

- Features:
- Lower-cost alternative to carbon comps and wirewounds
 - Coating meets UL 94V-0
 - Meets solvent test of Mil Standard 202, Method 215
 - Cut and formed product is available on select sizes; contact factory for details
 - Higher or lower resistance values may be possible; contact factory
 - RoHS compliant / lead-free available (RSF, RSMF)



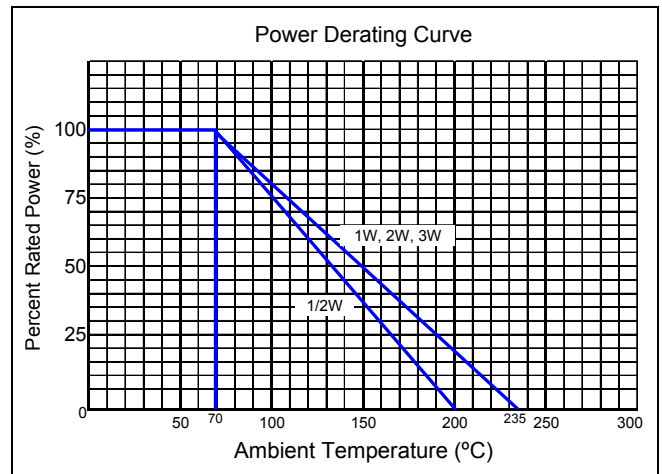
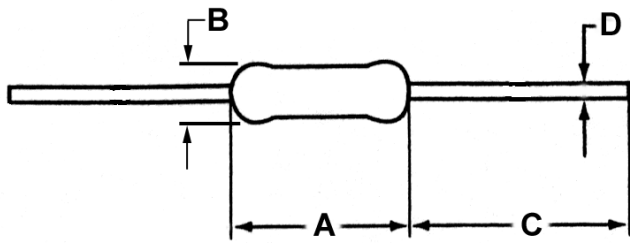
| Electrical Specifications | | | | | | | |
|---------------------------|-----------------------------|--------------------------------------|--------------------------|---------------------------------|------------------------------------|---------------------------|-------------|
| Type / Code | Power Rating (Watts) @ 70°C | Maximum Working Voltage [ⓐ] | Maximum Overload Voltage | Dielectric Withstanding Voltage | Resistance Temperature Coefficient | Ohmic Range and Tolerance | |
| | | | | | | 1% | 2%, 5% |
| RS 1/2 | 0.5W | 250V | 400V | 600V | ±200 ppm/°C | 0.1Ω - 75KΩ | 0.1Ω - 1MΩ |
| RS 1 | 1W | 350V | 600V | 600V | ±200 ppm/°C | 0.1Ω - 100KΩ | 0.1Ω - 1MΩ |
| RS 2 | 2W | 350V | 600V | 600V | ±200 ppm/°C | 0.1Ω - 120KΩ | 0.1Ω - 1MΩ |
| RS 3 | 3W | 400V | 700V | 600V | ±200 ppm/°C | 10Ω - 510KΩ | 10Ω - 510KΩ |
| RS 5 | 5W | 750V | 1,000V | 1,000V | ±200 ppm/°C | 10Ω - 510KΩ | 10Ω - 510KΩ |
| RSM 1/2 | 0.5W | 250V | 400V | 350V | ±200 ppm/°C | 0.1Ω - 47KΩ | 0.1Ω - 1MΩ |
| RSM 1 | 1W | 350V | 600V | 500V | ±200 ppm/°C | 0.1Ω - 75KΩ | 0.1Ω - 1MΩ |
| RSM 2 | 2W | 350V | 600V | 500V | ±200 ppm/°C | 0.1Ω - 100KΩ | 0.1Ω - 1MΩ |
| RSM 3 | 3W | 500V | 800V | 500V | ±200 ppm/°C | 0.1Ω - 118KΩ | 0.1Ω - 1MΩ |
| RSM 5 | 5W | 750V | 1,000V | 750V | ±200 ppm/°C | 1Ω - 510KΩ | 1Ω - 510KΩ |

[ⓐ]Lesser of \sqrt{PR} or maximum working voltage

How to Order

| SEI Type | | Code | | Nominal Resistance | Tolerance | Packaging | | | |
|-------------------|---------------|------|---------|--------------------|-----------|-------------------------------|-------|-------------|------|
| RS | | 1/2 | | 0.47 | 5% | R | | | |
| Type | Description | Code | Wattage | Tolerance | | Types | Qty | Description | Code |
| RS | EIA Standard | 1/2 | 0.5W | 1% | | RSM 1/2 | 5,000 | Tape | R |
| RSM | Mini | 1 | 1W | 2% | | RS 1/2, RSM 1, RS 1, RSM 2 | 2,500 | | |
| RSF | Standard RoHS | 2 | 2W | 5% | | RS 2, RSM 3 | 1,000 | | |
| RSMF | Mini RoHS | 3 | 3W | | | RS 3, RSM 5 | 500 | | |
| PRS [ⓐ] | Panasert | 5 | 5W | | | RSM 1/2 | 5,000 | | |
| PRSF [ⓐ] | Panasert RoHS | | | | | RS 1/2, RSM 1 | 2,000 | Ammo | T |
| | | | | | | RS 1, RS 2, RSM 2, RSM 3 | 1,000 | | |
| | | | | | | RS 3, RSM 5 | 500 | | |
| | | | | | | All | 1,000 | Bulk | A |

