

- 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

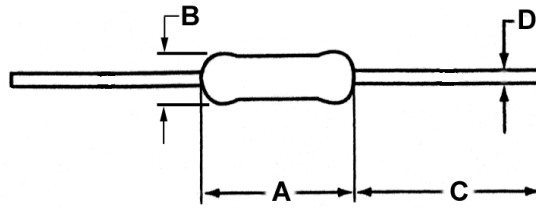


Electrical Specifications								
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
						1%	2%	5%
RSF12	0.5W	250V	400V	600V	±200 ppm/°C	0.1 - 150K	0.1 - 75K	0.1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

(1) Lesser of √PR or maximum working voltage

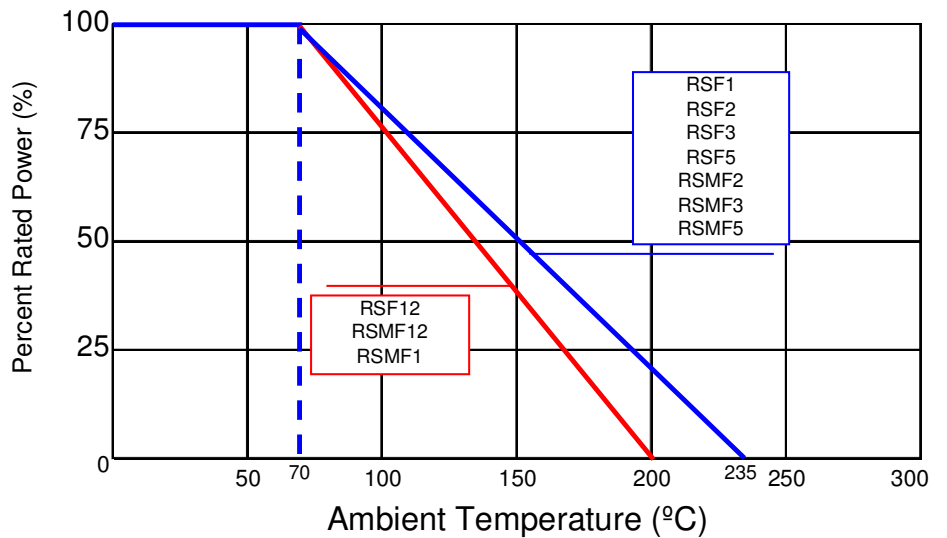
Performance Characteristics			
Test	Standard / Method	Requirement	
		RSMF Series	RSF Series
Short Time Over Load	JISC 5202 5.5	±2%	±1%
Humidity	MIL-STD 202, Method 103	±1.5%	
Dielectric Withstanding Voltage	MIL-STD 202, Method 301	±0.5%	
Load Life	MIL-STD 202, Method 108	±2%	
Load Life in Humidity	JISC 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: -55°C to +200°C (RSF12, RSMF12, RSMF1)
-55°C to +235°C (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	0.14 ± 0.02	1.10 ± 0.12	0.02 ± 0.0004	inches
	9.00 ± 1.00	3.50 ± 0.50	28.00 ± 3.00	0.60 ± 0.01	mm
RSF1	0.43 ± 0.04	0.18 ± 0.02	1.10 ± 0.20	0.03 ± 0.004	inches
	11.00 ± 1.00	4.50 ± 0.50	28.00 ± 5.00	0.70 ± 0.10	mm
RSF2	0.59 ± 0.04	0.20 ± 0.04	1.34 ± 0.16	0.03 ± 0.004	inches
	15.00 ± 1.00	5.00 ± 1.00	34.00 ± 4.00	0.75 ± 0.10	mm
RSF3	0.69 ± 0.08	0.26 ± 0.02	1.38 ± 0.12	0.03 ± 0.002	inches
	17.50 ± 2.00	6.50 ± 0.50	35.00 ± 3.00	0.80 ± 0.05	mm
RSF5	0.96 ± 0.08	0.33 ± 0.02	1.38 ± 0.12	0.03 ± 0.002	inches
	24.50 ± 2.00	8.50 ± 0.50	35.00 ± 3.00	0.80 ± 0.05	mm
RSMF12	0.26 ± 0.02	0.09 ± 0.01	1.10 ± 0.12	0.02 ± 0.003	inches
	6.50 ± 0.50	2.30 ± 0.20	28.00 ± 3.00	0.55 ± 0.07	mm
RSMF1	0.35 ± 0.04	0.13 ± 0.02	1.10 ± 0.12	0.03 ± 0.0004	inches
	9.00 ± 1.00	3.20 ± 0.60	28.00 ± 3.00	0.65 ± 0.01	mm
RSMF2	0.43 ± 0.04	0.17 ± 0.03	1.18 ± 0.20	0.03 ± 0.004	inches
	11.00 ± 1.00	4.20 ± 0.80	30.00 ± 5.00	0.75 ± 0.10	mm
RSMF3	0.59 ± 0.04	0.20 ± 0.04	1.34 ± 0.16	0.03 ± 0.004	inches
	15.00 ± 1.00	5.00 ± 1.00	34.00 ± 4.00	0.75 ± 0.10	mm
RSMF5	0.69 ± 0.08	0.26 ± 0.02	1.38 ± 0.08	0.03 ± 0.002	inches
	17.50 ± 2.00	6.50 ± 0.50	35.00 ± 2.00	0.80 ± 0.05	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		Size	Power	Tolerance			Code	Description	Size	Quantity	Resistance Value	
RSF	Metal Oxide	12	0.5W	Code	Tol	Value	T	Tape and Reel	RSMF12	5,000	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	
RSMF	Mini	1	1W	F	1%	E96			RSF12, RSF1	RSMF1, RSMF2		2,500
PRSF(1)	Panasert	2	2W	G	2%	E24			RSF2, RSMF3	RSF3, RSMF5		1,000
		3	3W	J	5%				RSMF12			5,000
		5	5W						RSF12; RSMF1			2,000
							RSF1, RSMF2, RSMF3	RSF2, RSF3, RSMF5	500			
							B	Bulk	All Sizes	1,000		

(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	Code	Wattage	Tolerance	Values	Types	Qty	Description	Code
RSF	Metal Oxide	1/2	0.5W	1%	E96	RSMF12	5,000	tape and reel	R
RSMF	Mini	1	1W	2%	E24	RSF12, RSMF1, RSF1, RSMF2	2,500		
PRSF (1)	Panasert	2	2W	5%	E24	RSF2, RSMF3, RSF3, RSMF5	1,000		
		3	3W			RSMF12	5,000	ammo	T
		5	5W			RSF12, RSMF1	2,000		
						RSF1, RSMF2, RSMF3	1,000		
						RSF2, RSF3, RSMF5	500		
						All	1,000	bulk	A

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