



METAL OXIDE FILM RESISTORS

Introduction

RSF series is a group of electric power type highly reliable fixed resistors with special metal oxide film thermochemically burned on the high heat conductive base material. They include those of flame-resisting coating type and nonflammable coating type and they owing to their uniform quality produced through the most modern products able to use easily for various kinds of electronic devices and instruments.

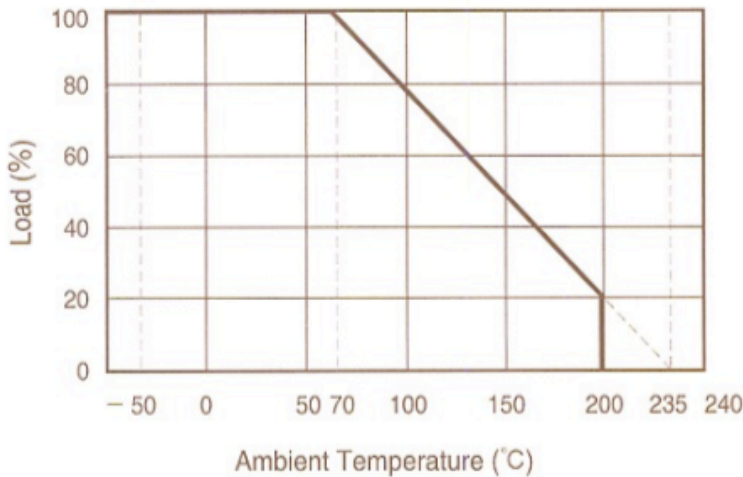
RSS is a group of small-sized metal oxide film resistors, apply high aluminum content ceramic coress with performance for compact sizes.

Features

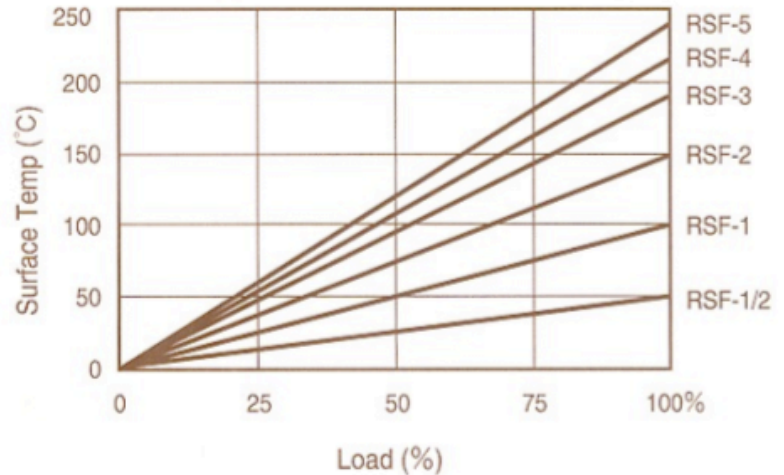
1. Small in size comparatively.
2. Electrical and mechanical stability and high reliability.
3. Best resistive to heat, humidity and noncombustible.
4. Annual shift is the lowest for the strengthen metal oxide film.
5. Low noise, with high resistance value which wire wound type can not be produced.

- Coating and marking resist Trichlore thelyne, Freon, and other cleaning agents.
- Improved stability, dissipation, and low TCR available. Consult factory.
- RSF 1/2-3W apply color code, RSF 4-7W apply graphic marking.

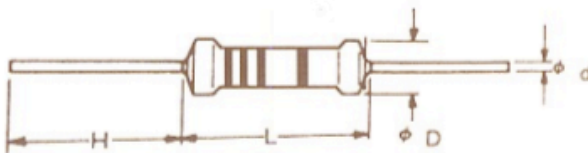
Derating Curve



Surface Temp Rise



Dimensions





On-Site Components, LLC

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General Specification

Style		Dimensions				Max. Working V.	Max. Overload V.	Resistance Range ± 5% (J)
RSS	RSF	L	D	d	H (MIN)			
1/2W	1/4W	6.5 ± 1	2.3 ± 0.5	0.50 ± 0.05	25	250V	500V	0.1 Ω ~1M
1W	1/2W	9 ± 1	3.5 ± 0.5	0.55 ± 0.05	25	300V	600V	0.1 Ω ~1M
2W	1W	12 ± 1	4.5 ± 0.5	0.73 ± 0.05	27	350V	700V	0.1 Ω ~1M
3W	2W	16 ± 1	5.5 ± 0.5	0.75 ± 0.05	27	350V	700V	0.1 Ω ~1M
5W	3W	25 ± 1	8.5 ± 0.5	0.75 ± 0.05	27	500V	1000V	0.5 Ω ~1M
6W	4W	32 ± 1	8.5 ± 0.5	0.75 ± 0.05	27	500V	1000V	10 Ω ~1M
7W	5W	41 ± 1	8.5 ± 0.5	0.75 ± 0.05	27	750V	1000V	10 Ω ~150K Ω
10W	7W	53 ± 1	8.5 ± 0.5	0.75 ± 0.05	27	750V	1000V	10 Ω ~150K Ω