[ⓐ]For packaging information see Radial Leaded Packaging Spec page



| Mechanical Specifications | | | | | |
|---------------------------|--------------------------|--------------------------|-------------------------|------------------------------|--------------|
| Type / Code | A Body Length | B Body Diameter | C Lead Length (Bulk) | D Lead Diameter | Units |
| RS 1/2 | 0.35 ± 0.04 9 ± 1 | 0.14 ± 0.02 3.5 ± 0.5 | 1.1 ± 0.12 28 ± 3 | 0.024 ± 0.003 0.6 ± 0.01 | inches mm |
| RS 1 | 0.43 ± 0.04 11 ± 1 | 0.18 ± 0.02 4.5 ± 0.5 | 1.1 ± 0.20 28 ± 5 | 0.028 ± 0.004 0.7 ± 0.1 | inches mm |
| RS 2 | 0.59 ± 0.04 15 ± 1 | 0.2 ± 0.04 5 ± 1 | 1.26 ± 0.24 32 ± 6 | 0.029 ± 0.004 0.75 ± 0.1 | inches mm |
| RS 3 | 0.71 ± 0.08 17.5 ± 2 | 0.26 ± 0.02 6.5 ± 0.5 | 1.38 ± 0.12 35 ± 3 | 0.031 ± 0.002 0.8 ± 0.05 | inches mm |
| RS 5 | 0.96 ± 0.08 24.5 ± 2 | 0.34 ± 0.02 8.5 ± 0.5 | 1.38 ± 0.12 35 ± 3 | 0.031 ± 0.002 0.8 ± 0.05 | inches mm |
| RSM 1/2 | 0.26 ± 0.02 6.5 ± 0.5 | 0.09 ± 0.01 2.3 ± 0.2 | 1.1 ± 0.12 28 ± 3 | 0.02 ± 0.003 0.55 ± 0.07 | inches mm |
| RSM 1 | 0.35 ± 0.04 9 ± 1 | 0.13 ± 0.02 3.2 ± 0.6 | 1.1 ± 0.12 28 ± 3 | 0.026 ± 0.003 0.65 ± 0.01 | inches mm |
| RSM 2 | 0.43 ± 0.04 11 ± 1 | 0.17 ± 0.03 4.2 ± 0.8 | 1.18 ± 0.20 30 ± 5 | 0.029 ± 0.004 0.75 ± 0.1 | inches mm |
| RSM 3 | 0.59 ± 0.04 15 ± 1 | 0.2 ± 0.04 5 ± 1 | 1.26 ± 0.24 32 ± 6 | 0.029 ± 0.004 0.75 ± 0.1 | inches mm |
| RSM 5 | 0.71 ± 0.08 17.5 ± 2 | 0.26 ± 0.02 6.5 ± 0.5 | 1.38 ± 0.08 35 ± 2 | 0.031 ± 0.002 0.8 ± 0.05 | inches mm |

| Performance Characteristics | | | |
|---------------------------------|--------------------------|-------------|-----------|
| Test | Standard / Method | Requirement | |
| | | RSM Series | RS Series |
| Short Time Over Load | JISC 5202 5.5 | ± 2% | ±1% |
| Biased Humidity | MIL-STD 202, Method 103 | ± 1.5% | |
| Dielectric Withstanding Voltage | MIL-STD 202, Method 103 | ± 0.5% | |
| Load Life | MIL-STD 202, Method 103 | ± 2% | |
| Load Life in Humidity | JISC 5202 7.9 | ± 2% | |
| Temperature Cycling | JESD22 Method JA-104 | ± 1% | |
| Low Temperature Operation | MIL-STD 202, Method 103 | ± 0.5% | |
| Moisture Resistance | MIL-STD 202, Method 103 | ± 0.5% | |
| Resistance to Solder Heat | MIL-STD 202, Method 210F | ± 1% | |
| Terminal Strength | MIL-STD 202, Method 103 | ± 0.2% | |
| Vibration | MIL-STD 202, Method 103 | ± 0.5% | |

Operating Temperature Range: -55°C to +200°C (RS 1/2, RSM 1)
-55°C to +235°C (All others)