

- 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
  - Flameproof
  - RoHS compliant / lead-free

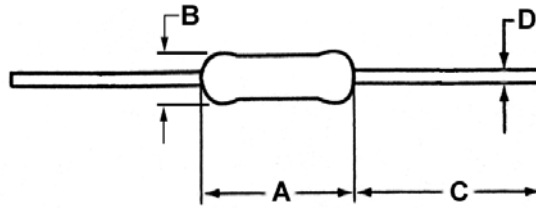


Electrical Specifications							
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
						1%	2%, 5%
RSF 1/2	0.5W	250V	400V	600V	±200 ppm/°C	0.1 - 75K	0.1 - 1M
RSF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

(1) Lesser of  $\sqrt{PR}$  or maximum working voltage

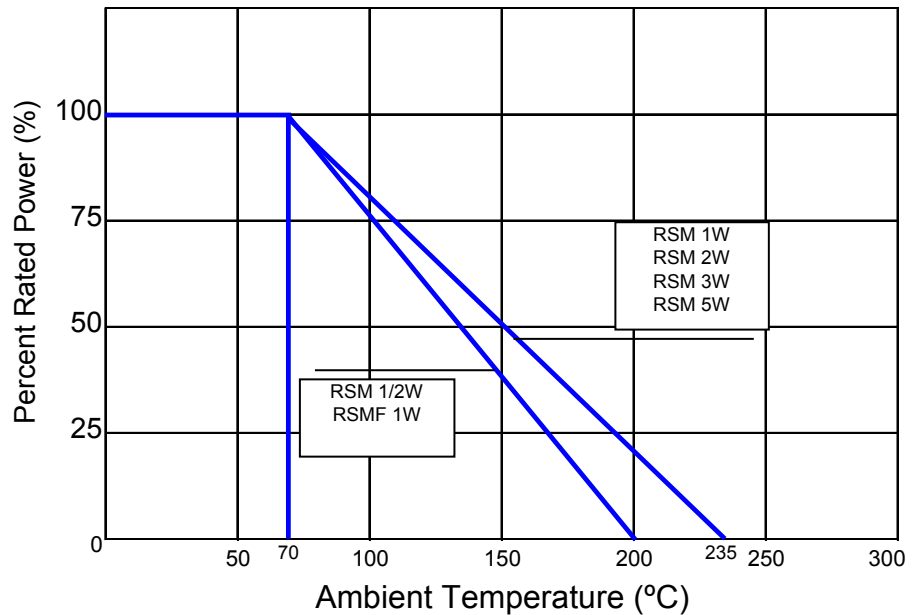
Performance Characteristics			
Test	Standard / Method	Requirement	
		RSMF Series	RSF Series
Short Time Over Load	JISC 5202 5.5	± 2%	±1%
Humidity	MIL-STD 202, Method 103	± 1.5%	
Dielectric Withstanding Voltage	MIL-STD 202, Method 301	± 0.5%	
Load Life	MIL-STD 202, Method 108	± 2%	
Load Life in Humidity	JISC 5202 7.9	± 2%	
Temperature Cycling	JESD22 Method JA-104	± 1%	
Moisture Resistance	MIL-STD 202, Method 106	± 0.5%	
Resistance to Solder Heat	MIL-STD 202, Method 210F	± 1%	
Terminal Strength	MIL-STD 202, Method 211	± 0.2%	
Vibration	MIL-STD 202, Method 201	± 0.5%	

