

- 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

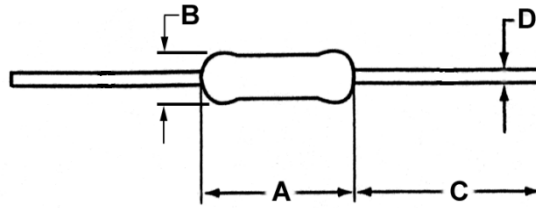


Electrical Specifications								
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Dielectric Withstanding Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance		
						1%	2%	5%
RSF12	0.5W	250V	400V	350V	±200 ppm/°C	0.1 - 150K	0.1 - 75K	0.1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

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

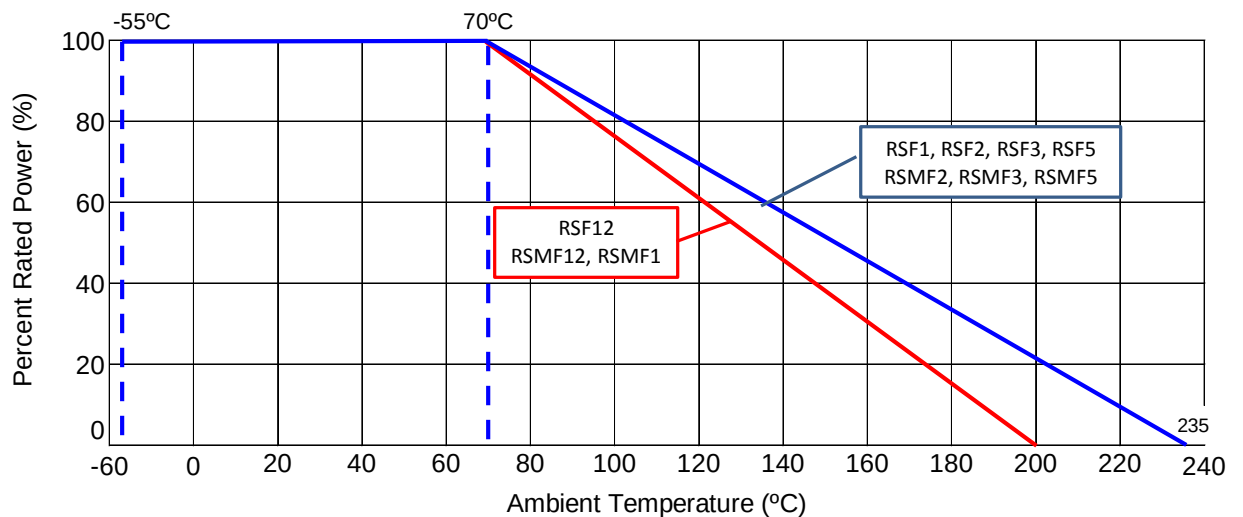
Performance Characteristics			
Test	Standard / Method	Requirement	
		RSMF Series	RSF Series
Short Time Over Load	JISC 5202 5.5	±2%	±1%
Humidity	MIL-STD 202, Method 103	±1.5%	
Dielectric Withstanding Voltage	MIL-STD 202, Method 301	±0.5%	
Load Life	MIL-STD 202, Method 108	±2%	
Load Life in Humidity	JISC 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%	
Insulation Resistance	JIS C5201-1, IEC60115-1	≥ 1Gohm	
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)

