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

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
Specifications

Catalog Symbol

Family
Voltage rating
Package style
Capacitance Value (15 x 10^6 µF = 1.5 F)
Standard product

Dimensions

Vertical

Horizontal

Note: Longer lead is positive.

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Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Voltage</td>
<td>5.0 V</td>
</tr>
<tr>
<td>Surge Voltage</td>
<td>5.5 V</td>
</tr>
<tr>
<td>Nominal Capacitance Range</td>
<td>0.47 F to 3.0 F</td>
</tr>
<tr>
<td>Equivalent Series Resistance @ 1kHz</td>
<td>300 to 50 mΩ</td>
</tr>
<tr>
<td>Capacitance Tolerance</td>
<td>-20% to +80% (+20 °C)</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 °C to +60 °C</td>
</tr>
<tr>
<td>Extended Operating Temperature Range</td>
<td>-40 °C to +85 °C</td>
</tr>
<tr>
<td></td>
<td>(Max working voltage 3.9 V)</td>
</tr>
</tbody>
</table>

Technical Application Assistance

E-mail capacitortech@eaton.com
Data Sheets: www.eaton.com/electronics
Order samples on-line: https://tools.eatonelectronics.com/request-form

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