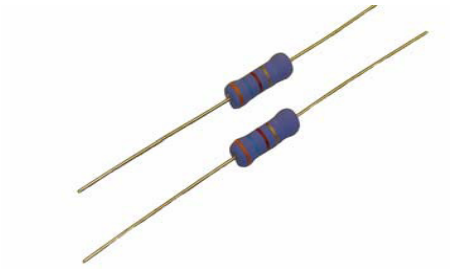
Features:

- 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

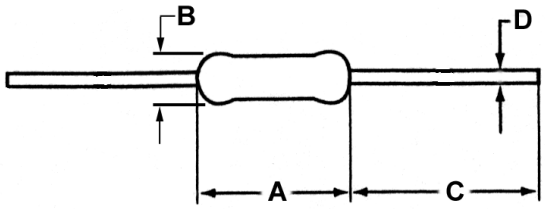
Type / Code	Power Rating (Watts) @ 70ºC	Maximum Working Voltage (1)	Maximum Overload Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
						1%	2%	5%
RSF12	0.5W	250V	400V	600V	±200 ppm/ºC	0.1 - 150K	0.1 - 75K	0.1 - 1M
RSF1	1W	350V	600V	600V	±200 ppm/ºC	0.1 - 100K	0.1 - 100K	0.1 - 1M
RSF2	2W	350V	600V	600V	±200 ppm/ºC	0.1 - 120K	0.1 - 120K	0.1 - 1M
RSF3	3W	400V	700V	600V	±200 ppm/ºC	0.1 - 470K	0.1 - 560K	0.1 - 1M
RSF5	5W	750V	1,000V	1,000V	±200 ppm/ºC	0.1 - 470K	0.1 - 560K	0.1 - 1M
RSMF12	0.5W	250V	400V	350V	±200 ppm/ºC	0.1 - 46.4K	0.1 - 47K	0.1 - 470K
RSMF1	1W	350V	600V	500V	±200 ppm/ºC	0.1 - 75K	0.1 - 75K	0.1 - 470K
RSMF2	2W	350V	600V	500V	±200 ppm/ºC	0.1 - 100K	0.1 - 100K	0.1 - 470K
RSMF3	3W	500V	800V	500V	±200 ppm/ºC	0.1 - 118K	0.1 - 120K	0.1 - 470K
RSMF5	5W	750V	1,000V	750V	±200 ppm/ºC	0.1 - 470K	0.1 - 560K	0.1 - 1M

(1) Lesser of √PR or maximum working voltage

Performance Characteristics

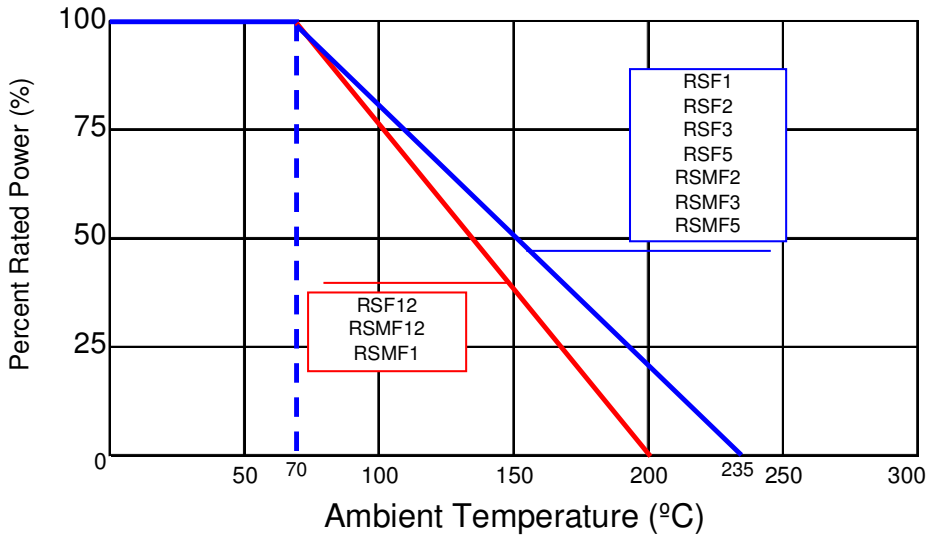
Test	Standard / Method	Requirement	
		RSMF Series	RSF Series
Short Time Over Load	JISC 5202 5.5	± 2%	±1%
Humidity	MIL-STD 202, Method 103	± 1.5%	
Dielectric Withstanding Voltage	MIL-STD 202, Method 301	± 0.5%	
Load Life	MIL-STD 202, Method 108	± 2%	
Load Life in Humidity	JISC 5202 7.9	± 2%	
Temperature 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: -55ºC to +200ºC (RSF 1/2, RSMF 1)
-55ºC to +235ºC (All others)



