

WIREWOUND RESISTORS



KNP, NKNP

KNP (Standard Type) and NKNP (Non-inductive type up to 27Ω)

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.

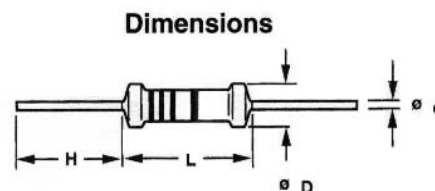
1. Super heat dissipation.
2. Small linear temperature coefficient.
3. Instant overload capability.
4. Low noise figure and without annual shift on resistance value.

Features

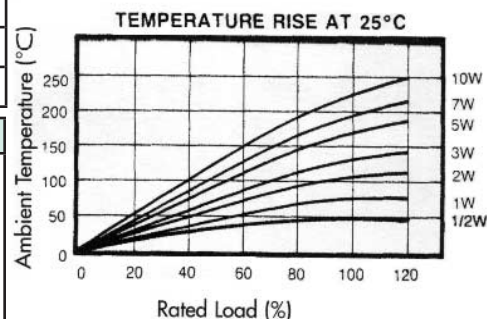
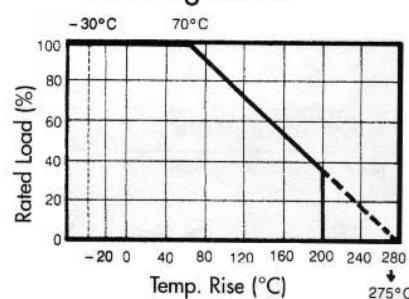
- The MEGASTAR-OHM resistor is fabricated using a suitable fiberglass or ceramic core with the resistance wire securely crimped to the terminals.
- Comparatively smaller in size than other resistors.
- Electrical and mechanical stability and high reliability.
- Tolerance of 0.1%, 0.5%, 1%, 5%, 10% are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

General Specification

Type	Rated Watts	Dimensions				Resistance Range(Ω)
		D±0.5mm	L±1.5mm	H (MIN)	d±0.05	
KNP1/4	1/4W	2.3	6.5	25	0.55	0.1 ~ 4K7Ω
KNP1/2S	1/2W mini	2.3	6.5	25	0.55	0.1 ~ 4K7Ω
KNP1/2	1/2W	3.5	9	27	0.60	0.01 ~ 4K7Ω
KNP1S	1W mini	3.5	9	27	0.60	0.01 ~ 4K7Ω
KNP1	1W	4.0	11	27	0.75	0.01 ~ 4K7Ω
KNP2S	2W mini	4.0	11	27	0.75	0.01 ~ 4K7Ω
KNP2	2W	5.5	15	27	0.75	0.01 ~ 4K7Ω
KNP3XS	3W extra mini	4.0	11.5	27	0.75	0.01 ~ 4K7Ω
KNP3S	3W	5.0	15	27	0.75	0.01 ~ 4K7Ω
KNP3	3W	5.5	17	27	0.75	0.01 ~ 4K7Ω
KNP5	5W	6.5	18	27	0.75	0.01 ~ 10KΩ
KNP7S	7W mini	8.5	25	27	0.75	0.01 ~ 10KΩ
KNP7	7W	8.5	32	27	0.75	0.1 ~ 10KΩ
KNP8S	8W mini	8.5	32	27	0.75	0.1 ~ 10KΩ
KNP8	8W	8.5	42	27	0.75	0.1 ~ 10KΩ
KNP10S	10W mini	8.5	42	27	0.75	0.1 ~ 10KΩ
KNP10	10W	8.5	53	27	0.75	0.1 ~ 10KΩ



Derating Curve



Characteristics	Conditions	Spec.
Resistance Temp. coefficient	-55°C ~ 155°C	±300ppm/°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	500MΩ
Temp. Cycle	-55°C ~ 150°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	16 times of rated wattage for 5 min.	not flamed

PART NUMBERING SYSTEM

KNP	1	5%	2K2	TR
Type	Size	Type	Nominal Resistance	Packaging
KNP NKNP	Code Wattage (Size)	±0.1% ±0.5% 1% 5% 10%	R01 0.01 Ω 2R2 2.2 Ω 22R 22 Ω 2K2 2.2 x 10 ³ Ω	B Bulk TR Tape & Reel
	1/4 1/4W 1/2S 1/2W mini ↓ ↓ 10 10W			