

- 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)



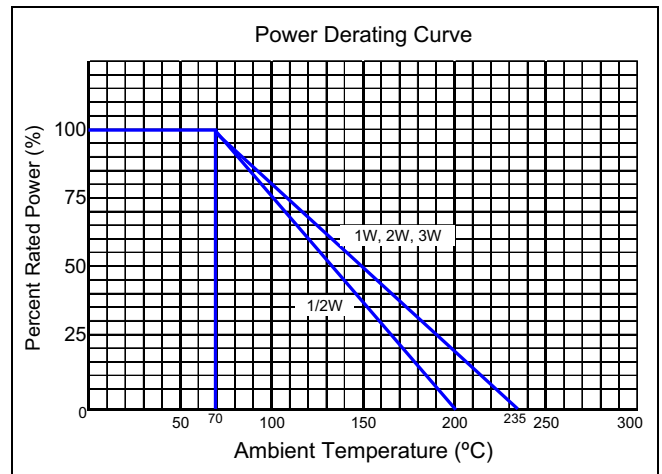
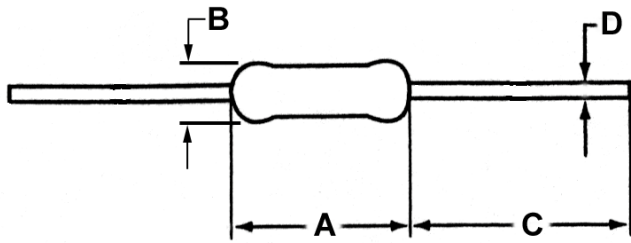
Electrical Specifications							
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage <sup>Ⓞ</sup>	Maximum Overload Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range and Tolerance	
						1%	2%, 5%
RS 1/2	0.5W	250V	400V	600V	±200 ppm/°C	0.1Ω - 75KΩ	0.1Ω - 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

<sup>Ⓞ</sup>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 <sup>Ⓞ</sup>	Panasert	5	5W			RSM 1/2	5,000		
PRSF <sup>Ⓞ</sup>	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

<sup>Ⓞ</sup>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)