

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。

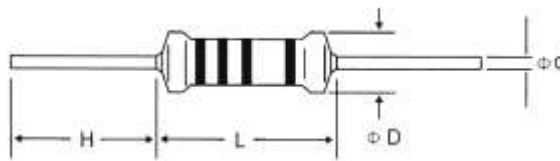


表-1

TYPE			DIMENSIONS(mm)		
KNP	KNPS	D ±0.5	L ±1	H (MIN)	d
1/2W	1W	3.0	8.5	27	0.56±0.10
1W	2W	4.0	11	27	0.68 ±0.10
2W	3W	4.5	15	27	0.75 ±0.10
3W	5W	5.5	17	27	0.75 ±0.10
5W	7W	8.0	25	27	0.75 ±0.10
7W	8W	8.0	32	27	0.75 ±0.10
10W	-	8.0	53	27	0.75 ±0.10

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	0.01~47Ω	0.05~6Ω
	KNP-1W	1W	500V	0.01~150Ω	0.05~8Ω
	NKNP-1W	1W	500V	0.01~150Ω	0.05~8Ω
	KNP-2W	2W	500V	0.01~200Ω	0.05~10Ω
	NKNP-2W	2W	500V	0.01~200Ω	0.05~10Ω
	KNP-3W	3W	500V	0.01~1KΩ	0.1~50Ω
	NKNP-3W	3W	500V	0.01~1KΩ	0.1~50Ω
Small size	KNP-1WS	1W	350V	0.1~1KΩ	0.05~6Ω
	NKNP-1WS	1W	350V	0.1~1KΩ	0.05~6Ω
	KNP-2WS	2W	500V	0.1~1KΩ	0.05~8Ω
	NKNP-2WS	2W	500V	0.1~1KΩ	0.05~8Ω
	KNP-3WS	3W	500V	0.1~2KΩ	0.05~10Ω
	NKNP-3WS	3W	500V	0.1~2KΩ	0.05~10Ω
	KNP-5WS	5W	500V	0.1~3KΩ	0.1~50Ω
	NKNP-5WS	5W	500V	0.1~3KΩ	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

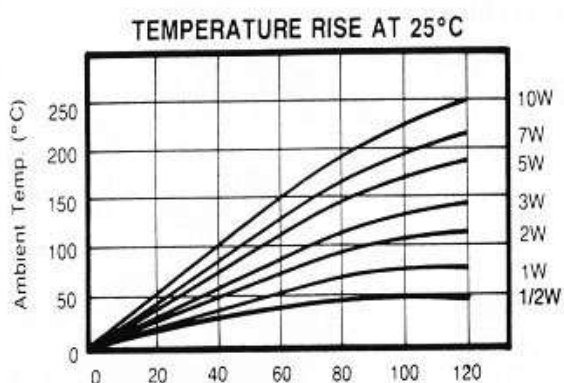


圖-2

