MR/MRS/TMR Series

Low Resistance Value Resistor - Molded 2 and 4 Leads

Resistive Product Solutions

Features:

- Metal element resistorsTinned copper leads
 - Low temperature coefficient
- Molded bodies
- TMR Kelvin Bridge Test
- MRS high stability version
- Cut and formed product is available on selected sizes contact factory for details
- RoHS compliant

Electrical Specifications									
Type / Code	Power Rating (Watts) @ 70°C	Short Time Overload	Dielectric Strength	Resistance Temperature	Ohmic Range (Ω) and Tolerance				
				Coefficient	1%, 5%				
MR1 ⁽²⁾	1W	5 seconds at 5x rated power	500 VAC	±50 to ±400 ppm/ºC ⁽¹⁾	0.01 - 0.1				
MR3 ⁽³⁾	3W				0.005 - 0.2				
MR5 ⁽⁴⁾	5W				0.005 - 0.3				
MR10	10W				0.01 - 0.5				
TMR3	3W			±40 ppm/ºC	0.005 - 0.2				
TMR5	5W				0.005 - 0.3				

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

(2) MR1 values 0.05Ω and below are non-magnetic and non-inductive

(3) MR3 values 0.1Ω and below are non-magnetic and non-inductive

(4) MR5 values 0.15Ω and below are non-magnetic and non-inductive



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



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Stackpole Electronics, Inc. Resistive Product Solutions

Performance Characteristics						
Test	Test Results					
Moisture Resistance	±5%					
Thermal Shock	±2%					
Load Life @ 70ºC - 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



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6.35

mm

 10.00 ± 0.50

 52.40 ± 2.00



168.00 Dimension "E": This is a non-critical dimension that does not have a tolerance in the standard.

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Range of diameters is from 0.547 inches (13.90 mm) to 1.500 inches (38.10 mm).

(1) Reference value only. The "A" dimension shall be governed by the overall length of the taped component.

The distance between flanges shall be 0.059 inches (1.50 mm) to 0.315 (8.00 mm) greater than the overall component.

The given dimension "D" expresses the standard width spacing. A 26mm narrow spacing is available as option "N" packaging code. (2)

343.00

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 2). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament.

RoHS Compliance Status										
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)				
MR	Low Resistance Value Leaded Resistor - Molded 2 Leads	Axial Kelvin	YES	100% Matte Sn	Jan-06	06/01				
TMR	Low Resistance Value Leaded Resistor - Molded 4 Leads	Axial Kelvin	YES	100% Matte Sn	Jan-06	06/01				

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the Eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

