

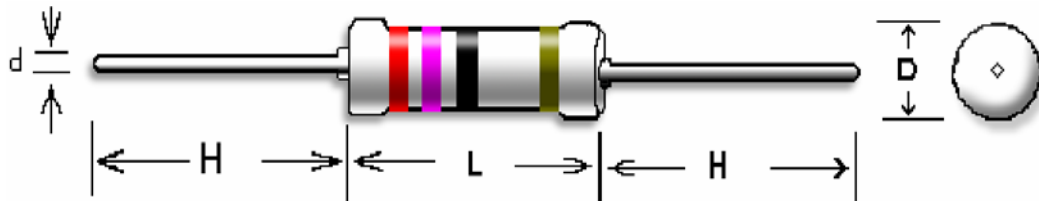
MVR - Medium Voltage Resistor

Specifications per

- IEC-115-1
- MIL R-10509F
- DIN 44051

Features

- Higher working voltage than metal film resistors
- Improved reliability
- Specially suitable for switching power supply



Dimensions:

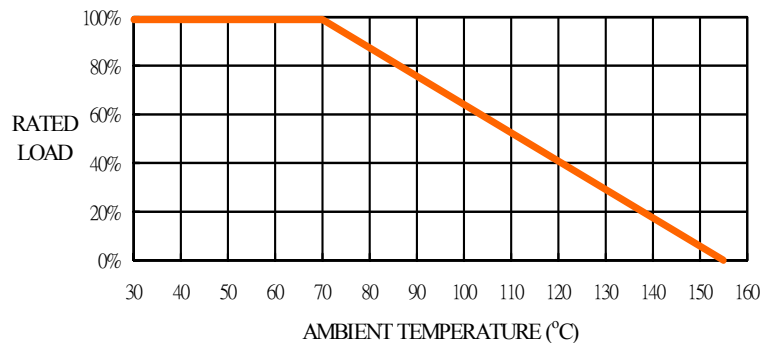
Type No.	Body Length (L, mm)	Body Diameter (D, mm)	Lead Wire Length (H, mm)	Lead Wire Diameter (d, mm)	Net Weight Per 1000Pcs
MVR25	6.5 ± 1.0	2.4 ± 0.2	26 ± 3.0	0.55 ± 0.03	220 Grams
MVR51	8.8 ± 1.0	3.2 ± 0.2	26 ± 3.0	0.60 ± 0.03	340 Grams
MVR100	12.0 ± 1.0	4.5 ± 0.5	26 ± 3.0	0.70 ± 0.03	600 Grams
MVR200	15.5 ± 1.0	6.0 ± 0.5	26 ± 3.0	0.80 ± 0.03	1200 Grams

General Specifications:

Type No.	Power Rating At 70°C	Max. Working Voltage	Max. Overload Voltage	Min. Resistance	Max. Resistance	Resistance Tolerance	Standard Resistance Values
MVR25	1/4W	500V	1000V	1Ω	4.7MΩ	±1%	E-24/E-96
MVR51	1/2W	600V	1200V	1Ω	1MΩ	±1%	E-24/E-96
MVR100	1W	800V	1600V	1Ω	1MΩ	±1%	E-24/E-96
MVR200	2W	1000V	2000V	1Ω	1MΩ	±1%	E-24/E-96

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

POWER DERATING CURVE



Sep. 20, 2004

MVR - Medium Voltage Resistor

Technical Summary:

Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	MVR25: 500 MVR51: 700 MVR100/MVR200: 1000
Temperature Coefficient, PPM / °C	±50, ±100
Operating Temperature Range, °C	-55 ~ +155
Insulation Resistance, MΩ	>10 ⁴
Voltage Coefficient, PPM / V	<25

Performance Specifications:

Test Characteristics	Test Conditions	Limits
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(0.2%+0.05R)
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±(0.75%+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	±(0.75%+0.05R)
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(0.2%+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.	±(0.25%+0.05R)
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±(0.2%+0.05R)
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±(0.25%+0.05R)

Ordering Information

Type	Tolerance	Temperature Coefficient	Resistance Value	Packaging	Special Request (Optional)
MVR25 MVR51	F (1%) J (5%)	TK100	1R2 10K 4M64	TB (Tape/Box) TR (Tape/Reel)	HV (High value) LV (Low value)

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