

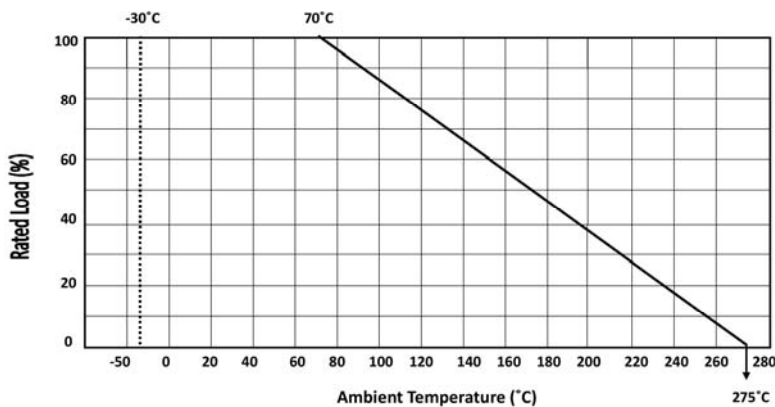
WIREWOUND RESISTORS

FLAME-PROOF COATING KNP(RW)TYPE

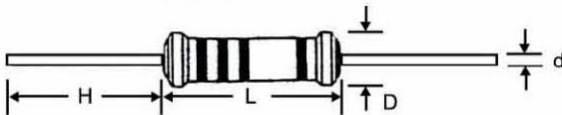
KNP(RW) type is to wind the resistance wire on a alkaliless ceramic core, coated with non-corrosive and high in-sulating heat proof material.

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

Derating Curve



Dimensions



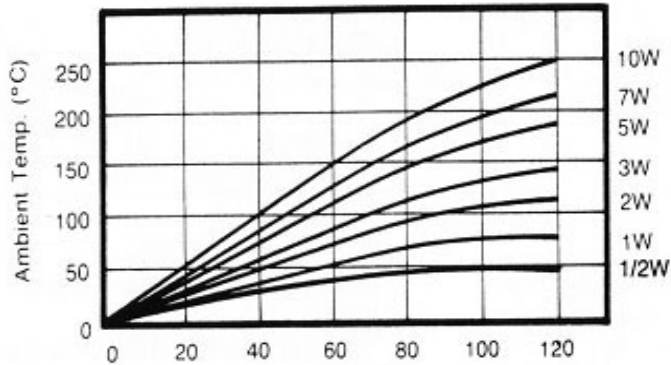
Type		Dimensions (mm)				Resistance Range (Ω)
KNPS	KNP	$D \pm 0.5\text{mm}$	$L \pm 1.5\text{mm}$	H (MIN)	$d \pm 0.05\text{mm}$	
1/2W	1/4W	2.3	6.5	25	0.55	0.1~47 Ω
KNPSS1W		2.3	6.5	25	0.55	0.1~47 Ω
1W	1/2W	3.5	9	27	0.60	0.1~47 Ω
2W	1W	4	11	27	0.75	0.1~150 Ω
KNPSS3W		4	11	27	0.75	0.1~150 Ω
3W	2W	5.5	15	27	0.75	0.1~200 Ω
5W	3W	6.5	18	27	0.75	0.1~400 Ω
7W	5W	8.5	25	27	0.75	0.1~1K
8W	7W	8.5	32	27	0.75	0.1~1K
10W	8W	8.5	42	27	0.75	0.1~2K
	10W	8.5	53	27	0.75	0.1~4K7

Note: Resistance up to 27 Ω maximum for Non-inductive type

Lower or Higher resistance values other than the list are also available



Surface Temp Rise



Rated load

Test Items	Condition	Spec.
Resistance Temp. Coeff	- 55°C~+155°C	*±300 ppm/°C Standard
Short Time Over Load	10 times of rated wattage for 5 sec.	±2%
Rated Load	Rated watt 30 min.	
Voltage Durability	500V AC 1min.	not changed
Insulation Resistance	500V megger	500MΩ
Temp. Cycle	- 55°C~+150°C for 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

Parts Number System

KNP	—	2W	101	J	B	E
KNP- Wire Wound Resistor with Flameproof Coating Axial Type		Wattages	Resistance	Tolerance	Packing Code	T.C.R
KNPS- Small Size Wire wound Resistor			3 Digit code for 5% tolerance	J = ±5% F = ±1%	R=Tape/Reeled T=Ammo Tape/Box	K= 100 ppm C= 50 ppm
KNPSS-Ultra Miniature size W/W resistor			4 Digit code for 1% tolerance	D = ±0.5% B = ±0.1%	B=Bulk Pack	E= 25 ppm
NKNP- Non-inductive Wire wound Res						

Note: 52, 63 and 73 MM tapping are available for different Wattages

* lower TCR ± 25, 50, 100ppm available upon request.

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