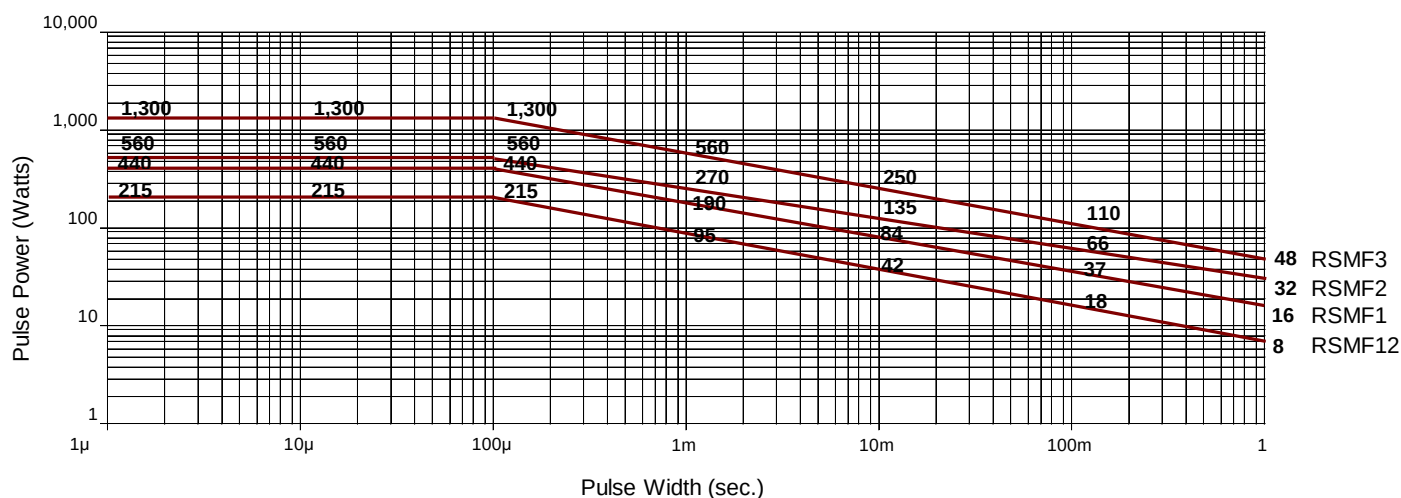


Mechanical Specifications						
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Lead-Tape Specification	Unit
RSF12	0.35 ± 0.04	0.13 ± 0.03	1.10 ± 0.12	0.03 ± 0.003	0.250	inches
	9.00 ± 1.00	3.20 ± 0.80	28.00 ± 3.00	0.70 ± 0.08	6.35	mm
RSF1	0.43 ± 0.06	0.18 ± 0.04	1.10 ± 0.20	0.03 ± 0.002	0.250	inches
	11.00 ± 1.50	4.50 ± 1.00	28.00 ± 5.00	0.80 ± 0.05	6.35	mm
RSF2	0.59 ± 0.06	0.22 ± 0.04	1.18 ± 0.20	0.03 ± 0.004	0.250	inches
	15.00 ± 1.50	5.50 ± 1.00	30.00 ± 5.00	0.75 ± 0.10	6.35	mm
RSF3	0.69 ± 0.04	0.24 ± 0.02	1.38 ± 0.12	0.03 ± 0.002	0.250	inches
	17.50 ± 1.00	6.00 ± 0.50	35.00 ± 3.00	0.80 ± 0.05	6.35	mm
RSF5	0.96 ± 0.04	0.31 ± 0.02	1.38 ± 0.12	0.03 ± 0.002	0.250	inches
	24.50 ± 1.00	8.00 ± 0.50	35.00 ± 3.00	0.80 ± 0.05	6.35	mm
RSMF12	0.24 ± 0.03	0.09 ± 0.01	1.10 ± 0.12	0.02 ± 0.003	0.250	inches
	6.00 ± 0.80	2.30 ± 0.30	28.00 ± 3.00	0.55 ± 0.07	6.35	mm
RSMF1	0.35 ± 0.04	0.13 ± 0.03	1.10 ± 0.12	0.03 ± 0.003	0.250	inches
	9.00 ± 1.00	3.20 ± 0.80	28.00 ± 3.00	0.70 ± 0.08	6.35	mm
RSMF2	0.43 ± 0.06	0.18 ± 0.04	1.18 ± 0.20	0.03 ± 0.002	0.250	inches
	11.00 ± 1.50	4.50 ± 1.00	30.00 ± 5.00	0.80 ± 0.05	6.35	mm
RSMF3	0.59 ± 0.06	0.22 ± 0.04	1.18 ± 0.20	0.03 ± 0.004	0.250	inches
	15.00 ± 1.50	5.50 ± 1.00	30.00 ± 5.00	0.75 ± 0.10	6.35	mm
RSMF5	0.69 ± 0.04	0.24 ± 0.02	1.38 ± 0.08	0.03 ± 0.002	0.250	inches
	17.50 ± 1.00	6.00 ± 0.50	35.00 ± 2.00	0.80 ± 0.05	6.35	mm

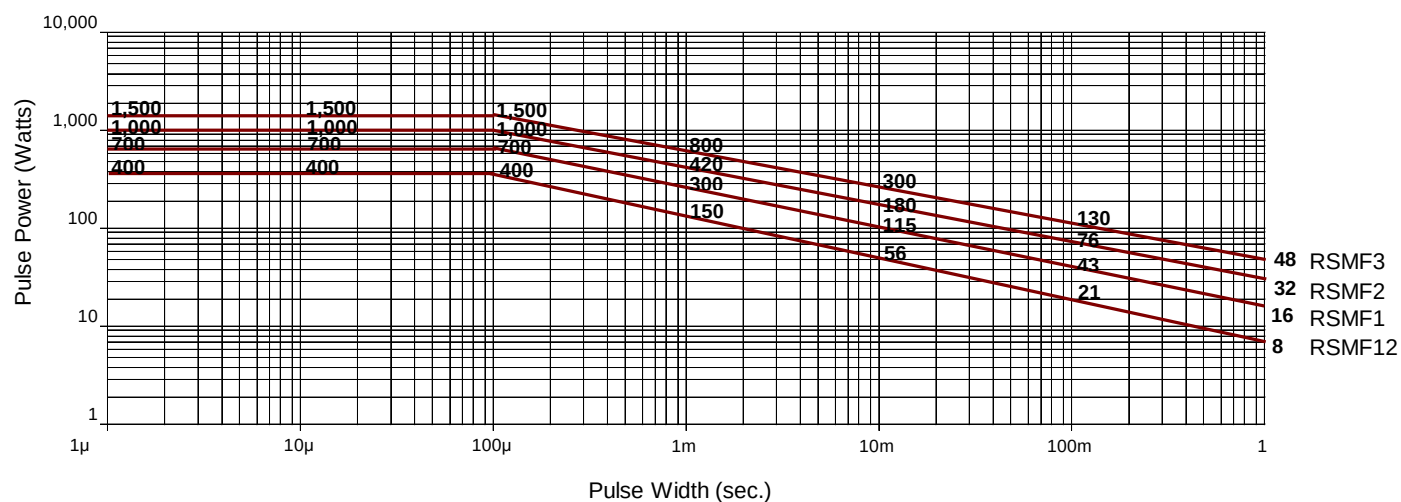
Power Derating Curve:



Pulse Limiting Power (One Pulse) / RSMF Series $\leq 5\Omega$



Pulse Limiting Power (One Pulse) / RSMF Series $\geq 5\Omega$



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			Packaging				Resistance Value
				Code	Tol	Value	Code	Description	Size	Quantity	
RSF	Metal Oxide	12	0.5W						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%				RSF5	500	
		5	5W						RSMF12	5,000	
							T	Tape and Reel	RSF12; RSMF1	2,000	
									RSF1, RSF2, RSMF2, RSMF3	1,000	
									RSF3, RSF5, RSMF5	500	
							B	Bulk	All Sizes	1,000	
							A	Ammo			

(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			RSF5	500		
		5	5W			RSMF12	5,000	Ammo	T
						RSF12, RSMF1	2,000		
						RSF1, RSF2, RSMF2, RSMF3	1,000		
						RSF3, RSF5, RSMF5	500		
						All	1,000	Bulk	A

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