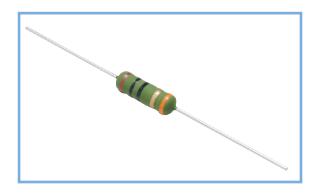
KNP-C series

WIRE WOUND RESISTORS, FLAMEPROOF, ANTI-SURGE

耐雷擊型繞線電阻器



Features

- 1. Excellent anti-surge characteristics 6KV according to IEC 61000-4-5.
- 2. Super heat dissipation; small linear temperature coefficient.
- 3. Flameproof painting, resistant to heat & solvents.

特色

- 1. 依據 IEC 61000-4-5 測試方法, 耐雷擊能力達6KV。
- 2. 散熱性佳,溫度係數小且呈線性變化。
- 3. 不燃性絕緣塗裝,可耐溶劑清洗及高溫。

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 ±2%(G)	-
溫度係數 Resistance Temp. Coeff.	±300 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≦±0.5%	Rated voltage for 30 minutes 額定電壓 / 30分鐘
短時間過負載 Short Time Overload	±2%	10 times of rated wattage for 5 seconds. 10 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	1,000ΜΩ	DC 500V megger
耐雷擊 Surge Voltage Withstanding	△R/R≦±3%	20 pulses(1.2/50us), max. 60s between each pulse.
端子強度 Terminal Strength	No evidence of mechanical damage. 無機械性能損壞現象	2.5 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%	$270 \pm 5^{\circ}$ C for 10 ± 1 seconds $350 \pm 10^{\circ}$ 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-C series

Dimensions 문 寸

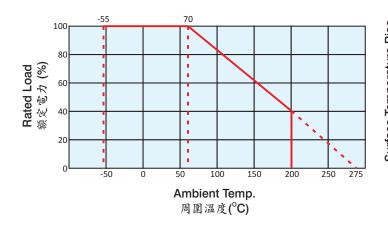
Rated
WattageD±1L±1H±3d±0.1Resistance
Range(Ω)3WL5.515380.80.1~1K

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

Derating Curve

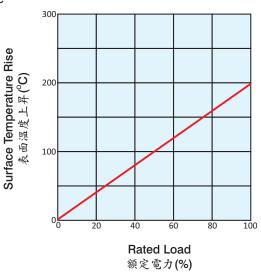
電力輕減曲線

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



Surface Temperature Rise 表面溫度上昇曲線

Unit: mm



How to order

訂貨方式

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

 $\frac{\text{KNP}}{\text{a.}} \quad \frac{3\text{WL}}{\text{b.}} \quad \frac{10\Omega}{\text{c.}} \quad \frac{\text{J}}{\text{d.}} \quad \frac{\text{C}}{\text{e.}} \quad \frac{\text{T/B}}{\text{f.}}$

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

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

c.: Nominal Resistance(公稱電阻值): 10Ω.

d.: Tolerance(容許誤差): G= ±2%, J= ±5%.

e.: C: Letter "C" indicates anti-surge ("C"表示耐雷擊).

f.: Package (包裝方式):

T/R=tape & reel (捲裝); T/B=tape in box(帶裝); Nil=Bulk(散裝).