

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.

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

K	N	P	0	1	W	J	0	1	0	1	A	1	0				
<p>Type:</p> <p>KNP = KNP KNS = KNS KNH = KNH</p>			<p>Wattage:</p> <p>Normal W2 = 1/2W 1W = 1W 9W = 9W AW = 10W A0 = 100W</p> <p>Small 1S = 1W-S 9S = 9W-S AS = 10W-S</p> <p>Extra Small 3U = 3W-SS</p>			<p>Resistance Value:</p> <ul style="list-style-type: none"> E-24 series: 1st digit is "0" 2nd & 3rd digits are the 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 the significant figures of the resistance and the 4th digit indicates the number of zeros. Ex. 1.33K = 1331 			<p>Packing Type:</p> <p>A = Tape/Box T = Tape/Reel B = Bulk/Box</p>			<p>Packing Qty:</p> <p>1 = 1,000 pcs. A = 500 pcs. B = 2,500 pcs.(for T/R) 0 = Bulk/Box</p>			<p>Additional Information:</p> <p>(for KNS,KNH,KNHA Type B/B pack only) 0 = NIL</p> <p>(for KNP Type only) 0 = PT-52mm, PT-26mm 8 = PT-58mm 9 = PT-64mm</p>		
<p>Feature:</p> <p>0 = Standard I = Non-Inductive</p>			<p>Tolerance:</p> <p>F = ±1% G = ±2% J = ±5% K = ±10%</p>														



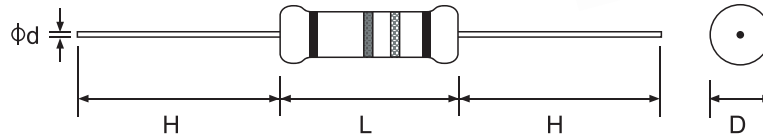
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Features

- 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)					Resistance Range	Std Packing Qty
			D±1	L±1	d±0.05	H±3	PT		
Normal Size									
KNP0W2	KNP 50	1/2W (0.50W)	3.5	10.0	0.54	28	52	0.1Ω ~ 39Ω	1,000
KNP01W	KNP 100	1W	5.0	12.0	0.70	25	52	0.1Ω ~ 50Ω	1,000
KNP02W	KNP 200	2W	5.5	16.0	0.70	28	64	0.1Ω ~ 120Ω	1,000
KNP03W	KNP 300	3W	6.5	17.5	0.75	28	64	0.1Ω ~ 200Ω	1,000
KNP05W	KNP 500	5W	8.5	25	0.75	38	B/B	0.5Ω ~ 470Ω	1,000
KNP07W	KNP 700	7W	8.5	30	0.75	38	B/B	0.5Ω ~ 470Ω	1,600
KNP08W	KNP 800	8W	8.5	40	0.75	38	B/B	1Ω ~ 1.5KΩ	1,600
KNP09W	KNP 900	9W	8.5	53	0.75	38	B/B	1Ω ~ 1.5KΩ	1,800
Small Size									
KNP01S	KNP 100-S	1W	3.5	10.0	0.54	28	52	0.1Ω ~ 39Ω	1,000
KNP02S	KNP 200-S	2W	5.0	12.0	0.70	25	52	0.1Ω ~ 50Ω	1,000
KNP03S	KNP 300-S	3W	5.5	16.0	0.70	28	64	0.1Ω ~ 120Ω	1,000
KNP05S	KNP 500-S	5W	6.5	17.5	0.75	28	64	0.1Ω ~ 200Ω	500
KNP07S	KNP 700-S	7W	8.5	25	0.75	38	B/B	0.5Ω ~ 470Ω	1,000
KNP08S	KNP 800-S	8W	8.5	30	0.75	38	B/B	0.5Ω ~ 470Ω	1,600
KNP09S	KNP 900-S	9W	8.5	40	0.75	38	B/B	1Ω ~ 1.5KΩ	1,600
KNP0AS	KNP 1000-S	10W	8.5	53	0.75	38	B/B	1Ω ~ 1.5KΩ	1,800

