

# RMF Series

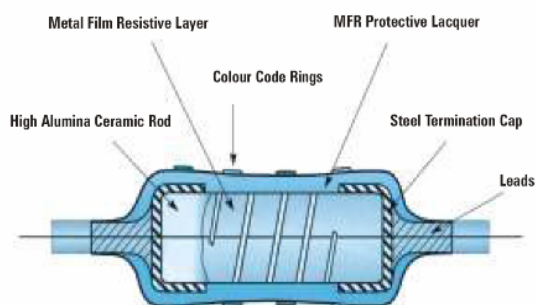
Film Resistors



## Features:

- Meet Performance Requirements of JSS Std. & MIL Std.
- Miniature Size available for space savings.
- Available ranges from 10 ohm to 1M ohm.
- Values below range available on request.
- Flameproof Coating Available on request.
- TCR available 25,50,100ppm/°C.

## Construction:



## SPECIFICATIONS

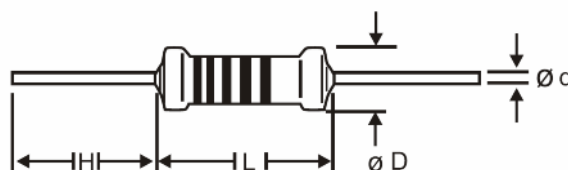
| TYPE    | POWER RATING | TOL (±)  | DIMENSION (mm) |          |         |            | Max. Working Voltage | Max. Overload Voltage |
|---------|--------------|----------|----------------|----------|---------|------------|----------------------|-----------------------|
|         |              |          | L              | D        | H (min) | d          |                      |                       |
| RMF125  | 0.125W       | 1%,2%,5% | 3.3 ±0.5       | 1.7 ±0.2 | 28      | 0.45 ±0.05 | 200V                 | 400V                  |
| RMFS40  | 0.4W         | 1%       | 3.3 ±0.5       | 1.7 ±0.2 | 28      | 0.45 ±0.05 | 200V                 | 400V                  |
| RMF25   | 0.25W        | 1%,2%,5% | 6.5 ±0.5       | 2.3 ±0.2 | 25      | 0.60 ±0.05 | 250V                 | 500V                  |
| RMFS60  | 0.6W         | 1%       | 6.5 ±0.5       | 2.3 ±0.2 | 25      | 0.60 ±0.05 | 250V                 | 500V                  |
| RMF50   | 0.5W         | 1%,2%,5% | 9.5 ±1         | 3.5 ±0.5 | 25      | 0.60 ±0.05 | 350V                 | 700V                  |
| RMFS100 | 1W           | 1%,5%    | 9.5 ±1         | 3.5 ±0.5 | 25      | 0.60 ±0.05 | 350V                 | 700V                  |
| RMF100  | 1W           | 1%,5%    | 12 ±1          | 4.5 ±0.5 | 25      | 0.80 ±0.05 | 500V                 | 1000V                 |
| RMFS200 | 2W           | 1%,5%    | 12 ±1          | 4.5 ±0.5 | 25      | 0.80 ±0.05 | 500V                 | 1000V                 |

## Ordering Information

Part Number - Resistance - Tolerance - TCR

Example: RMF50 1.1K 5% 25ppm

( Note: If no TCR is specified / the highest value will be supplied )



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## Performance Data

| TEST                            | PROCEDURE                                                                                      | SPEC.                                    |
|---------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------|
| Dielectric Withstanding Voltage | V - Block Method, 3X Rated Voltage<br>Duration: 1min.                                          | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Insulation Resistance           | V - Block Method, DC 500V<br>Duration: 1min.                                                   | $> 10,000 \text{ M ohm}$                 |
| Temp Cycling                    | 5 cycles of -65°C, 25°C, 155°C, 25°C                                                           | $\Delta R = (1\% + 0.05 \text{ ohm})$    |
| Short Time Overload             | 2.5 X Rated Voltage<br>Duration: 5 seconds                                                     | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Damp Heat Steady State          | 40°C 95% relative humidity,<br>Duration: 56 Days                                               | $\Delta R = (1\% + 0.05 \text{ ohm})$    |
| Load Life                       | Rated Voltage at 70°C ambient<br>Duration: 2000 hours                                          | $\Delta R = (1\% + 0.05 \text{ ohm})$    |
| Robustness of Terminations      | Tensile: 10N Duration: 10 sec.<br>Bending: 180°, > 3 bends<br>Torsion: 3 rotation of 360° each | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Resistance to Soldering Heat    | Temp. 260°C $\pm$ 5°C<br>Duration: 10 seconds                                                  | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Shock (Medium Impact)           | 1 Km/S <sup>2</sup>                                                                            | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Vibration (High Frequency)      | 10 to 2000Hz: m/S <sup>2</sup>                                                                 | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| Low Temp. Exposure              | at -65°C<br>Duration: 2 Hrs                                                                    | $\Delta R = (0.25\% + 0.05 \text{ ohm})$ |
| High Temp. Exposure             | at +155°C<br>Duration: 16 Hrs. No Load Condition                                               | $\Delta R = (1\% + 0.05 \text{ ohm})$    |
| Solderability                   | Dip Method, Solder bath<br>Temp. 230°C $\pm$ 5°C.<br>Duration: 5 sec.                          | 95% coverage                             |
| Resistance to Solvent           | Solvent: Trichloroethylene<br>Duration: 3 min.                                                 | Marking should be legible                |