Characteristics

Requirements	Performance	Test Method	
		JIS-C-5202	MIL-STD-202
Operating Temp. Range	- 55°C ~ + 155°C	-	-
Temp. Coefficient (ppm/°C)	± 350	5.2	METHOD 304
Short Time Overload	Δ Rmax ≤ ±(1% + 0.05 Ω)	5.5 -A	-
Resistance to Soldering Heat	Δ Rmax ≤ ±(1% + 0.05 Ω)	6.4. 350°C 3 Sec	METHOD 210
Temp. Cycling	Δ Rmax ≤ ±(1% + 0.05 Ω)	7.4. - 55°C/85°C, 5 cycle	METHOD 107
Moisture Resistance	Δ Rmax ≤ ± 5%	7.9 95% RH on-off 1,000 hr	METHOD 106
Load Life	Δ Rmax ≤ ± 5%	7.10 70°C RH on-off 1,000 hr	METHOD 108
Dielectric Withstanding Voltage	Δ Rmax ≤ ±(0.5% + 0.05 Ω)	5.7 -A	METHOD 301
Insulation Resistance	> 10 ⁴ M Ω	5.6 -A	-
Non-Combustibility	The resistor shall withstand Overload test in accordance with Article UL 492.2.13 without producing a fire hazard.		

* Note: TCR ± 200PPM is also available, consult to factory.

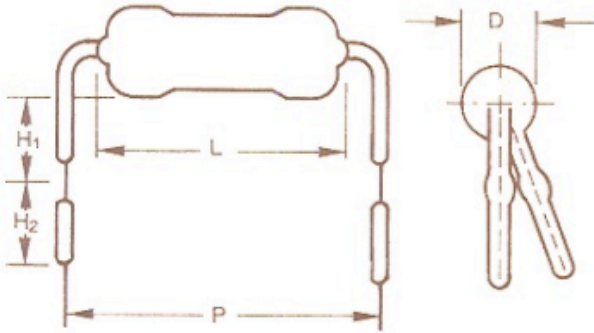


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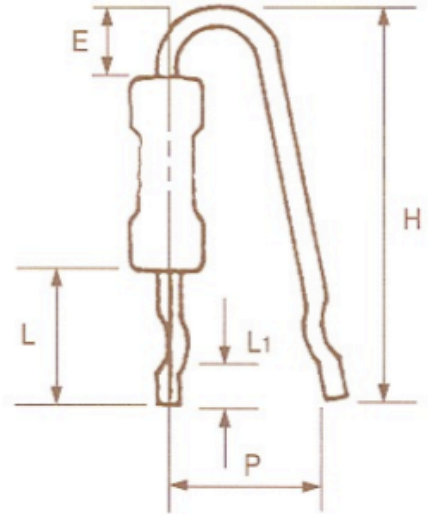
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MF FORM



FK FORM



Unit: mm

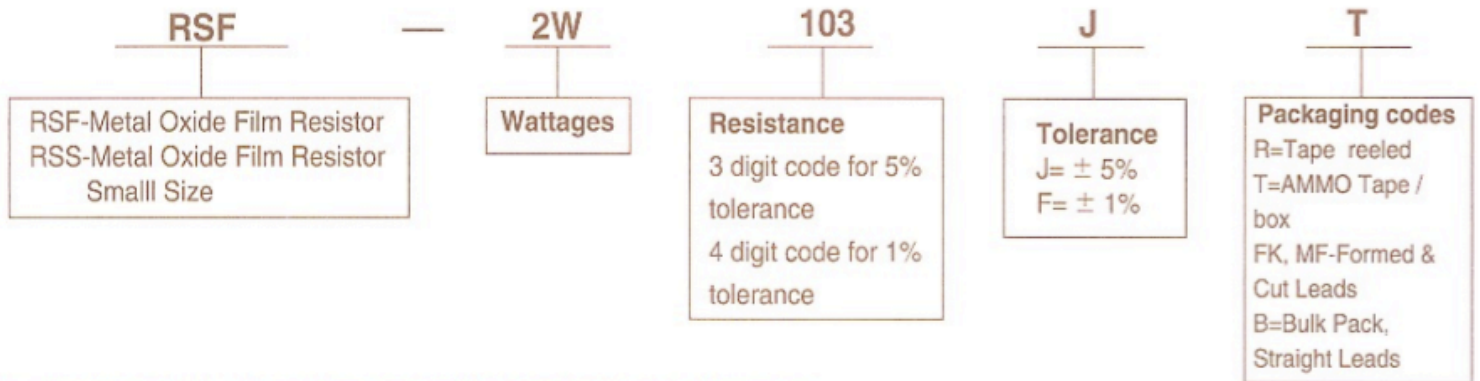
RSS	RSF	D ± 0.5	L ± 1	P	H ₁	H ₂ ± 1
2W	1W	5.5	11	15 ± 1.5	7 ± 1	4.5
3W	2W	5.5	15	20 ± 2	10 ± 2	4.5
5W	3W	8.5	24	30 ± 2	13 ± 2	4.5

Unit: mm

RSS	RSF	D ± 0.5	L ± 1	H ± 3	d ± 0.05	P ± 1	L ₁ ± 1	E
2W	1W	4.5	10	25MAX	0.73	6	4	3.5MAX
3W	2W	5.5	10	30MAX	0.75	6	4	3.5MAX
5W	3W	8.5	10	35MAX	0.75	6	4	3.5MAX

P-ref only

Parts Number system



Note: 52, 63 and 73 MM taping are available for different Wattages