

MR/TMR Series—Low Resistance Value - Molded 2 and 4 Leads

Features

- Metal element resistors
- Excellent load life stability
- Inherently non-inductive
- Tinned copper leads - 10 lbs. pull
- Low temperature coefficient
- RoHS compliant / lead-free
- High power to size ratio
- Molded bodies
- Two or four terminal
- TMR - Kelvin Bridge Test
- Cut and formed product is available on select sizes; contact factory for details



Electrical Specifications

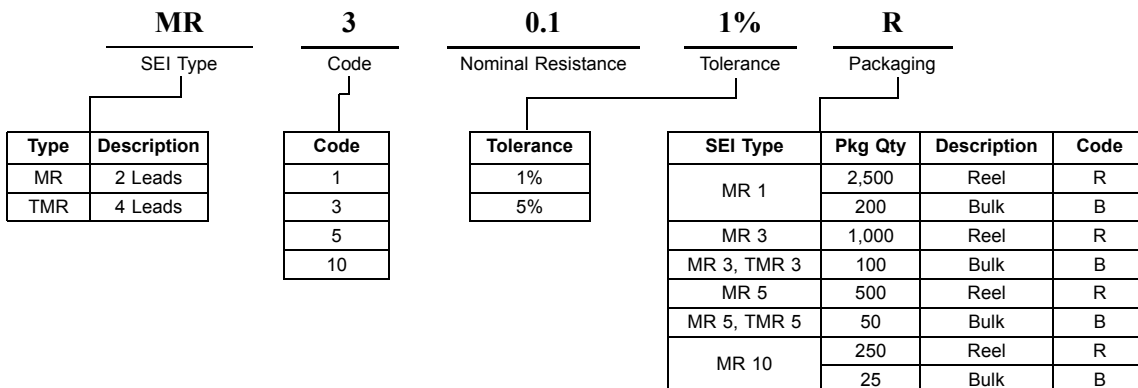
Type / Code	Power Rating (Watts) @ 70°C	Short Time Overload	Dielectric Strength	Resistance Temperature Coefficient	Ohmic Range and Tolerance
					1%, 5%
MR 1	1W	5 sec. at 5x Rated Power	500 VAC	±50 - ±400 ppm/°C*	0.01Ω - 0.1Ω
MR 3	3W	5 sec. at 5x Rated Power	500 VAC	±50 - ±400 ppm/°C*	0.005Ω - 0.2Ω
MR 5	5W	5 sec. at 5x Rated Power	500 VAC	±50 - ±400 ppm/°C*	0.005Ω - 0.3Ω
MR 10	10W	5 sec. at 5x Rated Power	500 VAC	±50 - ±400 ppm/°C*	0.01Ω - 0.5Ω
TMR 3	3W	5 sec. at 5x Rated Power	500 VAC	±40 ppm/°C	0.005Ω - 0.2Ω
TMR 5	5W	5 sec. at 5x Rated Power	500 VAC	±40 ppm/°C	0.005Ω - 0.3Ω

*TCR is value dependent. Please contact factory for specific data

Performance Characteristics

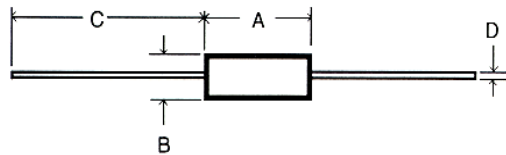
Test	Test Results
Moisture Resistance	±5%
Thermal Shock	±2%
Load Life @ 70°C - 1,000 hrs.	±5%
Resistance to Soldering Heat	±2%
Short Time Overload	±2%
Dielectric Withstanding Voltage	±2%
Operating Temperature Range	-55°C to +275°C

How to Order

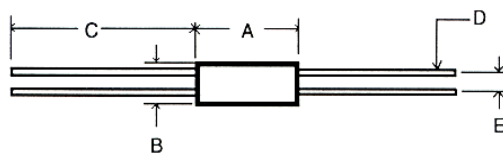


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MR



TMR



Mechanical Specifications

Type / Code	A Body Length	B Body Diameter	C Lead Length	D Lead Diameter	E Lead Spacing	Units
Tolerance	±0.015	±0.015	±0.125	±0.002	inches	inches
	±0.4	±0.4	±3.4	±0.05	mm	mm
MR 1	0.385 9.8	0.135 3.4	1.375 34.9	0.032 0.81	—	inches mm
MR 3	0.560 14.2	0.205 5.2	1.375 34.9	0.032 0.81	—	inches mm
MR 5	0.925 23.5	0.330 8.4	1.375 34.9	0.036 0.91	—	inches mm
MR 10	1.925 46.4	0.475 10.0	1.375 34.9	0.036 0.91	—	inches mm
TMR 3	0.625 15.9	0.205 5.2	1.375 34.9	0.032 0.81	0.125 3.2	inches mm
TMR 5	0.940 23.9	0.330 8.4	1.375 34.9	0.036 0.91	0.200 5.1	inches mm

Power Derating

