

## **POWER WIRE WOUND CHIP RESISTORS**

# 電力型繞線封裝電阻器



#### **Features**

- 1. Flameproof UL94V0 molded package, resistant to heat, humidity & insulation.
- 2. Special design for automatic surface mounting.
- 3. Excellent mechanical strength & electrical stability.
- 4. Reducing assembly costs.

#### 特色

- 1. 不燃性樹脂封裝成型,具高耐溫,耐濕及絶緣特性。
- 2. 特殊設計,專供自動表面黏著作業。
- 3. 高安定性及高信賴性。
- 4. 降低裝配費用。

#### **ELECTRICAL AND MECHANICAL PERFORMANCE**

#### 電氣及機械特性

特性 Characteristics	規格値 Standards	試驗方法 Test Methods
阻值容許誤差 Resistance Tolerance	±5%(J) or ±1%(F)	-
溫度係數 Resistance Temp. Coeff.	±200 ppm / °C	-55°C ~ 200°C
額定負載 Power Rating Load	Surface temp. 275°C Max. 最高表面溫度 275°C,△R/R≦±1%	Rated voltage for 30 minutes 額定電壓 / 30分鐘
短時間過負載 Short Time Overload	±1%	5 times of rated wattage for 5 seconds. 5 倍額定功率 / 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	AC 500V for 1 minutes 施加 AC 500V 電壓 1 分鐘
絶緣電阻 Insulation Resistance	10,000ΜΩ	DC 500V megger
焊錫性 Solder-ability	Minimum 95% coverage 焊錫面積 ≧ 95%	235±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,△R/R≦±1%	270±5°C for 10 ±1 seconds

# ENVIRONMENTAL CHARACTERISTICS 耐環境特性

特性 Characteristics	規格値 Standards	試驗方法 Test Methods
溫度週率 Temp. Cycle	△R/R≦±1%	-55°C( 30 min.) → Room Temp.( 3 min.) → +200°C( 30 min.) → Room Temp.( 3 min.) / ( 5 cycles)
負載壽命 Load Life	△R/R≦±2%	Rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours
耐濕壽命 Moisture-proof Load Life	△R/R≦±2%	Rated power load 90 minutes ON 30 minutes OFF 40°C 95% RH 500 hours

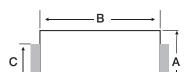
<sup>※</sup> 參考規格 Reference Standards IEC 60115-1 JIS C 5201-1

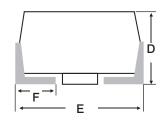


Unit: mm

#### **Dimensions**

#### 尺寸





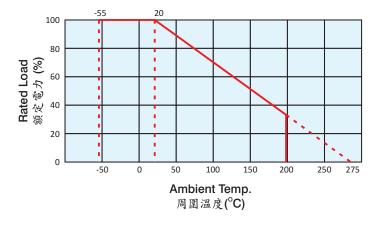
Rated Wattage	A±0.3	B±0.3	C±0.3	D±0.3	E Max.	F±0.3	Resistance Range( $\Omega$ )
2W	4.0	6.7	1.4	3.55	7.9	1.5	0.1~200
3W	5.5	10.5	1.7	5.0	12	2.3	0.1~300
5W	7.3	13.5	1.7	6.8	17	2.5	0.1~680

Note: Too low or too high ohmic values can be supplied only case by case.

### **Derating Curve**

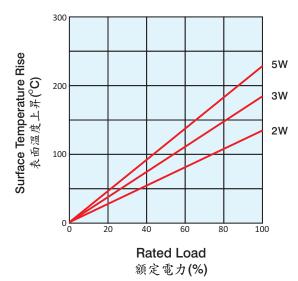
#### 雷力輕減曲線

For resistors operated in ambient temperatures above 20°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 and Tolerance.

 $\frac{\text{SMW}}{\text{a.}} \frac{2\text{W}}{\text{b.}} \frac{10\Omega}{\text{c.}} \frac{\text{J}}{\text{d.}}$ 

a.: Type(種類): Power Wire Wound Chip Resistors are called "SMW".

b.: Rated Wattage(額定電力): Shown by "W", such as 2W, 3W, 5W

c.: Nominal Resistance(公稱電阻值): 10Ω.

d.: Tolerance(容許誤差): F= ±1%, J= ±5%.