MR/MRS/TMR Series

Low Resistance Value Resistor - Molded 2 and 4 Leads

Resistive Product Solutions

Features:

- Metal element resistors
 - Excellent load life stability
- Inherently non-inductive
- Tinned copper leads
- Low temperature coefficient
- RoHS compliant
- Molded bodies
- TMR Kelvin Bridge Test
- MRS high stability version
- Cut and formed product is available on selected sizes
- Contact factory for details

Electrical Specifications							
Type / Code	Power Rating (Watts)	Short Time Overload	Dielectric Strength	Resistance Temperature	Ohmic Range (Ω) and Tolerance		
	@ 70°C			Coemcient	1%, 5%		
MR1	1W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/°C (1)	0.01 - 0.1		
MR3	3W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/ºC (1)	0.005 - 0.2		
MR5	5W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/°C (1)	0.005 - 0.3		
MR10	10W	5 sec. at 5x rated power	500 VAC	±50 to ±400 ppm/ºC (1)	0.01 - 0.5		
TMR3	3W	5 sec. at 5x rated power	500 VAC	±40 ppm/°C	0.005 - 0.2		
TMR5	5W	5 sec. at 5x rated power	500 VAC	±40 ppm/°C	0.005 - 0.3		

(1) TCR 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

Power Derating Curve:



This specification may be changed at any time without prior notice Please confirm technical specifications before you order and/or use. 1



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Mechanical Specifications								
Type / Code	A Body Length	B Body Diameter	C Lead Length	D Lead Diameter	E Lead Spacing (Ref.)	Unit		
Tolerance	±0.015 ±0.4	±0.015 ±0.4	±0.125 ±3.4	±0.002 ±0.05	-	inches mm		
MR1	0.385 9.8	0.135 3.4	1.375 34.9	0.032 0.81	-	inches mm		
MR3	0.56 14.2	0.205 5.2	1.375 34.9	0.032 0.81	-	inches mm		
MR5	0.925 23.5	0.33 8.4	1.375 34.9	0.036 0.91	-	inches mm		
MR10	1.925 46.4	0.475 10	1.375 34.9	0.036 0.91	-	inches mm		
TMR3	0.625 15.9	0.205 5.2	1.375 34.9	0.032 0.81	0.125 3.2	inches mm		
TMR5	0.94 23.9	0.33 8.4	1.375 34.9	0.036 0.91	0.2 5.1	inches mm		

TCR x Resistance:



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Legacy Part Number (before January 3, 2011):

SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
MR		3	0.1	1%	R			
Туре	Description	Code		Tolerance	Туре	Pkg Qty	Description	Code
MR	2 Leads	1		1%	MR1	2,000		
TMR	4 Leads	3		5%	MR3	750	Tape and Reel	D
MRS	High Stability	5			MR5	500	Tape and Reel	IX I
		10			MR10	250		
					MR1, MR3, MR5	1,000		
					MR10	500	Bulk	В
					TMR3, TMR5	100		

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