



- 产品功率大, 无感设计, 高频特性佳  
High power dissipation, Noninductive design,  
excellent characteristics at high frequency

## RI83 玻璃釉膜电阻器 RI83 Glaze Glass Film Resistor

### ★ 适用标准 Standard

- ▲ GB/T5729-2003 (IEC115-1) 电子设备用固定电阻器  
第一部份: 总规范  
GB/T5729-2003 (IEC115-1) Fixed resistor  
used in electronic equipment part 1:  
Generic specification
- ▲ Q/RU295-2008 (企业标准) RI83型玻璃釉膜  
电阻器详细规范  
Q/RU295-2008 (business standard) RI83  
glaze glass film resistor specification

### ★ 外形尺寸 Dimension

| 型号<br>Type | 电阻体尺寸 Resistor dimension |         |        |         |
|------------|--------------------------|---------|--------|---------|
|            | D                        | d       | L      | e       |
| RI83-300   | 25±0.5                   | 16±1    | 306±2  | 19±2    |
| RI83-5     | 9.5±0.5                  | 6.5±0.3 | 22±0.5 | 3.0±0.5 |
| RI83-10    | 19±0.5                   | 11±0.3  | 22±0.5 | 3.5±0.5 |
| RI83-20    | 12±0.5                   | 10±1    | 111±2  | 10±2    |
| RI83-150   | 22±0.5                   | 16±1    | 198±2  | 19±2    |
| RI83-200   | 22±0.5                   | 16±1    | 270±2  | 13±2    |
| RI83-250   | 22±0.5                   | 16±1    | 282±2  | 16±2    |
| RI83-350   | 28±0.5                   | 22±1    | 306±2  | 16±2    |
| RI83-500   | 25±0.5                   | 16±1    | 450±2  | 25±2    |
| RI83-500   | 30±0.5                   | 22±1    | 430±2  | 16±2    |

### ★ 主要技术指标 Main specification

| 型号<br>Type | 额定功率<br>Rated power<br>(W) | 辅助散热下功耗<br>Power with coolant<br>(W) | 阻值范围<br>Resistance range<br>(Ω) | 阻值允许偏差<br>Resistance tolerance<br>± (%) | 电阻温度系数<br>TCR<br>± (×10 <sup>-6</sup> /°C) |
|------------|----------------------------|--------------------------------------|---------------------------------|---|--|
| RI83       | 300                        | —                                    | 600                             | 5(D), 10(G)                             | 300  |
| RI83       | 5                          | 20                                   | 47                              | 1 (F)<br>2 (G)<br>5 (D)<br>10 (G)       | 100<br>200                                 |
| RI83       | 10                         | 400                                  | 6.2                             |   |  |
| RI83       | 20                         | 500                                  | 50                              |   |  |
| RI83       | 150                        | 1.5k                                 | 50                              |   |  |
| RI83       | 200                        | 2k                                   | 300                             |   |  |
| RI83       | 250                        | 2k                                   | 50                              |   |  |
| RI83       | 350                        | 5k                                   | 50                              |   |  |
| RI83       | 500                        | 10k                                  | 160                             |   |  |
| RI83       | 500                        | 10k                                  | 50                              |   |  |

### ★ 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  | ≤ ±300×10 <sup>-6</sup> /°C | -55°C ~ +155°C  |
| 耐久性<br>Endurance at 25°C                          | ≤ ±(5%R+0.1Ω)               | U <sub>r</sub> 1000h  |
| 过载<br>Over-load                                   | ≤ ±(2%R+0.05Ω)              | U=√10PR, 5s   |
| 温度快速变化<br>Fast temperature change                 | ≤ ±(1%R+0.05Ω)              | -55°C ~ +125°C 5次循环 (5cyclics)  |
| 气候顺序<br>Climate category                          | ≤ ±(5%R+0.1Ω)               | 干热 循环湿热(第一个循环) 寒冷 低气压 循环湿热<br>(其余的循环) 直流负荷<br>Xerothermiccyclic heat of wetting(first) cold climate low<br>pressurecyclic heat of wetting(others) DC load |
| 稳态湿热<br>Steady damp-heat                          | ≤ ±(2%R+0.1Ω)               | T=40±2°C<br>相对湿度 relative humidity: (90~95)% 96h  |
| 上限类别温度耐久性<br>Endurance at upper-limit temperature | ≤ ±(2%R+0.1Ω)               | U=0 T=125°C 96h   |

### ★ 降功耗曲线 Derating curve

