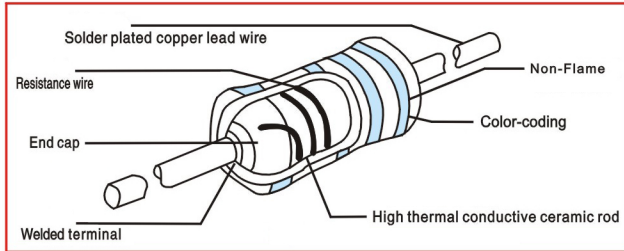


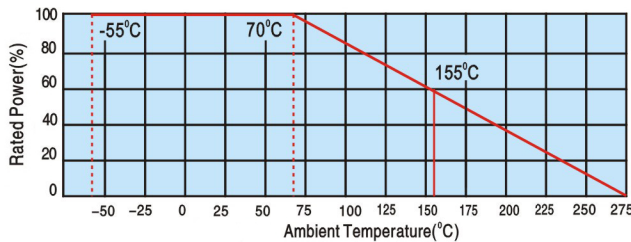
### INTRODUCTION

KNP, Wire wound resistor, is with the features of superior heat and pulse resistance as well as high reliability. It is suitable for high-power circuits of electronic devices.

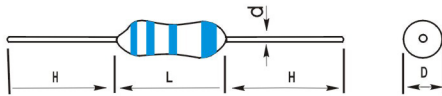
### CONSTRUCTION



### DERATING CURVE



### STYLE



### DIMENSIONS

TYPE	Dimensions (mm)				Power Rating	Resistance Range	
	L	D	d	H			
Normal size	KNP1/2W	9.0±1.0	3.2±0.5	0.50±0.02	25±3	0.5W	0.01 Ω~600 Ω
	KNP1W	11.0±1.0	4.5±0.5	0.65±0.02	25±3	1W	0.01 Ω~6K
	KNP2W	15.0±1.0	5.0±1.0	0.70±0.02	23±3	2W	0.01 Ω~12K
	KNP3W	17.0±1.0	6.0±1.0	0.70±0.02	25±3	3W	0.01 Ω~15K
	KNP4W	24.0±1.0	7.5±1.0	0.70±0.02	25±3	4W	0.01 Ω~15K
	KNP5W	24.0±1.0	7.5±1.0	0.70±0.02	25±3	5W	0.01 Ω~20K
	KNP6W	24.0±1.0	7.5±1.0	0.70±0.02	25±3	6W	0.01 Ω~20K
	KNP8W	32.0±1.0	8.5±1.0	0.70±0.02	25±3	8W	0.01 Ω~25K
	KNP10W	32.0±1.0	8.5±1.0	0.70±0.02	25±3	10W	0.01 Ω~30K
	KNP12W	37.0±1.0	8.5±1.0	0.70±0.02	25±3	12W	0.01 Ω~33K
	KNP15W	42.0±1.0	8.5±1.0	0.70±0.02	25±3	15W	0.01 Ω~36K
	KNP20W	52.0±1.0	8.5±1.0	0.70±0.02	25±3	20W	0.01 Ω~47K
KNP30W	77.0±1.0	8.5±1.0	0.70±0.02	25±3	30W	0.01 Ω~50K	
Small size	KNP1WS	9.0±1.0	3.2±0.5	0.50±0.02	25±3	1W	0.01 Ω~6K
	KNP2WS	11.0±1.0	4.5±0.5	0.65±0.02	25±3	2W	0.01 Ω~12K
	KNP3WS	15.0±1.0	5.0±1.0	0.70±0.02	23±3	3W	0.01 Ω~15K
	KNP5WS	17.0±1.0	6.0±1.0	0.70±0.02	25±3	5W	0.01 Ω~15K

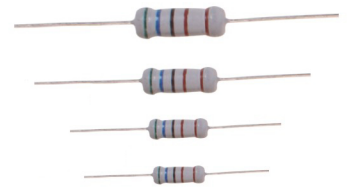
### HOW TO ORDER

KNP	1/4W	T52	J	10K
Type	Power Rating	Form/ Packaging	Resistance Tolerance	Nominal Resistance
	1/2W 5W 1WS 1W 7W 2WS 2W 8W 3WS 3W 10W 5WS	S Bulk (Straight) M Bulk, M-Form series (Horizontal Forming) U Buld, U-Form series (Vertical Forming) Txx Boxed (52.63.73.83mm width taping)	J ±5% K ±10% M ±20% M ±20% G ±2% F ±1%	3-Digit: E-24, 12 Series e.g. OR12 = 0.12 Ω 120R = 120 Ω 1K2 = 1.2K Ω

### FEATURES

- Superior heat resistance
- Superior pulse resistance
- High reliability
- Can Offering Non-Inductive

### CHARACTERISTICS



Test Items	Specified Value
Temp. coefficient of resistance	± 300 PPM/°C
Short time overload	± (2%+0.05Ω)
Dielectric withstanding voltage	No evidence of damage
Insulation resistance	Over 10 <sup>10</sup> MΩ
Terminal strength	No evidence of damage
Moisture load life	± (5%+0.05Ω)
Load life at 70°C	± (5%+0.05Ω)
Temperature cycling	± (2%+0.05Ω)
Resistance to soldering heat	± (2%+0.05Ω)
Resistance to soldering heat	Over 95%
Resistance to solvent	No evidence of damage
Flame proof	No evidence of damage

### SURFACE TEMP. RISE