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Unit
RSF12	0.35 ± 0.04 9.00 ± 1.00	0.14 ± 0.02 3.50 ± 0.50	1.10 ± 0.12 28.00 ± 3.00	0.02 ± 0.0004 0.60 ± 0.01	inches mm
RSF1	0.43 ± 0.04 11.00 ± 1.00	0.18 ± 0.02 4.50 ± 0.50	1.10 ± 0.20 28.00 ± 5.00	0.03 ± 0.004 0.70 ± 0.10	inches mm
RSF2	0.59 ± 0.04 15.00 ± 1.00	0.20 ± 0.04 5.00 ± 1.00	1.34 ± 0.16 34.00 ± 4.00	0.03 ± 0.004 0.75 ± 0.10	inches mm
RSF3	0.69 ± 0.08 17.50 ± 2.00	0.26 ± 0.02 6.50 ± 0.50	1.38 ± 0.12 35.00 ± 3.00	0.03 ± 0.002 0.80 ± 0.05	inches mm
RSF5	0.96 ± 0.08 24.50 ± 2.00	0.33 ± 0.02 8.50 ± 0.50	1.38 ± 0.12 35.00 ± 3.00	0.03 ± 0.002 0.80 ± 0.05	inches mm
RSMF12	0.26 ± 0.02 6.50 ± 0.50	0.09 ± 0.01 2.30 ± 0.20	1.10 ± 0.12 28.00 ± 3.00	0.02 ± 0.003 0.55 ± 0.07	inches mm
RSMF1	0.35 ± 0.04 9.00 ± 1.00	0.13 ± 0.02 3.20 ± 0.60	1.10 ± 0.12 28.00 ± 3.00	0.03 ± 0.0004 0.65 ± 0.01	inches mm
RSMF2	0.43 ± 0.04 11.00 ± 1.00	0.17 ± 0.03 4.20 ± 0.80	1.18 ± 0.20 30.00 ± 5.00	0.03 ± 0.004 0.75 ± 0.10	inches mm
RSMF3	0.59 ± 0.04 15.00 ± 1.00	0.20 ± 0.04 5.00 ± 1.00	1.34 ± 0.16 34.00 ± 4.00	0.03 ± 0.004 0.75 ± 0.10	inches mm
RSMF5	0.69 ± 0.08 17.50 ± 2.00	0.26 ± 0.02 6.50 ± 0.50	1.38 ± 0.08 35.00 ± 2.00	0.03 ± 0.002 0.80 ± 0.05	inches mm

Power Derating Curve:



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	
RSF	Metal Oxide
RSMF	Mini
PRSF(1)	Panasert

Size	Power
12	0.5W
1	1W
2	2W
3	3W
5	5W

Tolerance		
Code	Tol	Value
F	1%	E96
G	2%	E24
J	5%	

Code	Description	Size	Quantity
T	Tape and Reel	RSMF12	5,000
		RSF12, RSF1 RSMF1, RSMF2	2,500
		RSF2, RSMF3 RSF3, RSMF5	1,000
A	Ammo	RSMF12	5,000
		RSF12; RSMF1	2,000
		RSF1, RSF2 RSMF2, RSMF3	1,000
		RSF3, RSMF5	500
B	Bulk	all sizes	1,000

Resistance Value
Four characters with the multiplier used as the decimal holder.
0.22 ohm = R220 33.2 ohm = 33R2 10.2 Kohm = 10K2 1 Mohm = 1M00

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

Legacy Part Number (before January 3, 2011):

SEI Type	Code	Nominal Resistance	Tolerance	Packaging
RS	1/2	0.47	5%	R

Type	Description
RSF	Metal Oxide
RSMF	Mini
PRSF (1)	Panasert

Code	Wattage
1/2	0.5W
1	1W
2	2W
3	3W
5	5W

Tolerance	Values
1%	E96
2%	E24
5%	E24

Types	Qty	Description	Code
RSMF12	5,000	tape and reel	R
RSF12, RSMF1, RSF1, RSMF2	2,500		
RSF2, RSMF3 RSF3, RSMF5	1,000		
RSMF12	5,000	ammo	T
RSF12, RSMF1	2,000		
RSF1, RSF2, RSMF2, RSMF3	1,000		
RSF3, RSMF5	500		
All	1,000	bulk	A

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