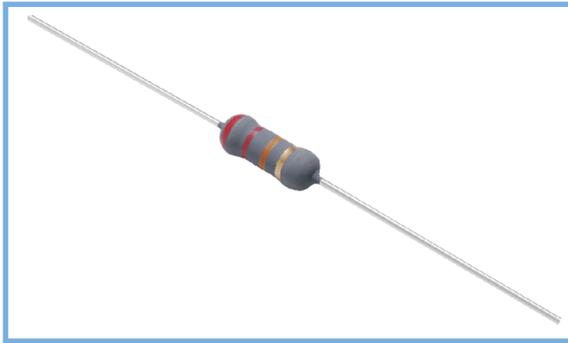


METAL OXIDE FILM RESISTORS, FLAMEPROOF (SMALL TYPE)

不燃性金屬氧化皮膜電阻器(小型化)



Features

1. High power, Small body size.
2. Electrical and mechanical stability and high reliability.
3. Nonflame painting, "Solvent" proof, resistant to heat & humidity.
4. Annual shift is low for the strengthened metal oxide film.
5. Low noise ; can produce high resistance values which wire wound resistors can not reach.

特色

1. 功率大、體積小。
2. 電氣及機械上之性能極安定，具高度信賴性。
3. 不燃性絕緣塗裝，可耐溶劑清洗及高溫。
4. 已氧化過之電阻皮膜經年變化甚少，皮膜強度特強。
5. 低雜音，可製繞線電阻器不能製作之高阻值。

ELECTRICAL AND MECHANICAL PERFORMANCE

電氣及機械特性

特性 Characteristics	規格值 Standards	試驗方法 Test Methods
阻值容許誤差 Resistance Tolerance	$\pm 5\%$ (J) or $\pm 2\%$ (G)	-
溫度係數 Resistance Temp. Coeff.	± 300 ppm / °C	-55°C ~ 155°C
額定負載 Power Rating Load	Surface temp. 275°C Max. 最高表面溫度 275°C, $\Delta R/R \leq \pm 1\%$	Rated voltage for 30 minutes 額定電壓 / 30分鐘
短時間過負載 Short Time Overload	$\pm 2\%$	2.5 times of rated voltage for 5 seconds. 2.5 倍額定電壓 / 5秒
耐電壓 Dielectric Withstanding Voltage	No evidence of mechanical damage or insulation breakdown. 無機械性能損壞及絕緣擊穿現象	Max. Working Voltage for 1 min. 施加最高工作電壓 1 分鐘
絕緣電阻 Insulation Resistance	1,000M Ω	DC100V or 500V megger
端子強度 Terminal Strength	No evidence of mechanical damage. 無機械性能損壞現象	< 1/2W : 1 kg > 1W : 2.5 kg
焊錫性 Solder-ability	Minimum 95% coverage 焊錫面積 $\geq 95\%$	235 \pm 5°C for 2 seconds
浸錫耐熱性 Resistance to Soldering Heat	No evidence of mechanical damage. 無機械性能損壞現象, $\Delta R/R \leq \pm 1\%$	270 \pm 5°C for 10 \pm 1 seconds 350 \pm 10°C for 3.5 \pm 0.5 seconds

ENVIRONMENTAL CHARACTERISTICS

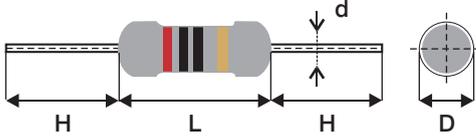
耐環境特性

特性 Characteristics	規格值 Standards	試驗方法 Test Methods
溫度週率 Temp. Cycle	$\Delta R/R \leq \pm 1\%$	-55°C (30 min.) \rightarrow Room Temp.(3 min.) \rightarrow +155°C(30 min.) \rightarrow Room Temp.(3 min.) / (5 cycles)
負載壽命 Load Life	$\Delta R/R \leq \pm 5\%$	Rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours
耐濕壽命 Moisture-proof Load Life	$\Delta R/R \leq \pm 5\%$	Rated power load 90 minutes ON 30 minutes OFF 40°C 95% RH 500 hours
不燃性 Nonflammability	not flamed	16 times of rated wattage for 5 min.

Dimensions

尺寸

Unit : mm



Rated Wattage	D±1	L±1	H±3	d±0.1	Resistance (Ω)	Max. Working Voltage	Max. Overload Voltage
1/2W	2.6±0.5	6.8	28	0.6	0.22~33K	250V	400V
1W	3.5	9	28	0.65	0.22~50K	350V	600V
2W	4.5	11	28	0.8	0.22~50K	350V	600V
3W	5.0	15	28	0.8	0.22~50K	350V	600V
5W	8.5	24	38	0.8	0.22~100K	500V	800V
6W	8.5	32	33	0.8	0.22~150K	500V	800V
7W	8.5	41	38	0.8	0.22~200K	750V	1000V
10W	8.5	53	38	0.8	0.22~200K	800V	1500V

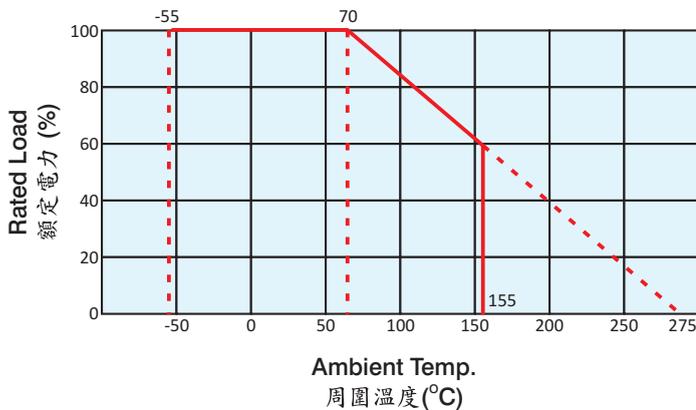
Note: 1. Too low or too high ohmic values can be supplied only case by case.
 2. If high resistance values are required, we suggest using RDN series.
 3. 0.22 ~ 9.1Ω are using alloy film.

Rate Continuous Working Voltage (RCWV) shall be determined $\sqrt{\text{Rated Power} \times \text{Resistance Value}}$ or Max. Working Voltage listed above, whichever less.

Derating Curve

電力輕減曲線

For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.



Surface Temperature Rise

表面溫度上昇曲線



How to order

訂貨方式

It is composed by Type, Rated Wattage, Nominal Resistance, Tolerance and Package. e.g.

RSS 1W 10R J T/B
 a. b. c. d. e.

- a. : Type(種類): Metal Oxide Film Resistors, Flameproof (Small Type) are called "RSS".
- b. : Rated Wattage(額定電力): Shown by "W", such as 1/2W, 1W, 2W, 3W, 5W, 6W, 7W, 10W.
- c. : Nominal Resistance(公稱電阻值) : 10Ω.
- d. : Tolerance(容許誤差): G = ±2% , J = ±5% .
- e. : Package (包裝方式):
 T/R=tape & reel (捲裝); T/B=tape in box(帶裝); Nil= Bulk(散裝).