

Wire-Wound Fixed Resistors

Performance Specification

Temperature Coefficient	<20Ω: ±400PPM/°C; ≥20Ω: ±300PPM/°C
Short Time Overload	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse Overload	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Terminal Strength	No evidence of mechanical damage.
Resistance to Soldering Heat	±(1.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Solderability	Min. 95% coverage.
Temperature Cycling	±(2.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life in Humidity	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Load Life	±(5.0% + 0.05Ω)Max, with no evidence of mechanical damage.
Non-Flame	No evidence of flaming or arcing.
Surge Immunity (IEC 61000-4-5)	±(5.0% + 0.05Ω)Max


Ordering Procedure: Ex.: KNP 1W, +/-5%, 100Ω, T/B-1000

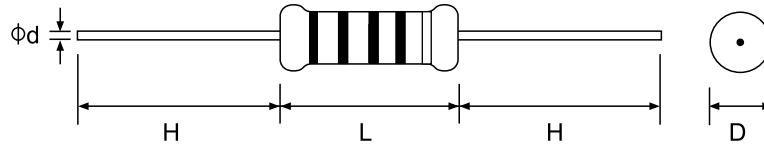
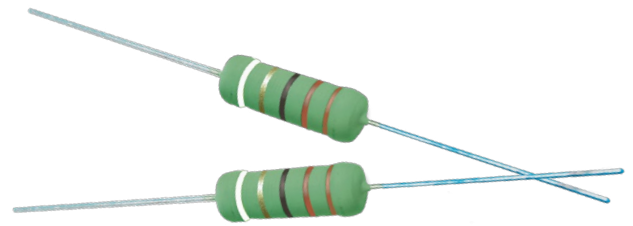
K	N	P	0	1	W	J	0	1	0	1	A	1	0				
Type: KNP = KNP KNH = KNH KNS = KNS			Wattage: Normal W2 = 1/2W 1W = 1W 9W = 9W AW = 10W A0 = 100W Small 1S = 1W-S 9S = 9W-S AS = 10W-S Extra Small 1U = 1W-SS 2U = 2W-SS 3U = 3W-SS 4U = 4W-SS AU = 10W-SS			Resistance Value: <ul style="list-style-type: none"> • E-24 series: 1st digit is "0" 2nd & 3rd digits are significant figures of the resistance 4th indicates the number of zeros "J" ~ 0.1, "K" ~ 0.01 Ex. 4.7Ω ~ 47J, 4.7KΩ ~ 472 • E-96 series: 1st to 3rd digits are significant figures of the resistance and the 4th digit indicates the number of zeros. Ex.: 1.33KΩ = 1331 			Packing Type: A = Tape/Box T = Tape/Reel B = Bulk/Box			Packing Qty: 1 = 1,000 pcs. 2 = 2,000 pcs. A = 500 pcs. B = 2,500 pcs. (for T/R) 0 = Bulk/Box			Additional Information: (for KNP,KNS,KNH,KNHA Type B/B pack only) 0 = NIL (for KNP Type Only) 0 = PT-52mm 8 = PT-58mm 9 = PT-64mm C = PT-73mm		
Feature: 0 = Standard U = UL Approved A = Anti-Surge S = Special / Customized (For KNP Type only) I = Non-Inductive			Tolerance: F = ±1% G = ±2% J = ±5% K = ±10%														



Fusible Wire-Wound Fixed Resistors

Features

- Color coating is "Green"
- Non-inductive type available
- Excellent flame resistance
- Too low or too high ohmic value can be supplied on a case to case basis
- Special Fusing Wire-Wound Resistors can be supplied on a case to case basis
- Special UL approved items available (UL1412) 



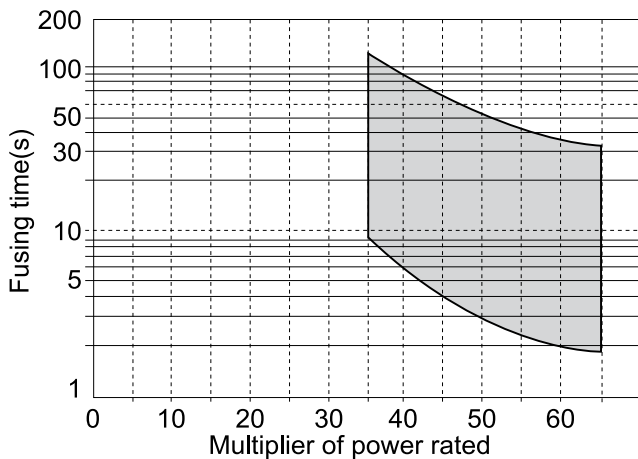
Standard : 2% ,5% ,10% -- E - 24 series
1% -- E - 96 series

Part No.	Style	Power Rating at 70°C	Dimension (mm)					Standard Resistance Range
			D(Max)	L(Max)	H	d±0.05	PT	
Normal Size								
KNPU1W	KNPU100	1W	5.0	12.0	28	0.70	52	0.47Ω ~ 240Ω
KNPU2W	KNPU200	2W	5.5	16.0	28	0.70	64	0.47Ω ~ 240Ω
KNPU3W	KNPU300	3W	6.5	17.5	28	0.75	64	0.47Ω ~ 240Ω
KNPU5W	KNPU500	5W	8.0	20.0	38	0.75	B/B	0.47Ω ~ 240Ω
KNPU7W	KNPU700	7W	8.5	25.0	38	0.75	B/B	0.47Ω ~ 47Ω

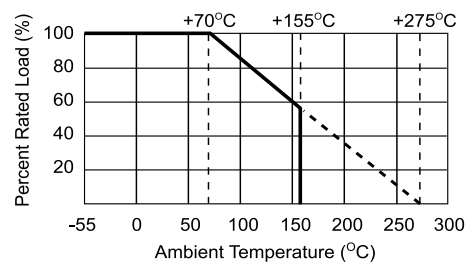
Part No.	Style	Power Rating at 70°C	Dimension (mm)					Resistance Range
			D(Max)	L(Max)	H±3	d±0.05	PT	
Small Size								
KNPU1U	KNPU1W-SS	1W	3.0	8.5	28.0	0.54	52	10Ω
KNPU1S	KNPU1W-S	1W	4.3	9.0	28.0	0.60	52	0.47Ω ~ 240Ω
KNPU1S	KNPU1W-S	1W	4.3	10.0	28.0	0.75	52	0.47Ω ~ 240Ω
KNPU2S	KNPU2W-S	2W	5.0	12.0	28.0	0.70	52	0.47Ω ~ 240Ω
KNPU3S	KNPU3W-S	3W	5.5	16.0	28.0	0.70	64	0.47Ω ~ 240Ω

Note: 1. Surge spec available on a case to case basis.
2. Lead length (H) available from 25 ~ 40 mm.

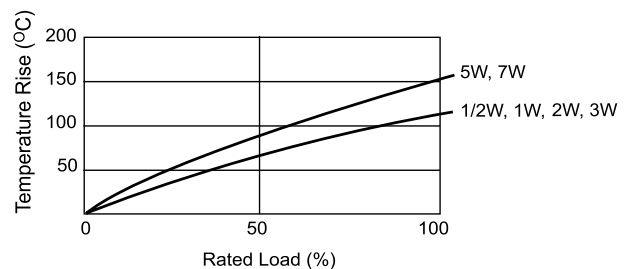
Fusing Graph For UL Approved



Derating Curve



Heat Rise Chart



Note: For KNPU Series Dielectric Withstanding Voltage : 1,000VAC.