

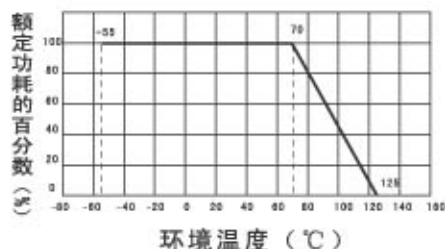
- 通过IECQ认证(RJ14型)  
IECQ attestation (RJ14) Certificate
- 稳定度等级2%  
Stability reacts 2%
- 电阻温度特性佳、阻值宽，精度高，尺寸小  
Excellent temperature characteristic, wide resistance range, high accuracy & small size

**RJ13、14、15、16、17型金属膜电阻器**  
**RJ13、14、15、16、17 Metal film Resistor**

★ **适用标准 Standard**

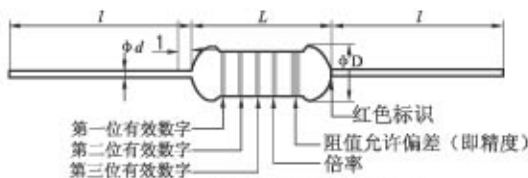
- ▲ GB/T5729-2003 电子设备用固定电阻器第一部分：总规范  
GB/T5729-2003 Fixed resistor used in electronic equipment part1:General specification
- ▲ SJ/T11113-1999 RJ13型金属膜固定电阻器详细规范 评定水平E  
SJ/T11113-1999 Type RJ13 metal film resistor specification
- ▲ GB5873-1986 (SJ/T10775) RJ14型金属膜固定电阻器详细规范 评定水平E  
GB5873-1986 (SJ/T10775) Type RJ14 metal film resistor specification
- ▲ GB7275-1987 (SJ/T10872) RJ15型金属膜固定电阻器详细规范 评定水平E  
GB7275-1987 (SJ/T10872) Type RJ15 metal film resistor specification
- ▲ Q/RU221-1994 RJ16、17型金属膜电阻器详细规范 评定水平E  
Q/RU221-1994 RJ16、17 metal film resistor specification Assess the level E
- ▲ IEC68 基本环境试验规程系列标准  
Basic environment test procedure

★ **降功耗曲线 Derating curve**



★ **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±2
RJ13	1.9±0.2	3.5±0.3	0.5	28
RJ14	2.3±0.2	6.5±0.3	0.6	28
RJ15	3.5±0.4	9.6±0.5	0.7	28
RJ16	4.5±0.5	13.0±1	0.8	28
RJ17	6.5±0.5	17.0±1	0.8	28



- 注：1 引线两端涂层长度 ≤ 1.5 mm  
2 RJ13因尺寸小不打红色标识  
Allowed paint the length ≤ 1.5 mm.  
Red marking at the end of resistor by tolerance code, but RJ13 not marking.

★ **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)	阻值允许偏差 Resistance tolerance ± (%)	标称阻值系列 Resistance series	电阻温度系数 TCR ±(×10 <sup>-6</sup> /℃)	元件极限电压 (直流或交流有效值) 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)
RJ13	1/6	1~5.1M	5(J)	E24 E48 E96 E192	25、50、100	150	250
		1~2M	0.5(D), 1(F), 2(G), 5(J)				
RJ14	1/4	1~20M	1(F), 2(G), 5(J)				
		1~10M	0.5(D), 1(F), 2(G), 5(J)				
RJ15	1/2	1~20M	1(F), 2(G), 5(J)				
		1~10M	0.5(D), 1(F), 2(G), 5(J)				
RJ16	1	1~10M	1(F), 2(G), 5(J)	E24	250	500	500
RJ17	2	1~10M	1(F), 2(G), 5(J)	E48	250	750	750

阻值范围、阻值允许偏差及TCR超出上述指标的可供商供货。

★ **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	±(25、50、100、250)×10 <sup>-6</sup> /℃	-55℃~125℃
70℃耐久性Endurance at 70℃	±(2%R+0.1)Ω	70±2℃、U <sub>R</sub> (or U <sub>max</sub> ) 1000h
耐电压Withstand voltage	无击穿或飞弧 Without damage by flashover, fire, or breakdown, etc.	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Solderability	焊料润湿引出端并能自由流动 Solder disengagement flow combine Terminal embellish	265±5℃ 2±0.5s
过载Over-load	±(0.5%R+0.05)Ω	2.5U <sub>R</sub> (or 2U <sub>max</sub> ) 15s
引出端强度Terminal strength	±(0.5%R+0.05)Ω	拉力, 5N (RJ13), 10N (RJ14, 15), 弯曲, 连续2次, 每个方向1次扭转, 180° 2次 Pull force: 5N (RJ13), 10N (RJ14, 15) Bend: in a row 2 times, each direction once turns round 180° 2 times
耐焊接热Resistance to soldering heat	±(0.5%R+0.05)Ω	260±5℃ 10±1s 距元件主体 (Be apart from component corpus); 2 <sup>nd</sup> mm
温度快速变化Fast temperature change	±(0.5%R+0.05)Ω	-55℃/125℃ 5次循环
振动Vibration	±(0.5%R+0.05)Ω	10Hz~500Hz 0.75mm (或98m/s <sup>2</sup> ) 6h
气候顺序Climate category	±(2%R+0.1)Ω	干热, 循环湿热(第一循环)寒冷, 低气压, 循环湿热(其余循环)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	±(2%R+0.1)Ω	56天, RH: 93~98%
上限类别湿度耐久性Endurance at upper-limit temperature	±(2%R+0.1)Ω	125℃ 1000h