



KNP (Standard type) and NKNP (Non-inductive type up to 27 max.)

LEADFREE
RoHS Compliant

Flame-proof Type

INTRODUCTION

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

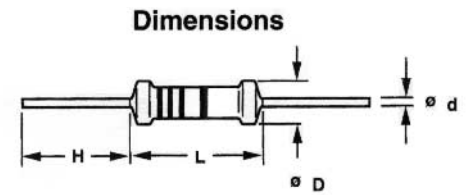
1. Super heat dissipation
2. Small linear temperature coefficient.
3. Instant overload capability.
4. Low noise figure and without annual shift on resistance value.

FEATURES

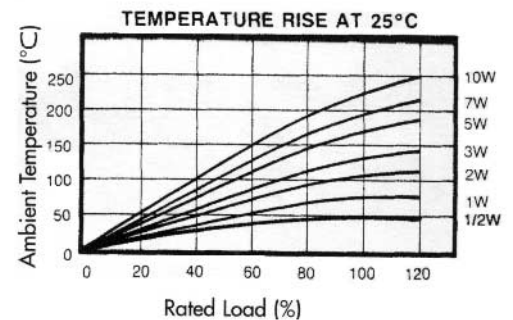
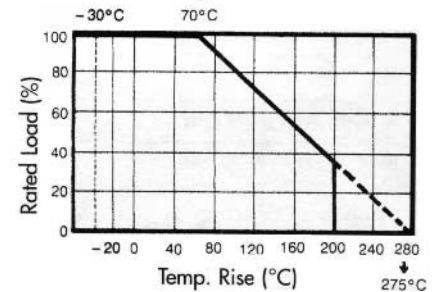
- The MEGASTAR-OHM resistor is fabricated using a suitable fiberglass or ceramic core with the resistance wire securely crimped to the terminals.
- Comparatively smaller in size than other resistors.
- Electrical and mechanical stability and high reliability.
- Tolerance of 0.1%, 0.5%, 1%, 5%, 10% are standard.
- TC < 5ppm/°C, 10ppm, 25ppm, 50ppm, (Decade Resistor)
- Other OHMIC values available upon request.

General Specifications

Type	Rated Watts	Dimensions				Resistance Range ()
		D±0.5mm	L±1.5mm	H (MIN)	d±0.05	
KNP-1/2	1/2W	3.5	9	27	0.60	0.01-47
KNP-1S	1W mini	3.5	9	27	0.60	0.01-150
KNP-1	1W	4.0	11	27	*0.8	0.01-150
KNP-2S	2W mini	4.0	11	27	0.8	0.01-200
KNP-2	2W	5.5	15	27	0.8	0.01-200
KNP-3	3W	5.5	15	27	0.8	0.01-400
KNP-5	5W	6.5	18	27	0.8	0.01-1K
KNP-7	7W	8.5	25	27	0.8	0.1-1K
KNP-8	8W	8.5	40	27	0.8	0.1-2K
KNP-10	10W	8.5	53	27	0.8	0.1-2K



Derating Curve



Characteristics	Condition	Spec.
Resistance Temp. coefficient	-30°C ~ 200°C	±300 ppm/°C
Short-time Overload	5 times of rated wattage for 5 seconds	±2%
Rate Load	Rate watt 30 min.	±1%
Voltage Durability	500V AC 1 min.	not changed
Insulation Resistance	500 megger	500M
Temp. Cycle	-30°C ~ 85°C 5 cycles	±1%
Load Life	70°C on-off cycle 1,000 hrs.	±5%
Moisture-proof Load Life	40°C 95% RH on-off cycle 500 hrs.	±3%
Incombustibility	6 times of rated wattage for 5 min.	not flamed

Part Numbering system

KNP

1

5%

2K2

TR

Type
KNP NKNP

Rated Power
1/2W ↓ 10W

Resistance tolerance
±10%
±5%
±1%
±0.5%
±0.1%

Nominal Resistance		
Code	Description	
R01	0.01	OHMs
2R2	2.2	OHMs
22R	22	OHMs
2K2	2.2x10 ³	OHMs

Packaging	
Code	Description
B	Bulk
TR	Tape & Reel