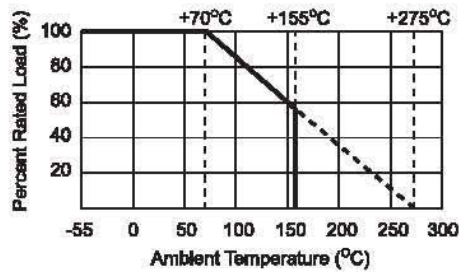
Remark: For KNP Series Max. Working Voltage: 500V
 Max. Overload Voltage: 1,000V
 Dielectric Withstanding Voltage: 1/2W, 1W-S: 350V, >1W-S: 500V

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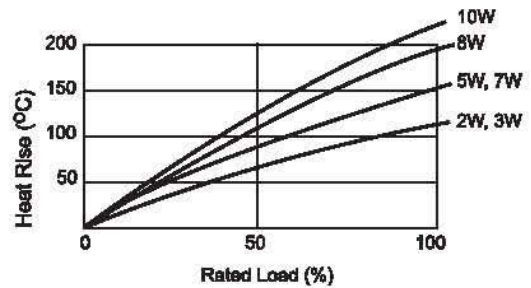
Part No.	Style	Power Rating at 70°C	Dimension (mm)					Resistance Range	Std Packing Qty
			D±1	L±1	d±0.05	H±3	PT		
Extra Small Size									
KNP01U	KNP 100-SS	1W	3.0	9.0	0.54	28	52	0.1Ω ~ 180Ω	1,000
KNP02U	KNP 200-SS	2W	3.5	10.0	0.54	28	52	0.1Ω ~ 220Ω	1,000
KNP03U	KNP 300-SS	3W	5.5	13.5	0.70	28	64	0.1Ω ~ 50Ω	1,000
KNP04U	KNP 400-SS	4W	5.5	16.0	0.70	28	64	0.1Ω ~ 120Ω	1,000
KNP0AU	KNP 1000-SS	10W	8.5	40	0.75	38	B/B	1Ω ~ 1.5KΩ	1,800



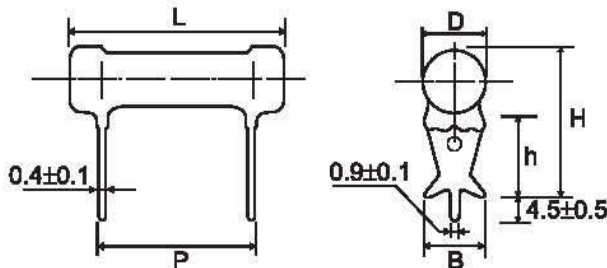
Derating Curve



Heat Rise Chart



KNS Type

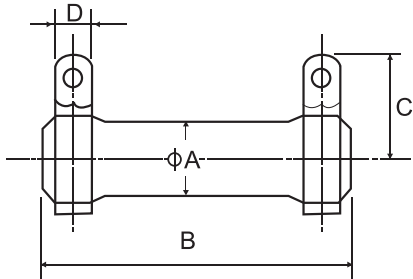


Part No.	Style	Power Rating at 70°C	Dimension (mm)						Resistance Range
			D Max	L±1.5	P±0.5	H±1	h±1	B±0.5	
KNS02W	KNS 200	2W	8	19	8	19	12	4.5	0.1Ω ~ 50Ω
KNS03W	KNS 300	3W	8	21	10	19	13	4.5	0.5Ω ~ 50Ω
KNS05W	KNS 500	5W	10	28	15	21.5	13	6.5	0.5Ω ~ 100Ω
KNS07W	KNS 700	7W	10	31	20	21.5	13	6.5	1Ω ~ 1KΩ
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

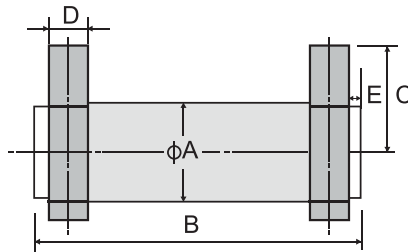
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KNH, KNHA Type

KNH Type



KNHA 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
KNHA30	KNHA 30W	30W	21	42	24	5	0.4Ω ~ 10KΩ