power for battery support, hold-up & pulse current applications

PM family

Introducing the Eaton PM family of high capacitance, ultra-low resistance 5 V supercapacitor packs.

High capacitance

High capacitance (0.47 F to 3.0 F) enables a long hold-up time for last-time transmit and high power RF transmission.

Ultra-low Equivalent Series Resistance (ESR)

ESR levels as low as 50 mΩ ensure minimal voltage drop during peak current demand increasing the amount of power that can be delivered to the load.

Wide temperature range

The PM family operates from as low as -40 °C up to +85 °C making it ideally suited to withstand the harsh environments found in industrial RF communication and pulse current applications.

Low leakage current

Optimized for minimum leakage current the PM family presents only a minimal additional load and, as such, is ideal for battery powered pulse current applications.
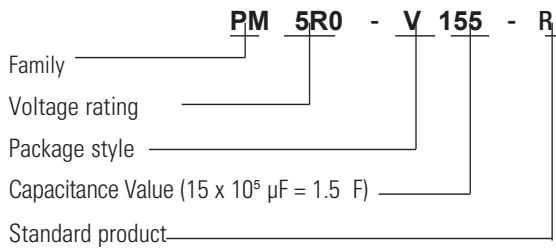
Applications

- Automated meter reading
- Asset tracking
- DSL modem
- Valve and solenoid actuation
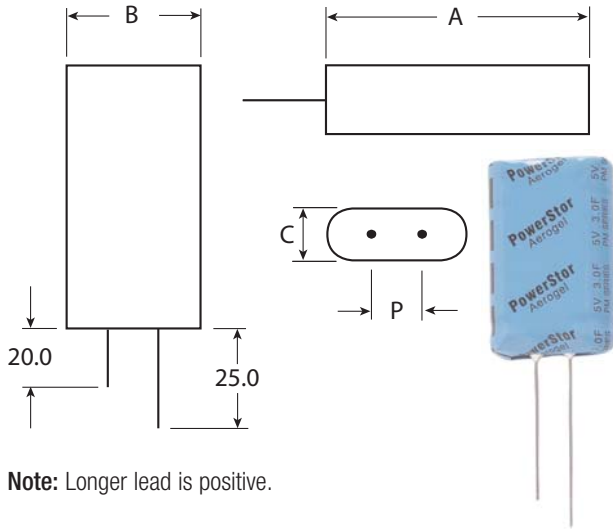
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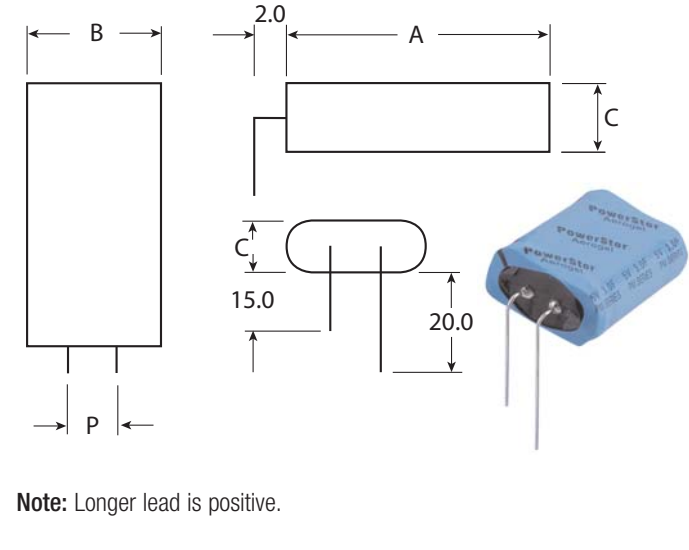
Specifications

Catalog Symbol

PM 5R0 - V 155 - R

Family

Voltage rating

Package style

Capacitance Value (15 x 10⁵ µF = 1.5 F)

Standard product

Dimensions

Vertical

20.0

25.0

Note: Longer lead is positive.

Horizontal

2.0

15.0

20.0

Note: Longer lead is positive.

Specifications	
Working Voltage	5.0 V
Surge Voltage	5.5 V
Nominal Capacitance Range	0.47 F to 3.0 F
Equivalent Series Resistance @ 1kHz	300 to 50 mΩ
Capacitance Tolerance	-20% to +80% (+20 °C)
Operating Temperature Range	-40 °C to +60 °C
Extended Operating Temperature Range	-40 °C to +85 °C (Max working voltage 3.9 V)

Technical Application Assistance

E-mail capacitortech@eaton.com

Data Sheets: www.eaton.com/electronics

Order samples on-line: https://tools.eatonelectronics.com/request-form

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For more information visit:
www.eaton.com/supercapacitors