

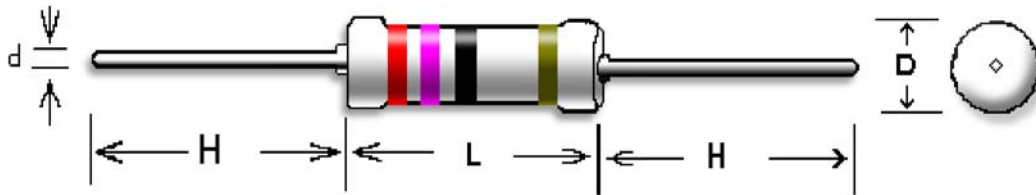
M204 - Miniature Power Metal Film Resistor

Specifications Per

- IEC 115-1
- MIL R-10509F
- DIN 44601

Features

- Conformal Multi-Coating
- Color Code Per MIL & EIA Standards
- Special Tin Plate Electrolytic Copper Lead Wire
- High Reliability



Dimensions

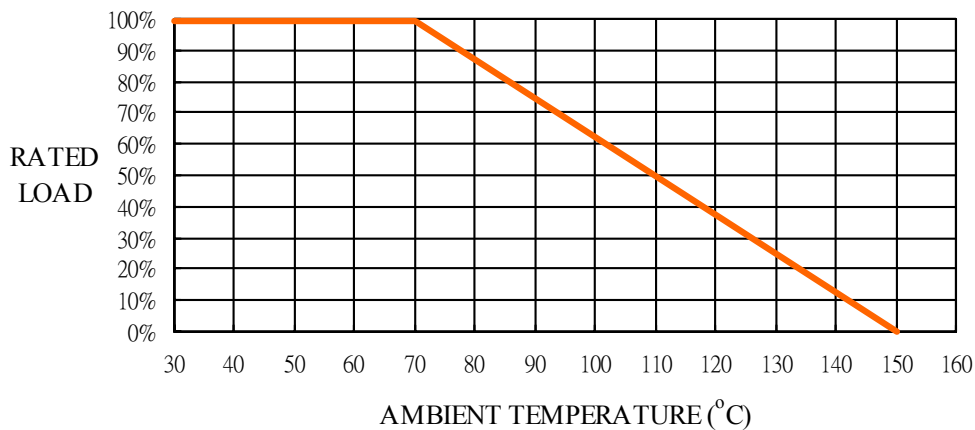
Body (mm) Length (L)	Body (mm) Diameter (D)	Lead Wire (mm) Length (H)	Lead Wire (mm) Diameter (d)	Net Weight Per 1000Pcs
3.2 ±1.0	1.9 ±0.2	28 ±3.0	0.45 ±0.02	145 Grams

General Specifications

Power Rating At 70°C	Max. Working Voltage	Max. Overload Voltage	Min. Resistance	Max. Resistance	Resistance Tolerance	Standard Resistance Values
0.4W	250V	400V	1Ω	10MΩ	±1%, 5%	E-24/E-96

Special sizes, values, and specifications not listed available on special order.

POWER DERATING CURVE



Nov. 20, 2001

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Technical Specifications

Characteristics	Limits
Dielectric Withstanding Voltage, V AC or DC	400
Temperature Coefficient, PPM / °C	±50, ±100
Operating Temperature Range, °C	-55~+150
Insulation Resistance, MΩ	10 ⁵ Min.
Voltage Coefficient, PPM	25

Performance Specifications

Test Characteristics	Test Conditions	Limits
Short Time Over Load	IEC 60115-1 4.13 2 seconds 2.5x rated voltage (not over max. overload voltage)	±(1%+0.05R)
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±2.5%
Load Life (At 70°C)	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	±2.5%
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1%+0.05R)
Solderability	MIL-STD-202 Method 208 Solder area covered after 230±5°C/5±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.	±(0.5%+0.05R)
Terminal Endurance	IEC 60115-1 4.25.3 1000 hours at 150°C without load	±(0.5%+0.05R)
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +150°C 30minutes, 5 cycles	±(1%+0.05R)

Ordering Information

Type	Tolerance	Temperature Coefficient	Resistance Value	Packaging	Special Request (Optional)
M204	F (1%) J (5%)	TK100	10K	TB (Tape/Box)	LV (Low value)