Pulse tolerant surface mount resistors!
Series PRM withstand high energy pulses, and are superior to conventional film & wirewound types. The heavy duty construction features a ceramic core, enabling improved thermal transfer and long term stability. Elements are protected by flame-retardant molding for excellent environmental performance. Alpha-numeric marking is standard. PRM resistors are cost effective in a wide variety of pulse applications including telecom line feed resistors, snubber circuits, in-rush currents, capacitor charge/discharge circuits, lightning surges, etc.

Options
- Option ER: Group A Screening per MIL-R-39008 RCR
- Option B: Increased power
- Option X: Non-inductive

Specifications

<table>
<thead>
<tr>
<th>RCD Type</th>
<th>Wattage Rating Std</th>
<th>OPT B</th>
<th>Max. Voltage 3,4</th>
<th>Max. Peak Pulse Voltage 3,4</th>
<th>Resistance Range</th>
<th>DIMENSIONS Inch [mm]</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRM1/8</td>
<td>.125W</td>
<td>.5W</td>
<td>150V</td>
<td>2KV</td>
<td>0.1Ω - 2K</td>
<td>A: 0.20 ± 0.2 [5.1 ± 0.5]</td>
<td>285 ± 0.01, 100 ± 0.1, 0.25 Min.</td>
</tr>
<tr>
<td>PRM1/4</td>
<td>.25W</td>
<td>1W</td>
<td>250V</td>
<td>3.5KV</td>
<td>0.12 ± 10K</td>
<td>B: 0.25 ± 0.01 [2.79 ± 0.38]</td>
<td>150 ± 0.01, 0.52 ± 0.01</td>
</tr>
<tr>
<td>PRM1/2</td>
<td>.5W</td>
<td>2W</td>
<td>350V</td>
<td>5KV</td>
<td>0.12 ± 24K</td>
<td>C: 0.47 ± 0.01 [12 ± 6]</td>
<td>208 ± 0.02</td>
</tr>
<tr>
<td>PRM1</td>
<td>1W</td>
<td>4W</td>
<td>500V</td>
<td>10KV</td>
<td>0.1Ω - 100K</td>
<td>D: 0.81 ± 0.05 [20 ± 6 ± 5]</td>
<td>275 ± 0.20</td>
</tr>
</tbody>
</table>

Surge capability

TYPICAL PERFORMANCE CHARACTERISTICS

- Wattage Derating: 1.25%/°C >70°C (Opt. B to be derated 0.8%/°C >25°C)
- Max. Induc*: Opt. X=±50Ω
- Max. Induc*: Opt. X>±50Ω
- 0.2uH PRM1/8-1/2, .3uH PRM1
- 0.37uH PRM1/8-1/2, .6uH PRM1
- Short-time Overload: ±0.5%
- Temperature Cycling: ±0.5%
- TCR (20ppm avail.): ±120ppm/°C (<0.2Ω=200ppm)
- Moisture Resistance: ±1%
- Shock and Vibration: ±0.2%
- Effect of Soldering: ±0.2%
- Voltage Coefficient: ±0.005%/V
- Load Life: ±0.5% Std. ±1% Opt.B
- Dielectric Strength: 500V (1KV avail.)

APPLICATION NOTE


P/N DESIGNATION:

PRM Type Options: X, ER, B (leave blank if std)
- Resis. Code 1% tol: 3 signif. figures & multiplier, e.g. R100=1.00, 1000=101, 10R0=103, 1000=1003, 1001=1K
- 2% toler. ±2 signif. fig. & multiplier (R10=0.1, 100=1.0, 1000=10.0, 1001=10K)
- Tolerance: ±5% (standard), F=±1%, G=±2%, K=±10%
- Packaging: B = bulk, T = Tape & Reel
- Optional TC: ±20ppm, ±50ppm (leave blank if standard)
- Terminations: W= Lead-free, Q=Tin/Lead (leave blank if either is acceptable, in which case RCD will select based on lowest price and quickest delivery)