METAL OXIDE FILM RESISTORS

(RSF & RSS SERIES)

RSF series are 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 owing to their uniform quality produced through the most modern products able to use easily for various kinds of electronic devices and instruments.

RSS are small-sized metal oxide film resistors, apply high aluminum content ceramic cores with perfoemance for compact sizes.

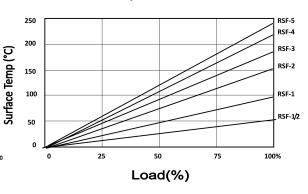
Features

- 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 IPA or other cleaning solvents
- * Improved stability, dissipation, and low TCR available, Consult factory.
- * RSF 1/2-3W apply color code, RSF 4-7W apply graphic marking.

Derating Curve

20 20 40 60 80 100 120 140 160 180 200 235 240 260 280 Ambient Temperature (*C)

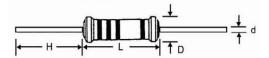
Surface Temp Rise







Dimensions



General Specification

Style		Dimensions				Max.	Max.	Dielectric	Resistance Range
RSS	RSF	L	D	d	H (Min)	Working V.	Overload V.	Withstanding V.	± 5%(J)
1W	1/2W	9.0±0.5	3.2±0.5	0.55±0.05	25	300V	500V	400V	0.1Ω~1M
2W	1W	11.0±1.0	4.5±0.5	0.73±0.05	27	350V	600V	500V	0.1Ω~1M
3W	2W	15.5±1.0	5.0±0.5	0.75±0.05	27	350V	600V	500V	0.1Ω~1M
*5WS		18.0±1.0	6.5±1.0	0.75±0.05	27	500V	800V	500V	10Ω~150ΚΩ
5W	3W	24.5±1.0	8.5±1.0	0.75±0.05	27	700V	900V	500V	0.5Ω~1M
*6WS		24.5±1.0	8.5±1.0	0.75±0.05	27	750V	1000V	500V	0.5Ω~1M
7W	5W	41.0±1.0	8.5±1.0	0.75±0.05	27	750V	1000V	500V	10Ω~150ΚΩ
10W	7W	53.0±1.0	8.5±1.0	0.75±0.05	27	750V	1000V	500V	10Ω~150ΚΩ

Characteristics

Doguiromonto	Performance	Test Method			
Requirements	Performance	JIS-C-5202	MIL-STD202		
Operating Temp. Range	-55°C~+155°C	_	_		
Temp. Coefficient (ppm/°C)	±300	5.2	METHOD 304		
Short Time Overload	△Rmax≦±(1%+0.05Ω)	5.5-A	_		
Resistance to Soldering Heat	△Rmax≦±(1%+0.05Ω)	6.4. 350°C 3 Sec	METHOD210		
Temp. Cycling	△Rmax≦±(1%+0.05Ω)	7.455°C/85°C, 5 cycle	METHOD107		
Moisture Resistance	A Dmay < ±E0/	7.9 95%RH on-off	METHOD 106		
ivioisture resistance		1.000 hr	MIETHOD 100		
Load Life		7.10 70°C RH on-off	METHOD 108		
Load Life	ZKMaX≥13%	1.000 hr			
Dielectric Withstanding	∆Rmax≦±(0.5%+0.05Ω)	5.7 -A	METHOD 301		
Voltage	ZKmax≦±(0.5%+0.0512)	5.7 -A			
Insulation Resistance	10⁴MΩ~	5.6 -A	_		
Non-Combustibility	The resistor shall withstand Overload test in accordance with Article				
	UL 492.2.13 without producing a fire hazard.				

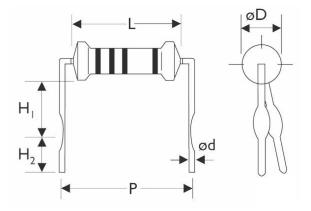
^{*}Note: Lower TCR ± 200 ppm or ± 100ppm also available, consult to factory





^{*}RSS5WS/6WS - the ceramic core is high alumina content which gives excellent heat dissipation and high power

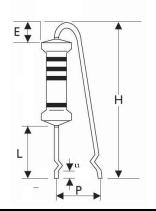
MF FORM



Unit: mm

RSS	RSF	D ± 0.5	L±1	Р	H1	H2 ± 1
2W	1W	4.5	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

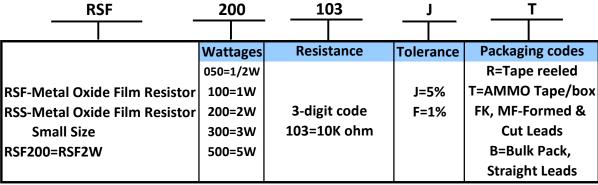
FK FORM



*With/without leads kink or kink at only one lead can be done by customers' request

RSS	RSF	D ± 0.5	L±1	H ± 3	d±0.05	Pref	L1±1	E
2W	1W	4.5	10	25MAX	0.73	8	4	3.5MAX
3W	2W	5.5	10	30MAX	0.75	8	4	3.5MAX

Part Number system



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



