

METAL OXIDE RESISTORS, 1/2W to 9W

RSF SERIES- Standard RMF SERIES- Miniature



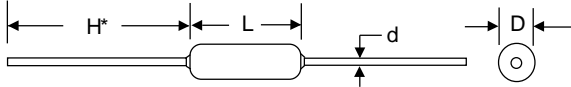
Term.W is
RoHS
compliant
& 260°C
compatible



RESISTORS • CAPACITORS • COILS • DELAY LINES



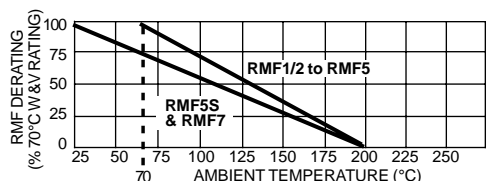
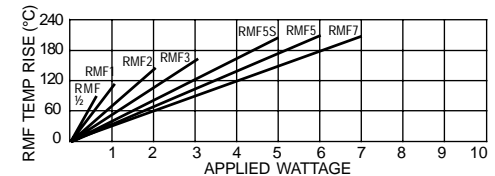
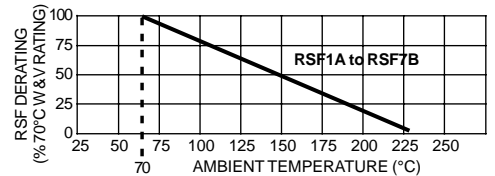
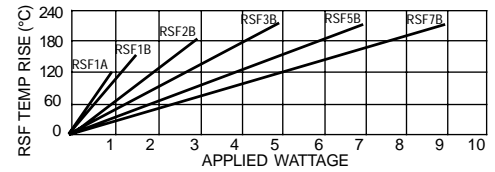
- Low cost! Delivery from stock (standard E-24 values, 5%)
- Flameproof construction (UL94V-0)
- 0.1Ω to 1 Meg, standard tolerances: ±1%, ±2%, ±5%
- All sizes avail. on horizontal tape, 1/2-3W avail. on vertical tape
- Options include increased voltages, custom marking, cut & formed leads, Sn-Pb solder leads (Opt. Q), high pulse (Opt. P), etc.



* Dim. H is for bulk pack, taped leads may be shorter (refer to taping spec). Non-std lengths and cut&form avail

Stock	SERIES RSF	Wattage		Max. Voltage Rating ¹	Opt. P Peak Pulse Voltage ²	Standard Resistance Range	L±.032 [.8]	D±.025 [.6]	d±.004 [.1]	H* (Min.)
		25°C	70°C							
Stock	RSF1A	1.0W	0.7W	300V	2KV	0.1Ω to 1M	.354 [9]	.135 [3.4]	.025 [.65]	.945 [24]
Stock	RSF1B	1.5W	1.0W	350V	2.5KV	0.1Ω to 1M	.433 [11]	.165 [4.2]	.031 [.8]	.945 [24]
Stock	RSF2B	3.0W	2.0W	350V	3KV	0.1Ω to 1M	.590 [15]	.212 [5.4]	.031 [.8]	1.06 [27]
Stock	RSF3B	5.0W	3.0W	500V	4.5KV	0.47Ω to 1M	.950 [24.1]	.320 [8.1]	.031 [.8]	1.25 [31.7]
	RSF5B	7.0W	5.0W	750V	6KV	0.5Ω to 240K	1.585 [40.3]	.320 [8.1]	.031 [.8]	1.375 [35]
	RSF7B	9.0W	7.0W	800V	8KV	2.0Ω to 510K	2.080 [52.8]	.320 [8.1]	.031 [.8]	1.375 [35]

