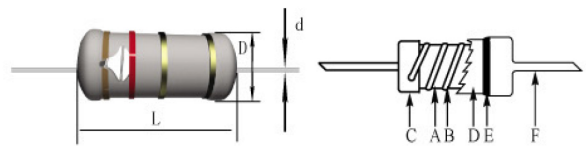




●特点 Features:

- 1、耐热性好、温度系数小、噪声低、负荷功率大。
Good heat-durability, low temperature coefficient, low noise, high overload Power.
- 2、使用环境温度 Operating ambient temperature: $-55^{\circ}\text{C} \sim +275^{\circ}\text{C}$ 。
- 3、表面涂不燃性面漆, 1/4W~6W用色环标识阻值, 涂漆颜色为灰白色; 7W以上用印字标识阻值, 涂漆颜色为绿色。
Surface is nonflammable, the 1/4W ~6W coating is gray white and indicate the resistance value by color ring, the 7W or over will indicate the resistance value by lettering and coating is green.
- 4、阻值误差 Resistance tolerance: $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$ 、 $\pm 10\%$ 。

●产品结构图 Construction Drawing:



- A、高热传导瓷芯 High heat exchanged Ceramic core.
B、镍铬或康铜合金丝 Nickel Chrome or nickel and copper alloy.
C、铁帽 Iron Cap.
D、硅树脂涂料 Silicon resin coating.
E、色环 Color Ring.
F、镀锡铜线 Tinned copper lead wire

●规格尺寸及耐压性能 Dimensions and Voltage Performance:

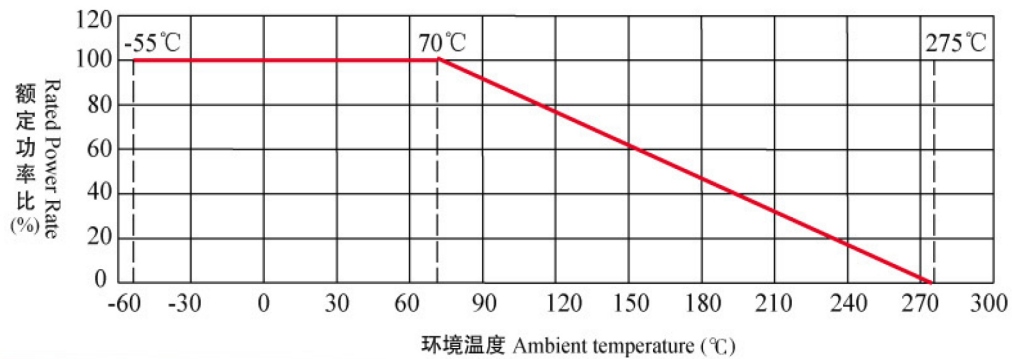
料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions(mm)			最大工作电压 Max. working voltage	最大负荷电压 Max. overload voltage	最高绝缘电压 Max. insulation voltage
			L ± 1	D ± 0.5	d ± 0.05			
KNR014	1/4W	0R5~750R	6.0	2.3	0.52	150V	300V	250V
KNR012	1/2W	0R01~1K5	9.0	3.2	0.58	150V	400V	250V
KNR01B	1W	0R01~1K5	9.0	3.2	0.75	150V	400V	250V
KNR02B	2W	0R01~3K3	11.0	4.5	0.75	250V	400V	350V
KNR03B	3W	0R01~4K7	15.0	5.0	0.75	350V	600V	500V
KNR04B	4W	0R01~8K2	17.0	6.0	0.75	350V	600V	500V
KNR05B	5W	0R01~8K2	17.0	6.0	0.75	350V	600V	500V
KNR06B	6W	0R02~12K	25.0	8.0	0.75	500V	600V	750V
KNR07B	7W	0R03~18K	31.0	8.0	0.75	500V	600V	750V
KNR08B	8W	0R03~27K	41.0	8.0	0.75	500V	600V	750V
KNR09B	9W	0R04~33K	52.0	8.0	0.75	750V	800V	1000V
KNR10B	10W	0R04~33K	52.0	8.0	0.75	750V	800V	1000V

备注Note:

b、额定电压 Rated voltage = $\sqrt{\text{功率Power} \times \text{阻值Resistance Value}}$

c、当计算得出的额定电压大于最大工作电压电压, 使用时取二者较小值。If the calculated rated voltage is higher than max. working voltage, it will be got the lower value.

