



- 稳定度等级5%
Stability reaches 5%
- 产品阻值范围宽, 精度高
Wide resistance range & high accuracy
- 防潮、阻燃性佳
Moisture proof & flame retardant

RI40型高阻玻璃釉电阻器 RI40 High-resistance Cermet Resistors

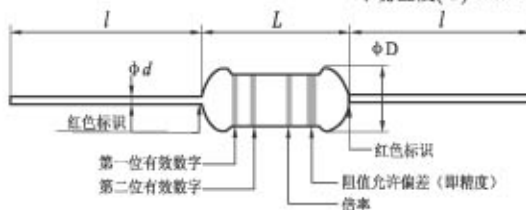
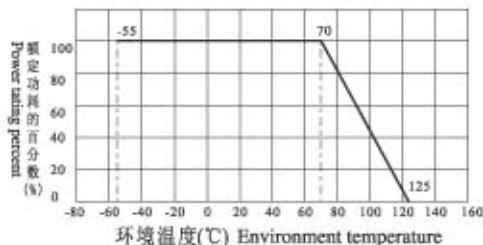
★ 适用标准 Standard

- ▲ GB/T5729-2003(IEC115-1)电子设备用固定电阻器第一部分: 总规范
GB/T5729-2003(IEC115-1) Fixed resistor used in electronic equipment part1: Generic specification
- ▲ Q/RU236-1999(企业标准) RI40玻璃釉膜电阻器详细规范(高于SJ2867)
Q/RU236-1999 Type RI40 cermet resistor specification
- ▲ IEC68 基本环境试验规程系列标准
IEC68 Basic environment test procedure

★ 外形尺寸 Dimension (mm)

型号 Type	阻体尺寸 Resistor dimension		引线尺寸 Terminal dimension	
	ΦD	L	Φd±0.05	l±1
RI40-0.25	2.5±0.2	6.6±0.3	0.6	28
RI40-0.5	3.6±0.3	9.6±0.9	0.7	28
RI40-1	4.6±0.9	12.9±1.1	0.8	26
RI40-2	5.9±0.6	15.9±1.1	0.9	26

★ 降功耗曲线 Derating curve



Note: 1 引线两端涂层长度≤1.5mm.
the Allowed painted length≤1.5mm.
2 0.25W产品只在精度环一侧作红色标识。
0.25W Red marking at the end of resistor by tolerance code.

★ 主要技术指标 Main specification

型号 Type	70℃下额定功耗 Rated power consumption at 70℃ (W)	阻值范围 Resistance range (Ω)	标称阻值系列 Resistance series	阻值允许偏差 Resistance tolerance ±(%)	电阻温度系数 TCR ±(×10 ⁻⁶ /°C)	元件极限电压 Limit voltage (Dc or AC effective value) (V)	绝缘电压 (直流或交流峰值) Insulation voltage (DC or AC peak value) (V)
RI40	0.25	1.5K~51M	E24 E48 E96	1(F)、5(J)、10(K)	500	350	500
	0.5	220Ω~33M		5(J)、10(K)		500	750
	1	330Ω~56M				700	1000
	2	1K~100M				700	1000

★ 主要检验项目、检验方法及性能要求 Main inspection items, methods & requirements

检验项目 Items	性能要求 Requirements	检验方法 Methods
电阻温度系数TCR (×10 ⁶ /°C)	±500	-55°C~+125°C
70℃耐久性 Endurance at 70°C	±(5%R+0.1Ω)	70±2°C、U _R (or U _{max}) 1000h
耐电压 Withstand voltage	无击穿或飞弧 No breakage or flashover	V形块法施加交流电压其值按表2中绝缘电压值, V-block, apply the test voltage for List2 insulation voltage
可焊性 Solder ability	焊料润湿引出端并能自由流动说明可焊性良好 Good tinning	235±5°C 2±0.5s
过载 Over-load	±(1%R+0.05Ω)	2.5U _R (or 2U _{max}) 5s (0.25、0.5W) 10s (Other)
引出端强度 Terminal strength	±(1%R+0.05Ω)	拉力: 10N, 弯曲: 连续2次, 每个方向1次扭转: 180° 2次。 Pull dint: 10N Bent: In a row 2 times, each direction once turns round: 180° 2 times
耐焊接热 Resistance to soldering heat	±(1%R+0.05Ω)	350±10°C 3.5±0.5s 距元件主体 (Be apart from component corpus) : 2+0.50mm。
温度快速变化 Fast temperature change	±(1%R+0.05Ω)	55°C~+125°C 5次循环 cycle 5time
振动 Vibration	±(1%R+0.05Ω)	频率: 10Hz~500Hz 振幅: 0.75mm或98m/s ² (取较小者) 总持续时间: 6h 10Hz~500Hz 0.75mm(or98m/s ²) 6h
气候顺序 Climate category	±(5%R+0.1Ω)	干热—潮湿(第一个循环)—寒冷—低气压—潮湿(其余的循环)—直流负荷 Dry heat, hot and damp circulation (first) cold low pressure hot and damp (rest circulation) direct current carries
稳态湿热 Steady damp-heat	±(5%R+0.1Ω)	T=40±2°C 相对湿度90~95% 5天 T=40±2°C humidity: 90~95% 5day
上限类别温度耐久性 Endurance at upper category temperature	±(5%R+0.1Ω)	U=0 125°C 1000h
阻燃性 flame retardant	燃烧时间小于10S Flaming time<10S	火焰法 (Flames method) 15s 5次 (Time)
电涌实验 Surge test	±50%	R≥1MΩ, U=10KV, 脉冲周期: 5秒, 脉冲次数 50次 R≥1MΩ, U=10KV Period of puls 5S 50time