Stock	SERIES RMF	Wattage Rating	Max Voltage Rating ¹	Opt. P Peak Pulse Voltage ²	Standard Resistance Range	L±.032 [.8]	D±.025 [.6]	d±.004 [.1]	H* (Min.)
	RMF1/2	.5W @70°C	250V	2KV	0.1Ω -510K	.250 [6.35]	.090 [2.3]	.024 [.6]	.945 [24]
	RMF1	1W @70°C	300V	2.5KV	0.1Ω -1M	.375 [9.53]	.135 [3.4]	.024 [.6]	.945 [24]
	RMF2	2W @70°C	350V	3KV	0.1Ω 1M	.450 [11.4]	.162 [4.1]	.031 [.8]	.945 [24]
	RMF3	3W @70°C	350V	3.5KV	0.1Ω -1M	.598 [15.2]	.213 [5.4]	.031 [.8]	1.25 [31.7]
	RMF5	5W @70°C	500V	5KV	0.47Ω -1M	.950 [24.1]	.335 [8.5]	.031 [.8]	1.375 [35]
	RMF5S	5W @25°C	500V	4KV	0.47Ω -1M	.695 [17.6]	.250 [6.4]	.031 [.8]	1.25 [31.7]
	RMF7	7W @25°C	500V	5KV	0.47Ω -1M	.950 [24.1]	.335 [8.5]	.031 [.8]	1.375 [35]



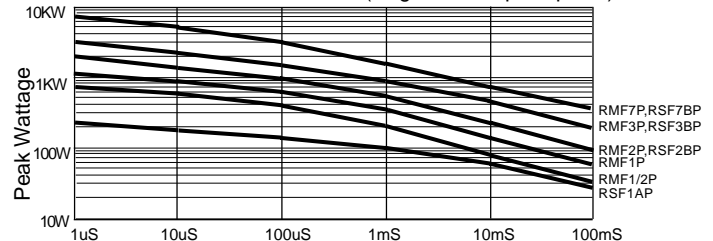
TYPICAL PERFORMANCE CHARACTERISTICS

Temperature Coefficient	±100ppm Typ., ±200 Max.
Insulation Resistance	10,000 MΩ Min.
Load Life (1000 hours)	±2% RSF70, ±3% RSF25, ±3% RMF
Short-Time Overload	2.5x rated W, 5S, nte 2x rated V
Temperature Cycling	±1.0%
Moisture Resistance	±2.0%
Shock and Vibration	±0.2%
Effect of Soldering	±0.5%
Voltage Coefficient	.001%/V
Current Noise	<.1μV/V/decade
Dielectric Strength	500V (350V sizes <2W)
Standard Marking (custom marking avail)	Color banded or stamped with resis.value & tol as minimum
Terminal Strength	5 pound pull (minimum)
Operating Temp Range	-55 to +235°C (+200°C RMF)

¹ Rated continuous working voltage determined by $E=(PR)^{1/2}$, E not to exceed max voltage rating. Increased ratings avail.

² Peak voltage is for Opt.P (derate 50% for std parts), single & infrequent pulses (derate 30-50% for frequent pulses), based on 1uS pulse duration (derate 10-30% for longer pulses). Pulse to be ≤ peak wattage and ≤ peak voltage rating. Average pulse power to be ≤ watt rating. Consult factory for assistance, verify samples.

OPTION P PULSE CAPABILITY (single or infrequent pulse)²



P/N DESIGNATION:

RCD Type _____ **RSF2B** **- 101 - J T W**

Option Codes: leave blank if standard _____

Resis.Code 1%: 3 signif. figures & multiplier, (R100=1Ω, 1R00=1Ω, 10R0=10Ω, 1000=100Ω, 1001=1K, 1004=1M)

Resis.Code 2%-10%: 2 signif. figures & multiplier, (R10=0.1Ω, 1R0=1Ω, 100=10Ω, 101=100Ω, 102=1K, 105=1M)

Tolerance Code: J=5% (std), G=2%, F=1%

Packaging: B = Bulk, T = Horizontal Tape & Reel, APN=Vertical Tape & Box (available up to 3W size)

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable)