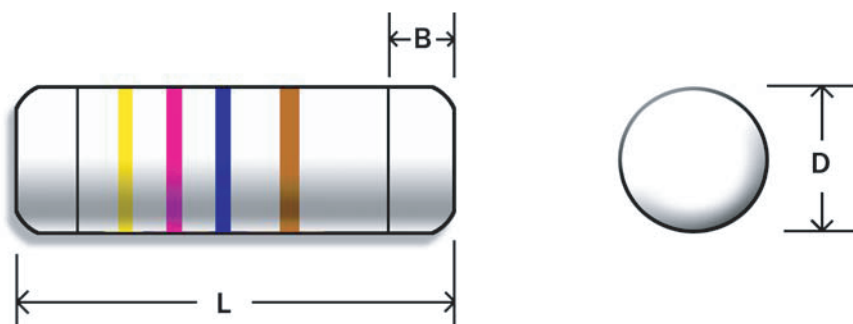


PMR12, 01, 02, 03, 04, 05

Features

- High Power Handling
- Superior Reliability and Stability
- SMD Enabled Structure
- Pb-free Version Available, Pure Tin Plated Termination for Excellent Solderability



Dimensions

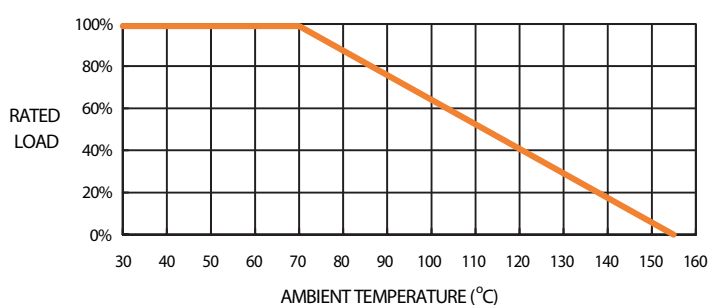
Type	Body Length (L, mm)	Body Diameter (D, mm)	Soldering Spot (B, mm)	Net Weight Per 1000 pcs
PMR12	3.45 ± 0.1	1.35 ± 0.1	0.6 Min.	17 grams
PMR01	5.90 ± 0.2	2.20 ± 0.1	1.0 min.	66 grams
PMR02	8.50 ± 1.0	3.00 ± 0.2	1.3 min.	186 grams
PMR03	10.5 ± 1.0	4.00 ± 0.5	1.6 min.	446 grams
PMR04	12.6 ± 1.5	4.60 ± 0.7	1.8 min.	750 grams
PMR05	14.6 ± 2.0	5.10 ± 1.0	2.0 min.	1000 grams

General Specifications

Type	Power Rating (at 70°C)	Max. Working Voltage	Max. Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance	Standard Resistance Value
PMR12	1/2W	250V	500V	0Ω	1MΩ	±0.5%~5%	E-24 / 96
PMR01	1W	300V	600V	0Ω	1MΩ	±0.5%~5%	E-24 / 96
PMR02	2W	350V	700V	0Ω	4.7MΩ	±0.5%~5%	E-24 / 96
PMR03	3W	400V	800V	0Ω	6.8MΩ	±0.5%~5%	E-24 / 96
PMR04	4W	400V	800V	0Ω	8.2MΩ	±0.5%~5%	E-24 / 96
PMR05	5W	450V	900V	0Ω	10MΩ	±0.5%~5%	E-24 / 96

Note: Low ohm values available!

POWER DERATING CURVE



PMR12, 01, 02, 03, 04, 05

Technical Summary:

Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	PMR12: 300 PMR01: 500 PMR02: 700 PMR03, PMR04, PMR05: 1000
Temperature Coefficient, PPM / °C	$\leq 1\text{M}\Omega$: ± 200 $1.1\text{M}\Omega \sim 6.8\text{M}\Omega$: ± 350 $> 6.8\text{M}\Omega$: ± 500
Operating Temperature Range, °C	-55 ~ +155
Insulation Resistance, M Ω	$> 10^4$
Voltage Coefficient, PPM / V	< 25
Failure Rate in Time, pcs / 10^9 device hours	< 1

Performance Specifications

Tests Characteristics	Test Conditions	Limits
Short Time Overload	IEC 60115-1 4.13 2 seconds 2.5x rated voltage (not over max. overload voltage)	$\pm 0.5\%$, 1%: $\pm(0.5\%+0.05R)$ $\pm 2\%$: $\pm(0.8\%+0.05R)$ $\pm 5\%$: $\pm(2\%+0.05R)$
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	$\pm(5\%+0.05R)$
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	$\pm(5\%+0.05R)$
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	$\pm(1\%+0.05R)$
Solderability	MIL-STD-202 Method 208 Solder area covered after 230 $\pm$ 5°C/5 $\pm$ 0.5 seconds w/ flux applied	95% Min.
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 Hz.	$\pm(1\%+0.05R)$
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	$\pm(1\%+0.05R)$
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	$\pm(2\%+0.05R)$

