imall

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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MR/MRS/TMR Series

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Low Resistance Value Resistor – Molded 2 and 4 Leads

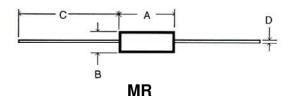
Rev Date: 07/27/2012 This specification may be changed at any time without prior notice Please confirm technical specifications before you order and/or use.

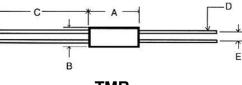


- Metal element resistors Excellent load life stability
- Inherently non-inductive
- Tinned copper leads
- Low temperature coefficient
- RoHS compliant
- Molded bodies
- TMR Kelvin Bridge Test
- MRS high stability version
- Cut and formed product is available on selected sizes contact factory for details

| Electrical Specifications | | | | | | | |
|---------------------------|-------------------------|--------------------------|------------------------|---------------------------------------|----------------------------------|--|--|
| Type / Code | Power Rating (Watts) | Short Time Overload | Dielectric Strength | Resistance Temperature Coefficient | Ohmic Range (Ω) and Tolerance | | |
| | @ 70°C | | | | 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/ºC (1) | 0.005 - 0.3 | | |
| MR10 | 10W | 5 sec. at 5x rated power | 500 VAC | ±50 to ±400 ppm/°C (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.







| | | | · | | | - |
|-------------|------------------|--------------------|----------------------------|--------------------|-----------------------------|------|
| Type / Code | A Body Length | B Body Diameter | C Lead Length (Bulk)(1) | D Lead Diameter | E Lead Spacing (Ref.) | Uni |
| MR1 | 0.385 ± 0.015 | 0.135 ± 0.015 | 1.375 ± 0.125 | 0.032 ± 0.002 | _ | inch |
| NII (1 | 9.78 ± 0.38 | 3.43 ± 0.38 | 34.93 ± 3.18 | 0.81 ± 0.05 | | mn |
| MR3 | 0.560 ± 0.015 | 0.205 ± 0.015 | 1.375 ± 0.125 | 0.032 ± 0.002 | _ | inch |
| Nii to | 14.22 ± 0.38 | 5.21 ± 0.38 | 34.93 ± 3.18 | 0.81 ± 0.05 | | mn |
| MR5 | 0.925 ± 0.015 | 0.330 ± 0.015 | 1.375 ± 0.125 | 0.036 ± 0.002 | _ | inch |
| Nii to | 23.50 ± 0.38 | 8.38 ± 0.38 | 34.93 ± 3.18 | 0.91 ± 0.05 | | mn |
| MR10 | 1.925 ± 0.015 | 0.475 ± 0.015 | 1.375 ± 0.125 | 0.036 ± 0.002 | _ | inch |
| MICIO | 48.90 ± 0.38 | 12.07 ± 0.38 | 34.93 ± 3.18 | 0.91 ± 0.05 | | mn |
| TMR3 | 0.625 ± 0.015 | 0.205 ± 0.015 | 1.375 ± 0.125 | 0.032 ± 0.002 | 0.125 | inch |
| TWI (O | 15.88 ± 0.38 | 5.21 ± 0.38 | 34.93 ± 3.18 | 0.81 ± 0.05 | 3.18 | mr |
| TMR5 | 0.940 ± 0.015 | 0.330 ± 0.015 | 1.375 ± 0.125 | 0.036 ± 0.002 | 0.200 | inch |
| TIVIT (J | 23.88 ± 0.38 | 8.38 ± 0.38 | 34.93 ± 3.18 | 0.91 ± 0.05 | 5.08 | mr |

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

Stackpole Electronics, Inc.

Resistive Product Solutions



MR/MRS/TMR Series

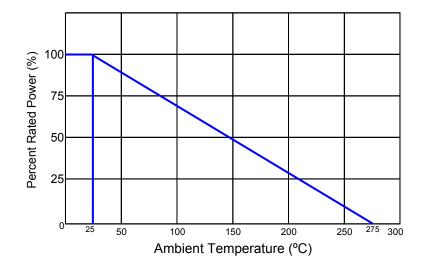
Low Resistance Value Resistor - Molded 2 and 4 Leads

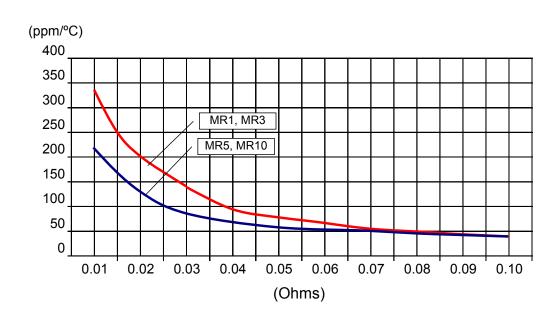
Stackpole Electronics, Inc. Resistive Product Solutions

| 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:





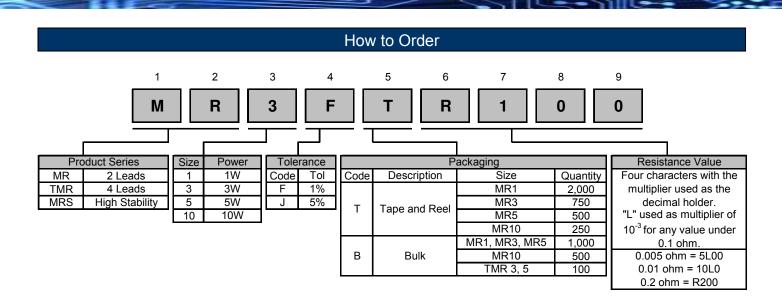


MR/MRS/TMR Series

Low Resistance Value Resistor - Molded 2 and 4 Leads

Stackpole Electronics, Inc.

Resistive Product Solutions



Legacy Part Number (before January 3, 2011):

| SEI Type | | Code | Nominal Resistance | Tolerance | | Packag | ging | |
|----------|----------------|------|-----------------------|-----------|---------------|---------|---------------|------|
| 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 | R |
| MRS | High Stability | 5 | | | MR5 | 500 | Tape and Reel | |
| | | 10 | | | MR10 | 250 | | |
| | | | | | MR1, MR3, MR5 | 1,000 | | |
| | | | | | MR10 | 500 | Bulk | В |
| | | | | | TMR3, TMR5 | 100 | | |