●额定功率递减图 Rated Power Derating Curve:



●性能测试 Performance Test:

测试项目 Test Item	测试条件 Test Condition	性能 Performance
温度系数 Temperature coefficient	在常温及常温+100℃时分别测量电阻值并计算每度的阻值变化率。Test the resistance value at normal temperature and normal temperature added 100℃, calculate per °C resistance value change rate.	$\pm 300\text{ppm}/^\circ\text{C}$
短时间过负荷 Short time overload	1/4 ~ 4W施加5倍额定功率, 5 ~ 10W施加10倍额定功率的电压或最高负荷电压(取较小者)5秒。1/4~4W: According 5 times rated power to account the voltage, 5~10W: According 10 times rated power to account the voltage or max. overload voltage (get the lower) for 5 seconds.	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$
断续过负荷 Pulse overload	4倍额定电压或最高断续负荷电压(取较小者)测试1秒, 停止25秒, 循环10000 ± 200次。At 4× rated voltage or Max. pulse overload voltage (get the Lower) cycle 10000±200 times (1 second on, 25 seconds off)。	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$
耐焊接热 Resistance to soldering heat	在350 ± 10℃的锡炉中浸入2 ~ 3秒。 Immerge into the 350±10℃ tin stove for 2~3 seconds.	$\Delta R \leq \pm 1\%R_0$
可焊性 Solderability	在245 ± 3℃锡炉中浸入2 ~ 3秒。 Immerge into the 245±3℃ tin stove for 2~3 seconds.	焊锡面积覆盖率95%以上 The soldering area is over 95%
温度循环 Temperature cycling	在-55℃时放置30分钟, 然后在+25℃时放置10~15分钟, 然后再在+275℃时放置30分钟, 然后在+25℃时放置10~15分钟, 共循环5次。At -55℃ for 30 min, then at +25℃ for 10~15 min, then at +275℃ for 30 min, then at +25℃ for 10~15 min, total 5 cycles.	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$
耐湿负荷寿命 Load life in humidity	在温度为40 ± 2℃, 相对湿度为90 ~ 95%的恒温恒湿箱中, 施加额定电压或最大工作电压(取较小者)共1000小时(通1.5小时, 断0.5小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$
耐温负荷寿命 Load life in heat	在70 ± 2℃恒温恒湿箱中施加额定电压或最大工作电压(取较小者)1000小时(通1.5小时, 断0.5小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 70±2℃.	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$
难燃性 Nonflammability	分别按5、10、16倍额定功率加交流负荷5分钟。Respectively load AC voltage by 5, 10, 16 times rated power for 5 minutes.	不可有明显火焰 No visible flame

●料号规则 Part No. Regulation:

KNR	01B	J	0	T520	100R0
产品名称 Product Name	功率 Power	精度 Tol.	特殊码 Special Code	成型 Forming	阻值 Ohm
绕线固定电阻器 Wirewound Fixed Resistors	014 = 1/4W 012 = 1/2W 01B = 1W 02B = 2W 03B = 3W 04B = 4W 05B = 5W 06B = 6W 07B = 7W 08B = 8W 09B = 9W 10B = 10W	F = ±1% G = ±2% J = ±5% K = ±10%		T520 = T52 T710 = T71 M001 = M F001 = F B001 = B	0R100 = 0.1Ω 0R220 = 0.22Ω 10R00 = 10Ω 100R0 = 100Ω 10K00 = 10KΩ