



EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

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



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

K	N	P	0	1	W	J	0	1	0	1	A	1	8							
Resistor Type: KNP = KNP Type KNS = KNS Type KNH = KNH Type				Wattage: Normal size: W2=1/2W 1W=1W ∴ ∴ 9W=9W AW=10W ∴ ∴ A0=100W Small size: 1S=1W-S ∴ ∴ 9S=9W-S AS=10W-S			Resistance Value: - E-24 series: the 1st digit is "0", the 2nd & 3rd digits are for the significant figures of the resistance and the 4th indicate the number of zeros: "J" ~ 0.1, "K" ~ 0.01 Ex. 4.7Ω ~ 47J, 4.7KΩ ~ 472 - E-96 series: The 1st to 3rd digits are significant figures of resistance and the fourth one denotes number of zeros. Ex. 1.33 KΩ = 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 = for Bulk/Box packing							
Special Feature: 0 = Standard Product I = Non-Inductive Product			Tolerance: F = ±1% G = ±2% J = ±5% K = ±10%																	
*** For KNS & KNH Type-available is B/B packing Only.																				
*** 00 = for power rating over 100W. Please indicate the power rating at the last 3 digits of the part no. (B/B Only)																				
* More explanation on part no, please see details on pages 79-80.																				

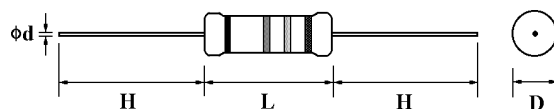
Performance Specifications

Temperature coefficient	<20Ω: ±400PPM/°C; ≥20Ω: ±300PPM/°C
Short-time overload	ΔR/R ≤ ±(2.0% + 0.05Ω), with no evidence of mechanical damage.
Terminal strength	No evidence of mechanical damage.
Resistance to soldering heat	ΔR/R ≤ ±(1.0% + 0.05Ω), with no evidence of mechanical damage.
Solderability	Min. 95% coverage
Load life in humidity	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Load life	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Dielectric withstanding voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.
Pulse overload	ΔR/R ≤ ±(5.0% + 0.05Ω), with no evidence of mechanical damage.
Temperature cycling	ΔR/R ≤ ±(2.0% + 0.05Ω), with no evidence of mechanical damage.
Non-Flame	No evidence of flaming or arcing.

* More details, please see pages 77-78.

WIRE-WOUND FIXED RESISTORS

(1) KNP Type



Normal Size

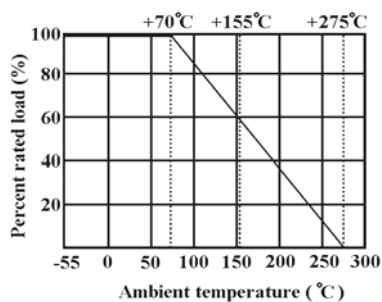
Part No.	Style	Power Rating at 70°C	Dimension (mm)				Resistance Range
			D ± 1	L ± 1	H ± 3	d ± 0.05	
KNP0W2	KNP-50	1/2W (0.5W)	3.5	10	28	0.54	0.1Ω ~ 39Ω
KNP01W	KNP-100	1W	5	12	28	0.70	0.1Ω ~ 50Ω
KNP02W	KNP-200	2W	5.5	16	28	0.70	0.1Ω ~ 120Ω
KNP03W	KNP-300	3W	6.5	17.5	28	0.75	0.1Ω ~ 200Ω
KNP05W	KNP-500	5W	8.5	25	38	0.75	0.5Ω ~ 470Ω
KNP07W	KNP-700	7W	8.5	30	38	0.75	0.5Ω ~ 470Ω
KNP08W	KNP-800	8W	8.5	40	38	0.75	1Ω ~ 1.5KΩ
KNP09W	KNP-900	9W	8.5	53	38	0.75	1Ω ~ 1.5KΩ

