

### Features:

- Metal element resistors
- Excellent load life stability
- 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
- Values of 0.150 ohms and below are non-magnetic and non-inductive



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

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

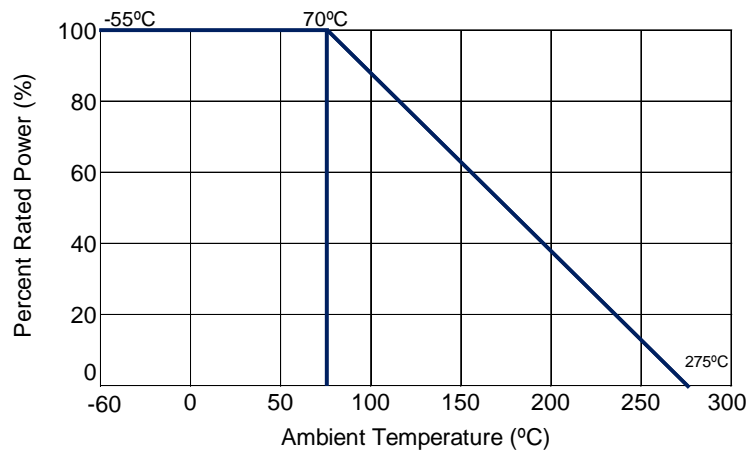
Mechanical Specifications							
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)(1)	D Lead Diameter	E Lead Spacing (Ref.)	Unit	
MR1	0.385 ± 0.015 9.78 ± 0.38	0.135 ± 0.015 3.43 ± 0.38	1.375 ± 0.125 34.93 ± 3.18	0.032 ± 0.002 0.81 ± 0.05	-	inches	
MR3	0.560 ± 0.015 14.22 ± 0.38	0.205 ± 0.015 5.21 ± 0.38				mm	
MR5	0.925 ± 0.015 23.50 ± 0.38	0.330 ± 0.015 8.38 ± 0.38		0.036 ± 0.002 0.91 ± 0.05		inches	
MR10	1.925 ± 0.015 48.90 ± 0.38	0.475 ± 0.015 12.07 ± 0.38				mm	
TMR3	0.625 ± 0.015 15.88 ± 0.38	0.205 ± 0.015 5.21 ± 0.38		0.032 ± 0.002 0.81 ± 0.05		0.125 3.18	inches mm
TMR5	0.940 ± 0.015 23.88 ± 0.38	0.330 ± 0.015 8.38 ± 0.38		0.036 ± 0.002 0.91 ± 0.05		0.200 5.08	inches mm

(1) See "Resistor Packaging Specification Document" for lead length dimension for tape and reel packaged product

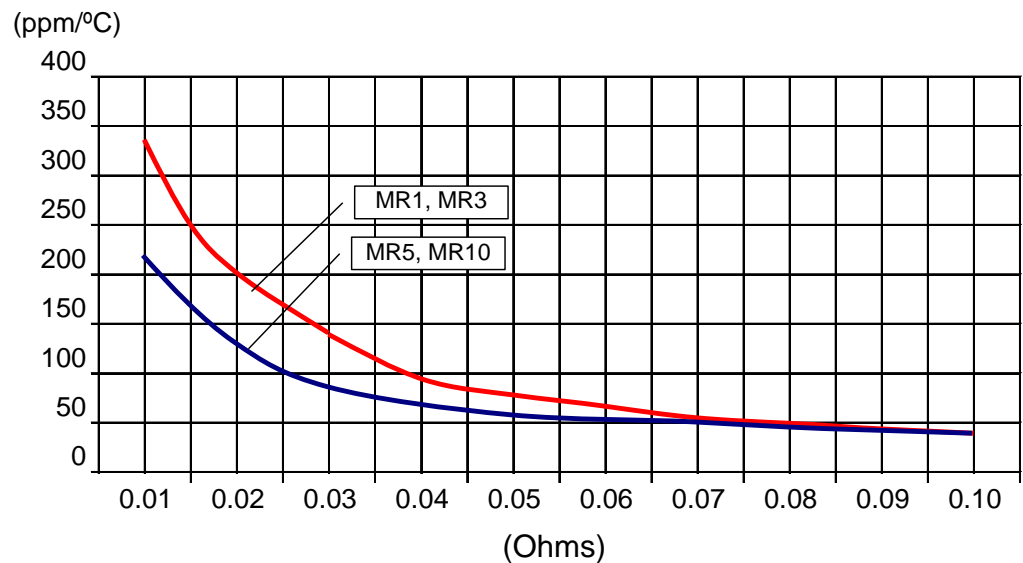
Performance Characteristics	
Test	Test Results
Moisture Resistance	±5%
Thermal Shock	±2%
Load Life @ 70°C - 1,000 hrs.	±5%
Resistance to Soldering Heat	±2%
Short Time Overload	±2%
Dielectric Withstanding Voltage	±2%

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

### Power Derating Curve:



### TCR x Resistance:



## How to Order

