

# MR/TMR Series

Low Resistance Value – Molded 2 and 4 Leads

Stackpole Electronics, Inc.

Resistive Product Solutions

- 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 terminals
  - ✓ TMR – Kelvin Bridge Test
  - ✓ Cut and formed product is available on selected 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 to ±400 ppm/°C①	0.01Ω - 0.1Ω
MR 3	3W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/°C①	0.005Ω - 0.2Ω
MR 5	5W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/°C①	0.005Ω - 0.3Ω
MR 10	10W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/°C①	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

①TCR is value dependent. Contact factory for specific data.

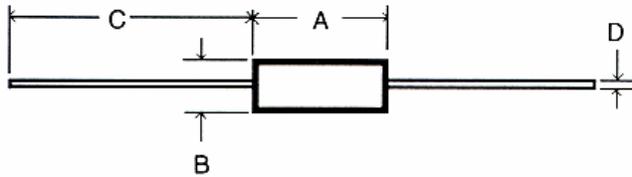
Performance Characteristics	
Test	Test Results
Moisture Resistance	±5%
Thermal Shock	±2%
Load Life @ 70°C - 1,000 hrs.	±5%
Resistance to Soldering Heat	±2%
Short Time Overload	±2%
Dielectric Withstanding Voltage	±2%

Operating Temperature Range: -55°C to +275°C

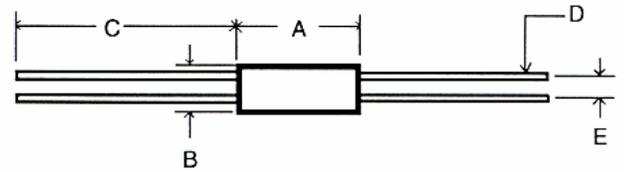
## How to Order

SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
MR		3	0.1	1%	R			
Type	Description	Code		Tolerance	Type	Pkg Qty	Description	Code
MR	2Leads	1		1%	MR 1	2,000	Reel	R
TMR	4 Leads	3		5%	MR 3	750		
		5			MR 5	500		
		10			MR 10	250		
					MR 1, MR 3, MR 5	1,000	Bulk	B
					MR 10	500		
					TMR 3, TMR 5	100		

## MR



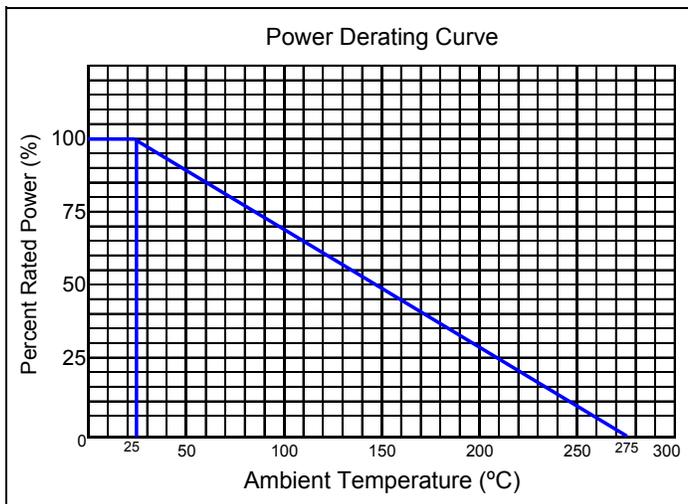
## TMR



### Mechanical Specifications

Type / Code	A Body Length	B Body Diameter	C Lead Length	D Lead Diameter	E Lead Spacing	Units
Tolerance	±0.015 ±0.4	±0.015 ±0.4	±0.125 ±3.4	±0.002 ±0.05	-	inches mm
MR 1	0.385 9.8	0.135 3.4	1.375 34.9	0.032 0.81	-	inches mm
MR 3	0.56 14.2	0.205 5.2	1.375 34.9	0.032 0.81	-	inches mm
MR 5	0.925 23.5	0.33 8.4	1.375 34.9	0.036 0.91	-	inches mm
MR 10	1.925 46.4	0.475 10	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	0.94 23.9	0.33 8.4	1.375 34.9	0.036 0.91	0.2 5.1	inches mm

Power Derating Curve



TCR vs Resistance

