

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
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Type:
 KNP = KNP
 KNH = KNH
 KNS = KNS

Feature:
 0 = Standard
 U = UL Approved
 A = Anti-Surge
 S = Special / Customized (For KNP Type only)
 I = Non-Inductive

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:

- 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

Tolerance:
 F = ±1%
 G = ±2%
 J = ±5%
 K = ±10%

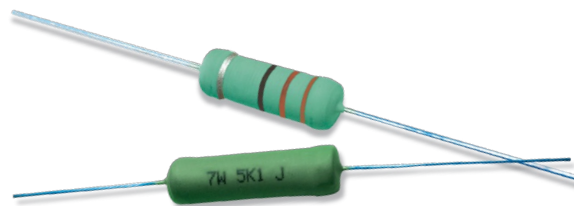
Additional Information:
 (for KNP,KNS,KNH,KNHA Type B/B pack only)
 0 = NIL

(for KNP Type Only)
 0 = PT-52mm
 8 = PT-58mm
 9 = PT-64mm
 C = PT-73mm

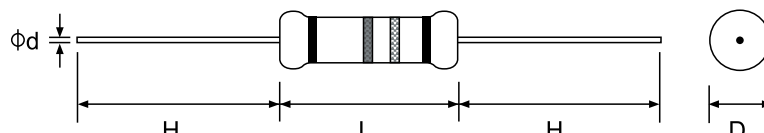
Wire-Wound Fixed Resistors

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



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



Part No.	Style	Power Rating at 70°C	Dimension (mm)					Low Resistance Range	Standard Resistance Range	High Resistance Range
			D±1	L±1	H±3	d±0.05	PT			
Normal Size										
KNP0W2	KNP 50	1/2W (0.50W)	3.5	10.0	28	0.54	52	0.06Ω~9.9Ω	10Ω~39Ω	40Ω~560Ω
KNP01W	KNP 100	1W	5.0	12.0	25	0.70	52	0.10Ω~9.9Ω	10Ω~50Ω	51Ω~1KΩ
KNP02W	KNP 200	2W	5.5	16.0	28	0.70	64	0.15Ω~9.9Ω	10Ω~120Ω	121Ω~2KΩ
KNP03W	KNP 300	3W	6.5	17.5	28	0.75	64	0.25Ω~9.9Ω	10Ω~200Ω	201Ω~3KΩ
KNP05W	KNP 500	5W	8.5	25	38	0.75	B/B	0.50Ω~9.9Ω	10Ω~470Ω	471Ω~5KΩ
KNP07W	KNP 700	7W	8.5	30	38	0.75	B/B	0.65Ω~9.9Ω	10Ω~470Ω	471Ω~6KΩ
KNP08W	KNP 800	8W	8.5	40	38	0.75	B/B	1.0Ω~9.9Ω	10Ω~1.5KΩ	1.6KΩ~10KΩ
KNP09W	KNP 900	9W	8.5	53	38	0.75	B/B	1.0Ω~9.9Ω	10Ω~1.5KΩ	1.6KΩ~15KΩ
Small Size										
KNP01S	KNP 100-S	1W	3.5	10.0	28	0.54	52	0.06Ω~9.9Ω	10Ω~39Ω	40Ω~560Ω
KNP02S	KNP 200-S	2W	5.0	12.0	25	0.70	52	0.10Ω~9.9Ω	10Ω~50Ω	51Ω~1KΩ
KNP03S	KNP 300-S	3W	5.5	16.0	28	0.70	64	0.15Ω~9.9Ω	10Ω~120Ω	121Ω~2KΩ
KNP05S	KNP 500-S	5W	6.5	17.5	28	0.75	64	0.25Ω~9.9Ω	10Ω~200Ω	201Ω~3KΩ
KNP07S	KNP 700-S	7W	8.5	25	38	0.75	B/B	0.50Ω~9.9Ω	10Ω~470Ω	471Ω~5KΩ
KNP08S	KNP 800-S	8W	8.5	30	38	0.75	B/B	0.65Ω~9.9Ω	10Ω~470Ω	471Ω~6KΩ
KNP09S	KNP 900-S	9W	8.5	40	38	0.75	B/B	1.0Ω~9.9Ω	10Ω~1.5KΩ	1.6KΩ~10KΩ
KNP0AS	KNP 1000-S	10W	8.5	53	38	0.75	B/B	1.0Ω~9.9Ω	10Ω~1.5KΩ	1.6KΩ~15KΩ
Extra Size										
KNP01U	KNP 100-SS	1W	3.0	9.0	28	0.54	52	0.10Ω~9.9Ω	10Ω~39Ω	40Ω~180Ω
KNP02U	KNP 200-SS	2W	3.5	10.0	28	0.54	52	0.10Ω~9.9Ω	10Ω~39Ω	40Ω~220Ω
KNP03U	KNP 300-SS	3W	5.5	13.5	28	0.70	64	0.20Ω~9.9Ω	10Ω~50Ω	51Ω~620Ω
KNP04U	KNP 400-SS	4W	5.5	16.0	28	0.70	64	0.20Ω~9.9Ω	10Ω~120Ω	121Ω~750Ω
KNP0AU	KNP 1000-SS	10W	8.5	40	38	0.75	B/B	1.0Ω~9.9Ω	10Ω~1.5KΩ	1.6KΩ~5KΩ

Note: For KNP Series Max. Working Voltage: 500V
 Max. Overload Voltage: 1,000V
 Dielectric Withstanding Voltage : Dimension ≤ 3.5 x 10 : 350V
 > 3.5 x 10 : 500V

