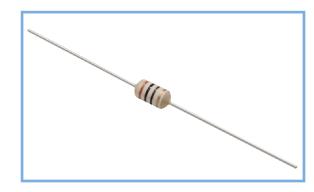
KNP-A series

WIRE WOUND RESISTORS, FLAMEPROOF, ANTI-BURST

防爆型繞線電阻器



Features

- 1. Fail-Safe without flames, explosion and arc when mains voltage 80~270V AC directly applied.
- 2. High Dielectric Withstanding Voltage up to 1KV.
- 3. Anti-Burst construction in a ceramic tube, resistant to humidity and insulation.
- 4. UL1412 approved.

特色

- 1. 主電源直接跨接時,不會產生火花、爆炸及電弧現象。
- 2. 耐電壓能力可達 1KV。
- 3. 防爆型套管包覆,具耐濕及絶緣特性。
- 4. UL1412 認證。

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)	-	
溫度係數 Resistance Temp. Coeff.	< 4500 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	±2%	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 1000V for 1 minutes 施加 AC 1000V 電壓 1 分鐘。	
絕緣電阻 Insulation Resistance	1,000ΜΩ	DC 500V megger	
端子強度 Terminal Strength	No evidence of mechanical damage. 無機械性能損壞現象	1 kg	
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%	$270\pm5^{\circ}$ C for 10 ±1 seconds $350\pm10^{\circ}$ C for 3.5 ±0.5 seconds	

ENVIRONMENTAL CHARACTERISTICS

耐環境特性

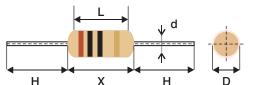
特性 Characteristics	規格値 Standards	試驗方法 Test Methods		
溫度週率 Temp. Cycle	△R/R≦±1%	-55°C(30 min.) → Room Temp.(3 min.) → +200°C(30 min.) → Room Temp.(3 min.) / (5 cycles)		
負載壽命 Load Life	△R/R≦±3%	Rated power load 90 minutes ON 30 minutes OFF 70°C 1000 hours		
耐濕壽命 Moisture-proof Load Life	△R/R≦±3%	Rated power load 90 minutes ON 30 minutes OFF 40°C 95% RH 1000 hours		
不燃性 Nonflammability	not flamed	16 times of rated wattage for 5 min.		

KNP-A series

Dimensions

尺寸

Unit: mm



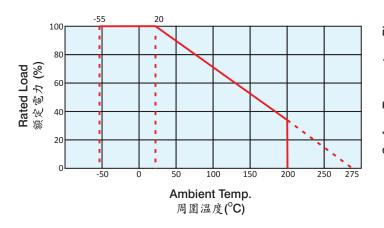
Rated Wattage	D±1	L±1	X Max.	H±3	d±0.1	Resistance Range(Ω)
1WS	4.5	6.5	9	28	0.65	1~47

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

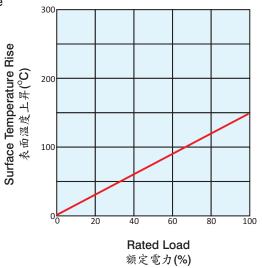
Derating Curve

電力輕減曲線

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, Tolerance, Anti-Burst and Package. e.g.

 $\frac{\text{KNP}}{\text{a.}} \quad \frac{1\text{WS}}{\text{b.}} \quad \frac{10\Omega}{\text{c.}} \quad \frac{\text{J}}{\text{d.}} \quad \frac{\text{A}}{\text{e.}} \quad \frac{\text{H2}}{\text{f.}} \quad \frac{\text{T/B}}{\text{g.}}$

a.: Type(種類): Wire Wound Resistors, Flameproof are called "KNP".

b.: Rated Wattage(額定電力): Shown by "W", such as "1WS".

c.: Nominal Resistance(公稱電阻值): 10Ω.

d.: Tolerance(容許誤差): G= ±2%, J= ±5%.

e.: A: Letter "A" indicates anti-burst.("A"表示防爆)

f.: H2: Letter "H2" indicates special wire. ("H2"表示特殊線材)

g_: Package (包裝方式):

T/B=tape in box(帶裝); Nil=Bulk(散裝).