

KNQ 被釉功率瓷管电阻器 Glaze High Power Ceramic Tube Resistors



本体颜色: Body Color

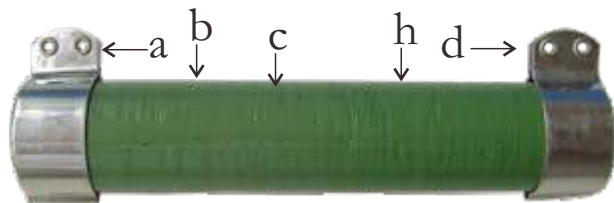
标准品: Standard (Green 绿色)

标示: Marking

(根据客户要求提供相应标识)

(According to the customer request to provide corresponding identification)

● 结构图 Construction



a	接线端子	Terminal block
b	陶瓷釉覆盖层	Ceramic glaze covering
c	合金丝	Alloy wire
h	高铝瓷管	Alumina porcelain

● 特性 Feature

I 电阻表面被釉, 抗污染性强, 耐化学气体侵蚀、绝缘度高, 耐湿耐温, 可在恶劣环境下使用。

Surface glazed, won't be easily polluted or eroded by chemistry gas, high insulating capacity, can resist humidity and heat well, can be used in the atrocious environment.

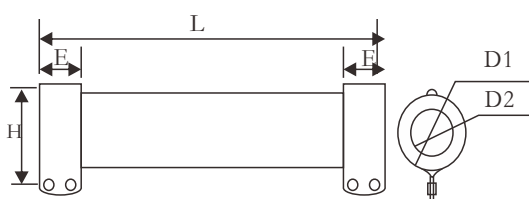
II 过负荷能力强, 热稳定性好, 使用寿命长、耐高压。

Good overload and heat durability capacity, the useful time is longer than the others, withstand high voltage.

III 精度范围: $\pm 5\%$ 、 $\pm 10\%$

Resistance tolerance: $\pm 5\%$ 、 $\pm 10\%$

● 尺寸 Dimensions



规格 Type	功率 (W)	尺寸(mm)				
		$L \pm 1.0$	$E \pm 0.5$	$D1 \pm 0.5$	$D2 \pm 0.5$	$H \pm 2.0$
KNQ	100	140.00	20.00	31.00	20.00	54.00
KNQ	200	165.00	20.00	31.00	20.00	54.00
KNQ	300	300.00	20.00	31.00	20.00	54.00
KNQ	500	300.00	20.00	41.00	30.00	62.00

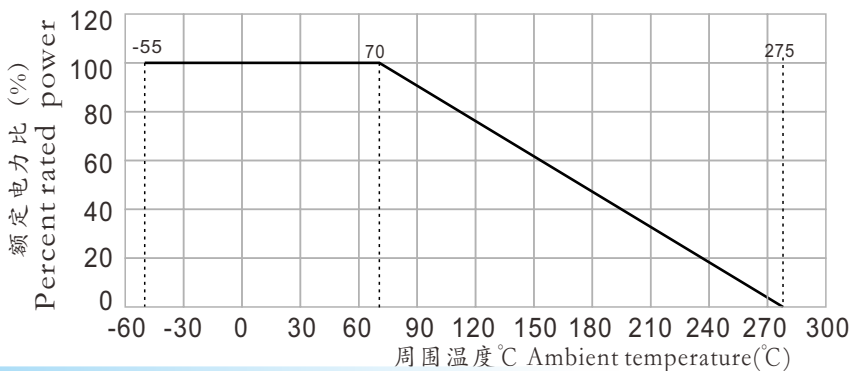
参考规格 Reference Standards

JIS C 5201-1

功率、阻值范围与耐电压 Power And Resistance etc

规格 Type	功率 Power (W)	阻值范围 Resistance Range(Ω)		误差值 Tolerance	温度系数 T.C.R PPM/°C	最高使用电压 Max Working Voltage (V)	最高负荷电压 Max Overload Voltage (V)	耐电压 Dielectric Withstanding Voltage (V)
		标准型 Standard	无感型 Non-inductive					
KNQ	100	1~100K	1~300	±5% ±10%	±350 PPM/°C	$\sqrt{P \cdot R}$	$2.5\sqrt{P \cdot R}$	700V/Ac
KNQ	200	1~100K	1~300	±5% ±10%	±350 PPM/°C	$\sqrt{P \cdot R}$	$2.5\sqrt{P \cdot R}$	700V/Ac
KNQ	300	1~150K	1~1 k	±5% ±10%	±350 PPM/°C	$\sqrt{P \cdot R}$	$2.5\sqrt{P \cdot R}$	700V/Ac
KNQ	500	1~200K	1~2 k	±5% ±10%	±350 PPM/°C	$\sqrt{P \cdot R}$	$2.5\sqrt{P \cdot R}$	700V/Ac

额定温度下降曲线图 Derating Curve



性能 Performance

试验项目 Test Items	性能 Performance	试验方法 Test Methods(JIS C 5201-1)
温度系数 Temperature coefficient	±350ppm/°C	在常温及常温+100°C时分别测量电阻并计算每度的阻值变化率。 Test resistance value at normal temperature and normal temperature added 100°C, calculate °C resistance value change rate.
短时间负荷 Short-time overload	$\Delta R \leq \pm(2\%R_0 + 0.05\Omega)$	施加10倍额定功率或最高负荷电压(取较小者)5秒。 According 10 times rated power to account the power or max. overload voltage(get the lower) for 5seconds.
耐焊接热 Resistance to soldering heat	$\Delta R \leq \pm(1\%R_0 + 0.05\Omega)$	在350±10°C的锡炉中浸入2~3秒。 Immerge into the 350±10°C tin stove for 2~3 seconds
可焊性 Solderability	焊锡面积覆盖率95%以上 Tth soldering area is over 98%	在245±3°C的锡炉中浸入2~3秒。 Immerge into the 245±3°C tin stove for 2~3 seconds
温度循环 Temperature cycle	$\Delta R \leq \pm(1\%R_0 + 0.05\Omega)$	在-55°C时放置30分钟,然后在+25°C时放置10~15分钟,然后再在+155°C时放置30分钟,然后再在25°C时放置10~15分钟,共循环5次。 At-55°C for 30min, then at +25°C for 10~15min, then at +155°C for 30min, then at +25°C for 10~15, min, total 5cycles.
耐湿负荷寿命 Load life in humidity	$\Delta R \leq \pm(5\%R_0 + 0.05\Omega)$	在温度为40±2°C,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 1000hours(1.5hours on and half-hour off) at the 40±2°C and 90~95% relative humidity.
耐温负荷寿命 Load life in heat	$\Delta R \leq \pm(5\%R_0 + 0.05\Omega)$	在70±2°C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 1000hours(1.5hours on and half-hour off) at the 70±2°C.
不燃性 Nonflammability	不可有明显火焰 No visible flame	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.
耐压 Withstand voltage	AC等于700V无击穿	耐压测试仪,测量按线端与电阻体之间的绝缘强度。 Pressure testre, measurement according to be line end and resistance body between the dielectric strength

● 料号编号 Ordering Information

例 example

KNQ	200	J	10R00	A
产品名称 Product Name	功率Power	精度 Tol	阻值Ohm	特殊码 Special code
被釉功率瓷管电阻器 Glaze High Power Ceramic Tube Resistors	200=200W	J=±5% K=±10%	0R100=0.1Ω 0R200=0.22Ω 10R00=10Ω 10K00=10KΩ	A1不带支架 A1Without brackets A2带支架 A2With brackets