Small Size

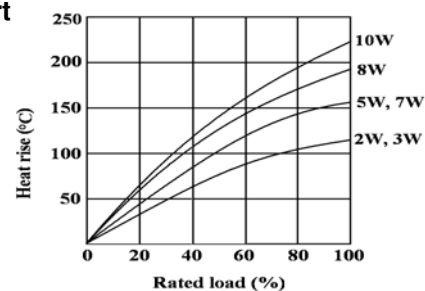
Part No.	Style	Power Rating at 70°C	Dimension (mm)				Resistance Range
			D ± 1	L ± 1	H ± 3	d ± 0.05	
KNP01S	KNP-100-S	1W	3.5	10	28	0.54	0.1Ω ~ 39Ω
KNP02S	KNP-200-S	2W	5	12	28	0.70	0.1Ω ~ 50Ω
KNP03S	KNP-300-S	3W	5.5	16	28	0.70	0.1Ω ~ 120Ω
KNP05S	KNP-500-S	5W	6.5	17.5	28	0.75	0.1Ω ~ 200Ω
KNP07S	KNP-700-S	7W	8.5	25	38	0.75	0.5Ω ~ 470Ω
KNP08S	KNP-800-S	8W	8.5	30	38	0.75	0.5Ω ~ 470Ω
KNP09S	KNP-900-S	9W	8.5	40	38	0.75	1Ω ~ 1.5KΩ
KNP0AS	KNP-1000-S	10W	8.5	53	38	0.75	1Ω ~ 1.5KΩ

Remark : For KNP Series Max Working Voltage : 500V.
Max Overload Voltage : 1000V.

Derating Curve

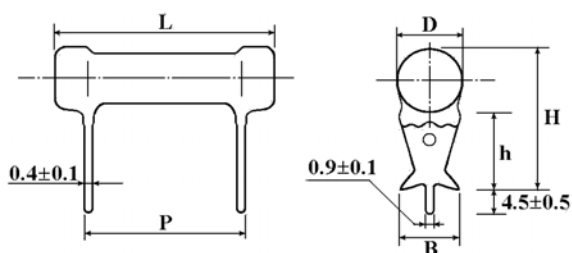


Heat Rise Chart

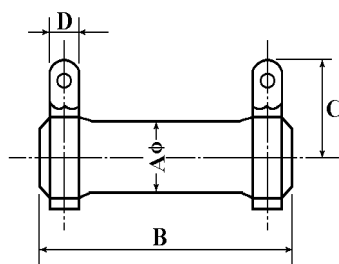


WIRE-WOUND FIXED RESISTORS

(2) KNS Type



Part No.	Style	Power Rating at 70°C	Dimension (mm)						Resistance Range
			D Max.	L ± 1.5	P ± 0.5	H ± 1	h ± 1	B ± 0.5	
KNS02W	KNS-200	2W	8	19	8	19.0	12	4.5	0.1Ω ~ 50Ω
KNS03W	KNS-300	3W	8	21	10	19.0	13	4.5	0.5Ω ~ 50Ω
KNS05W	KNS-500	5W	10	26	15	21.5	13	6.5	0.5Ω ~ 100Ω
KNS07W	KNS-700	7W	10	31	20	21.5	13	6.5	1Ω ~ 1KΩ
KNS08W	KNS-800	8W	10	41	30	21.5	13	6.5	1Ω ~ 1.5KΩ
KNS0AW	KNS-1000	10W	10	54	43	21.5	13	6.5	1Ω ~ 2KΩ



(3) KNH Type



Part No.	Style	Power Rating at 70°C	Dimension (mm)				Resistance Range
			A ± 1.5	B ± 1.5	C ± 3	D ± 0.5	
KNH020	KNH-20W	20W	19	50	19	4.5	0.4Ω~10KΩ
KNH030	KNH-30W	30W	19	75	19	4.5	0.5Ω~15KΩ
KNH040	KNH-40W	40W	19	90	19	4.5	0.6Ω~20KΩ
KNH050	KNH-50W	50W	28	75	31	8	3Ω~25KΩ
KNH060	KNH-60W	60W	28	90	31	8	3Ω~30KΩ
KNH080	KNH-80W	80W	28	115	31	8	3Ω~40KΩ
KNH...100	KNH-100W	100W	28	140	31	8	3Ω~50KΩ
KNHA25	KNHA-25W	25W	21	41	24	5	0.4Ω~10KΩ