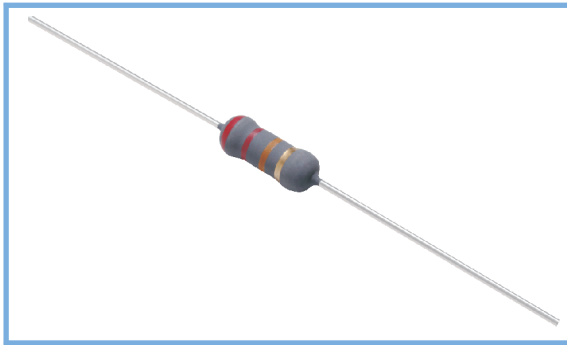


## METAL OXIDE FILM RESISTORS, FLAMEPROOF (SMALL TYPE)

### 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.	$\pm 300$ 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 $\Omega$	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

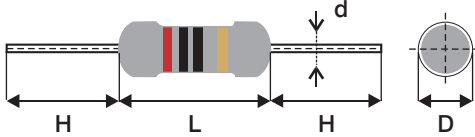
### 耐環境特性

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

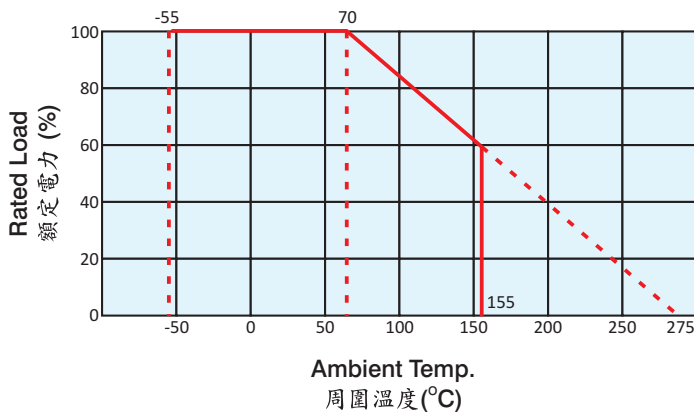
**Note:** 1. Too low or too high ohmic values can be supplied only case by case.  
 2. If high resistance values are required, we suggest using RDN series.  
 3. 0.22 ~ 9.1Ω are using alloy film.

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

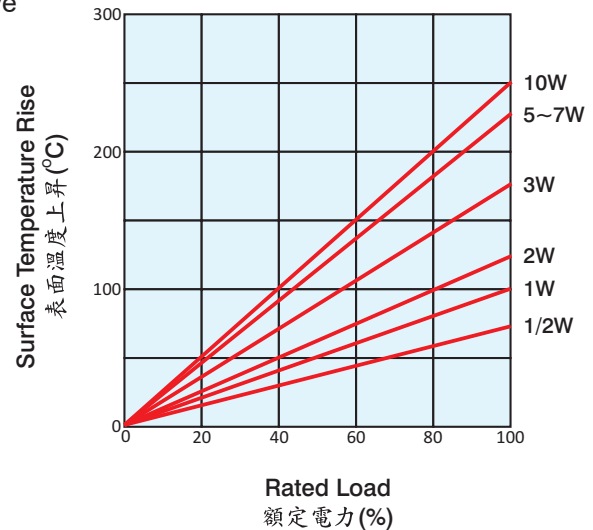
### 電力輕減曲線

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).

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