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



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
RSF 1/2	0.35 ± 0.04	0.14 ± 0.02	1.1 ± 0.12	0.024 ± 0.003	inches
	9.0 ± 1.0	3.5 ± 0.5	28.0 ± 3.0	0.6 ± 0.01	mm
RSF 1	0.43 ± 0.04	0.18 ± 0.02	1.1 ± 0.20	0.028 ± 0.004	inches
	11.0 ± 1.0	4.5 ± 0.5	28.0 ± 5.0	0.7 ± 0.1	mm
RSF 2	0.59 ± 0.04	0.2 ± 0.04	1.26 ± 0.24	0.029 ± 0.004	inches
	15.0 ± 1.0	5.0 ± 1.0	32.0 ± 6.0	0.75 ± 0.1	mm
RSF 3	0.71 ± 0.08	0.26 ± 0.02	1.38 ± 0.12	0.031 ± 0.002	inches
	17.5 ± 2.0	6.5 ± 0.5	35.0 ± 3.0	0.8 ± 0.05	mm
RSF 5	0.96 ± 0.08	0.34 ± 0.02	1.38 ± 0.12	0.031 ± 0.002	inches
	24.5 ± 2.0	8.5 ± 0.5	35.0 ± 3.0	0.8 ± 0.05	mm
RSMF 1/2	0.26 ± 0.02	0.09 ± 0.01	1.1 ± 0.12	0.02 ± 0.003	inches
	6.5 ± 0.5	2.3 ± 0.2	28.0 ± 3.0	0.55 ± 0.07	mm
RSMF 1	0.35 ± 0.04	0.13 ± 0.02	1.1 ± 0.12	0.026 ± 0.003	inches
	9.0 ± 1.0	3.2 ± 0.6	28.0 ± 3.0	0.65 ± 0.01	mm
RSMF 2	0.43 ± 0.04	0.17 ± 0.03	1.18 ± 0.20	0.029 ± 0.004	inches
	11.0 ± 1.0	4.2 ± 0.8	30.0 ± 5.0	0.75 ± 0.1	mm
RSMF 3	0.59 ± 0.04	0.2 ± 0.04	1.26 ± 0.24	0.029 ± 0.004	inches
	15.0 ± 1.0	5.0 ± 1.0	32.0 ± 6.0	0.75 ± 0.1	mm
RSMF 5	0.71 ± 0.08	0.26 ± 0.02	1.38 ± 0.08	0.031 ± 0.002	inches
	17.5 ± 2.0	6.5 ± 0.5	35.0 ± 2.0	0.8 ± 0.05	mm

Power Derating Curve:



**How to Order**

SEI Type		Code		Nominal Resistance	Tolerance		Packaging			
RS		1/2		0.47	5%		R			
Type	Description	Code	Wattage	Tolerance		Values	Types	Qty	Description	Code
RSF	Metal Oxide	1/2	0.5W	1%	E96		RSMF 1/2	5,000	tape and reel	R
RSMF	Mini	1	1W	2%	E24		RSF 1/2, RSMF 1, RSF 1, RSMF 2	2,500		
PRSF (1)	Panasert	2	2W	5%	E24		RSF 2, RSMF 3	1,000		
		3	3W				RSF 3, RSMF 5	500		
		5	5W				RSMF 1/2	5,000	ammo	T
							RSF 1/2, RSMF 1	2,000		
							RSF 1, RSF 2, RSMF 2, RSMF 3	1,000		
							RSF 3, RSMF 5	500		
							All	1,000	bulk	A

(1) For packaging information see Radial Leaded Packaging Spec page

New part number format starting January 3<sup>rd</sup>, 2011:

**How to Order**

1	2	3	4	5	6	7	8	9	10	11
R	S	F	1	2	J	T	R	4	7	0

Product Series		Size	Power	Tolerance		Code	Description	Size	Quantity	Resistance Value
RSF	Metal Oxide	12	0.5W	Code	Tol	T	tape and reel	RSMF 12	5,000	Four characters with the multiplier used as the decimal holder.
RSMF	Mini	1	1W	F	1%	A	ammo	RSF 12, 1; RSMF 1, 2	2,500	
PRSF(1)	Panasert	2	2W	G	2%			RSF 2, RSMF 3	1,000	
		3	3W	J	5%			RSF 3, RSMF 5	500	
		5	5W					RSMF 12	5,000	0.22 ohm = R220
								RSF 12; RSMF 1	2,000	33.2 ohm = 33R2
								RSF 1, 2; RSMF 2, 3	1,000	10.2 Kohm = 10K2
								RSF 3, RSMF 5	500	1 Mohm = 1M00
							B	bulk	all sizes	1,000

(1) For packaging information see Radial Leaded Packaging Spec page