

### Feature (特性)

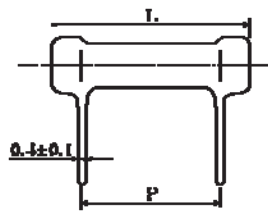
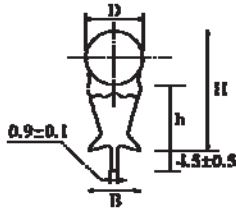
- Excellent flame retardant coating 优异不燃性涂装
- Too low or too high ohmic value can be supplied on a case to case basis  
超低或超高阻值都可特别提供
- Non-Inductive type available 可特别提供无感型产品



### KNP Type (KNP型)



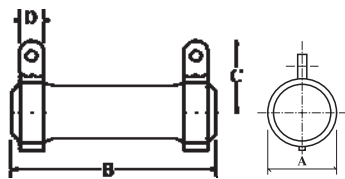
### KNS Type (KNS型)



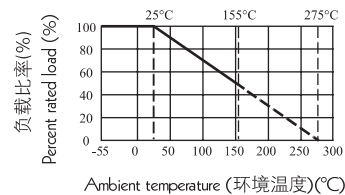
Part No. 料号	Type 类型	Power Rating 功率 70°C	Dimension (尺寸)(mm)						Resistance Range 阻值范围
			D ± 1.0	L ± 1.5	P ± 1	H ± 1	h ± 1	B ± 0.5	
KNS02W	KNS-200	2W	7.0	19.0	8	19	12	4.5	0.05Ω ~ 470Ω
KNS03W	KNS-300	3W	7.0	21.0	10	19	13	4.5	0.068Ω ~ 470Ω
KNS05W	KNS-500	5W	9.0	26.0	15	21.5	13	6.5	0.01Ω ~ 750Ω
KNS07W	KNS-700	7W	9.0	31.0	20	21.5	13	6.5	0.1Ω ~ 1.1KΩ
KNS08W	KNS-800	8W	9.0	41.0	30	21.5	13	6.5	0.2Ω ~ 2.2KΩ
KNS0AW	KNS-1000	10W	9.0	54.0	43	21.5	13	6.5	0.3Ω ~ 3.3KΩ

Part No. 料号	Type 类型	Power Rating 功率 70°C	Dimension (尺寸)(mm)				Resistance Range 阻值范围
			D ± 1	L ± 1	d ± 0.05	H ± 3	
Normal Size (正常尺寸)							
KNP0W4	KNP-25	1/4W	2.5	6.5	0.55	28	0.01Ω ~ 200Ω
KNP0W2	KNP-50	1/2W	3.5	9.5	0.60	28	0.01Ω ~ 820Ω
KNP01W	KNP-100	1W	4.5	11.5	0.65	28	0.01Ω ~ 1.2KΩ
KNP02W	KNP-200	2W	5.5	15.5	0.70	28	0.01Ω ~ 3.0KΩ
KNP03W	KNP-300	3W	6.5	17.5	0.75	28	0.039Ω ~ 3.9KΩ
KNP05W	KNP-500	5W	8.5	24.5	0.75	38	0.082Ω ~ 5.6KΩ
KNP07W	KNP-700	7W	8.5	29.5	0.75	38	0.1Ω ~ 8.2KΩ
KNP08W	KNP-800	8W	8.5	39.5	0.75	38	0.15Ω ~ 12KΩ
KNP09W	KNP-900	9W	8.5	52.5	0.75	38	0.22Ω ~ 15KΩ
Small Size (小型化尺寸)							
KNP0S2	KNP-50-S	1/2W	2.5	6.5	0.55	28	0.01Ω ~ 200Ω
KNP01S	KNP-100-S	1W	4.0	9.5	0.60	28	0.01Ω ~ 820Ω
KNP02S	KNP-200-S	2W	4.5	11.5	0.65	28	0.01Ω ~ 1.2KΩ
KNP03S	KNP-300-S	3W	5.5	15.5	0.70	28	0.01Ω ~ 3.0KΩ
KNP05S	KNP-500-S	5W	6.5	17.5	0.75	28	0.039Ω ~ 3.9KΩ
KNP07S	KNP-700-S	7W	8.5	24.5	0.75	38	0.082Ω ~ 5.6KΩ
KNP08S	KNP-800-S	8W	8.5	29.5	0.75	38	0.1Ω ~ 8.2KΩ
KNP09S	KNP-900-S	9W	8.5	39.5	0.75	38	0.15Ω ~ 12KΩ
KNP0AS	KNP-1000-S	10W	8.5	52.5	0.75	38	0.22Ω ~ 15KΩ

