

WIREWOUND RESISTORS FLAME-PROOF COATING

不燃性塗裝繞線電阻

INTRODUCTION

KNP type is to wind the resistance wire on a alkaliless ceramic basic coated with non-corrosive and high insulating heat proof material.

把電阻線繞在無鹼性耐熱瓷件上，外面加上耐熱、耐濕、無腐蝕之材料保護而成，並於電阻體外面塗裝矽利康 (silicon) 樹脂或不燃性塗料而成，其阻值誤差少。

FEATURES

- Super heat dissipation.
- Small linear temperature coefficient.
- Instant overload capability.
- Low noise figure and without annual shift on resistance value.

特性

- 耐熱性優；電阻溫度係數小，呈直線變化。
- 耐短時間超負載；低雜音，阻值經年無變化。
- 不燃性，重量輕，價格比琺瑯電阻便宜。
- 不似琺瑯電阻高溫燒成，此種電阻線持久而不損壞。

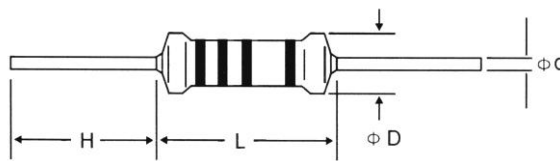


表-1

TYPE		DIMENSIONS(mm)			
KNP	KNPS	D ±0.5	L ±1	H ±3	d ±0.05
1/2W	1W	3.5	9	25	0.6
1W	2W	4.5	12	27	0.8
2W	3W	5.5	16	27	0.8
3W	5W	6.5	18	27	0.8
5W	7W	8.5	25	27	0.8
7W	8W	8.5	32	27	0.8
8W	10W	8.5	40	27	0.8
10W	-	8.5	53	27	0.8

表-2

TYPE		Rated power	Dielectric Withstanding Voltage	KNP Resistance Range (Ω)	NKNP Resistance Range (Ω)
Normal size	KNP-1/2W	0.5W	350V	0.01~47Ω	0.05~6Ω
	NKNP-1/2W	0.5W	350V	0.01~2Ω	0.05~6Ω
	KNP-1W	1W	500V	0.01~1KΩ	0.05~8Ω
	NKNP-1W	1W	500V	0.01~5Ω	0.05~8Ω
	KNP-2W	2W	500V	0.01~1.5KΩ	0.05~10Ω
	NKNP-2W	2W	500V	0.01~10Ω	0.05~10Ω
	KNP-3W	3W	600V	0.01~2KΩ	0.1~50Ω
	NKNP-3W	3W	600V	0.01~15Ω	0.1~50Ω
Small size	KNP-1WS	1W	350V	0.1~200Ω	0.05~6Ω
	NKNP-1WS	1W	350V	0.1~2Ω	0.05~6Ω
	KNP-2WS	2W	500V	0.1~1KΩ	0.05~8Ω
	NKNP-2WS	2W	500V	0.1~5Ω	0.05~8Ω
	KNP-3WS	3W	500V	0.1~1.5KΩ	0.05~10Ω
	NKNP-3WS	3W	500V	0.1~10Ω	0.05~10Ω
	KNP-5WS	5W	600V	0.1~2KΩ	0.1~50Ω
NKNP-5WS	5W	600V	0.1~15Ω	0.1~50Ω	

ELECTRICAL PERFORMANCE

TEST ITEMS	CONDITION	SPEC	Test Method (JIS C 5202)
Resistance Temp Coeff.	-30°C~200°C	±300 ppm/°C	5.2
Short Time Over Load	5 times of rated wattage for 5 sec.	±2%	5.5
Rate Load	Rate watt 30 min.	±1%	5.4
Voltage Durability	500v AC 1 min.	not changed	-
Insulation Resistance	500v megger	500MΩ	5.6
Temp Cycle	-30°C~85°C 5 cycles	±1%	-
Load Life	70°C on-off cycle 1000hrs	±5%	7.10
Moisture-proof Load Life	40°C 95% PH on-off cycle 500 hrs.	±3%	7.9
Incombustibility	6 times of rated wattage for 5 min.	not flamed	7.13

※ Non-inductive wirewound resistors can be supplied only case by case.

圖-1

圖-2