### KNH Type (KNH型)



### Derating Curve (降功率曲线)



Part No. 料号	Type 类型	Power Rating 功率 70°C	Dimension (尺寸)(mm)				Resistance Range 阻值范围
			A ± 1.5	B ± 1.5	C ± 3	D ± 1	
KNH020	KNH-20W	20W	19	50	19	5	0.4Ω ~ 1KΩ
KNH025	KNH-25W	25W	19	60	19	5	0.4Ω ~ 1KΩ
KNH030	KNH-30W	30W	19	75	19	5	0.5Ω ~ 3KΩ
KNH040	KNH-40W	40W	19	90	19	5	0.6Ω ~ 5KΩ
KNH050	KNH-50W	50W	31	75	31	8	3Ω ~ 10KΩ
KNH060	KNH-60W	60W	31	90	31	8	3Ω ~ 15KΩ
KNH080	KNH-80W	80W	31	115	31	8	3Ω ~ 20KΩ
KNH ..... 100	KNH-100W	100W	31	140	31	8	3Ω ~ 30KΩ

### Performance Specification (性能)

Temperature coefficient	温度系数	≥20Ω: ±300PPM/°C; <20Ω: ±400PPM/°C
Short-time overload	短时间过负荷	ΔR/R ≤ ±(2%+0.05Ω), with no evidence of mechanical damage (无可见机械损伤)
Terminal strength	端子强度	No evidence of mechanical damage (无可见机械损伤)
Soldering heat	耐焊接热	ΔR/R ≤ ±(1%+0.05Ω), with no evidence of mechanical damage (无可见机械损伤)
Solderability	可焊性	Min. 95% coverage (最少 95% 覆盖率)
Load life in humidity	湿度寿命	ΔR/R ≤ ±(5%+0.05Ω), with no evidence of mechanical damage (无可见机械损伤)
Load life	负载寿命	ΔR/R ≤ ±(5%+0.05Ω), with no evidence of mechanical damage (无可见机械损伤)

### Ordering Procedure (Example: KNP 3W-S 5% 12Ω T/B-1000)

订购方式 (例如: KNP 3W-S 5% 12Ω T/B-1000)

K	N	P	0	3	S	J	0	1	2	0	A	1	0	
<b>Product Type (产品类型):</b> KNP = KNP type KNS = KNS type KNH = KNH type			<b>Special Feature (特征):</b> O = Standard (标准品) I = Non-Inductive (无感型)		<b>Tolerance (公差):</b> G = ±2% J = ±5% K = ±10%		<b>Resistance Value (阻值):</b> 5%, 10%(E-24 series) The 1 <sup>st</sup> digit is "O", the 2 <sup>nd</sup> & 3 <sup>rd</sup> digits are for the significant figures of the resistance and the 4 <sup>th</sup> indicate the number of zeros following 5% 产品 (E-24 系列阻值): 第 1 位数是 O, 第 2、3 位数表示阻值的有效数, 第 4 位表示有几个 O; 2%(E-24 series): The 1 <sup>st</sup> digit is "O", the 2 <sup>nd</sup> & 3 <sup>rd</sup> digits are for the significant figures of the resistance and the 4 <sup>th</sup> indicate the number of zeros following; 2% 产品 (E-24 系列阻值): 第 1-3 位数表示阻值的有效数, 第 4 位数表示有几个 O				<b>Packing Qty. (包装数量):</b> 1 = 1,000pcs A = 500pcs B = 2,500pcs O = Bulk/Box (散装 / 盒装)			<b>Additional Information (注):</b> O = NIL (标准品)
<b>Wattage (功率):</b> Normal Size (正常尺寸): W2 = 1/2W   1W = 1W   2W = 2W   3W = 3W   5W = 5W 7W = 7W   8W = 8W   9W = 9W   AW = 10W   20 = 20W 25 = 25W   30 = 30W   40 = 40W   50 = 50W   60 = 60W 80 = 80W Small Size (小尺寸): 1S = 1W-S   2S = 2W-S   3S = 3W-S   5S = 5W-S   7S = 7W-S 8S = 8W-S   9S = 9W-S   AS = 10W-S *** 00 = for power rating over 100W, please indicate the power rating at the last 3 digits of the part No. (B/B) only. (* ** 00 = 功率超过 100W. 注: B/B 时请注明功率于料号最后三位数)										<b>Packing Type (包装类型):</b> A = Tape/Box (编带 / 盒装) T = Tape/Reel (编带 / 卷装) B = Bulk/Box (散装 / 盒装)				