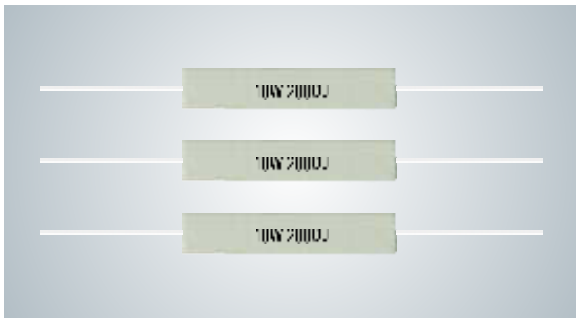


SQP 陶瓷线绕电阻 Ceramics Wirewound Resistor

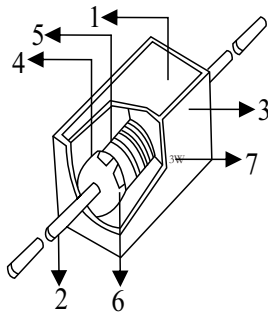


本体颜色: Body Color
 标准品: Standard (White 白色)
 标示: Marking
 文字: Alphanumeric (1W~100W)
 (根据客户要求提供相应标识)
 (According to the customer request to provide corresponding identification)

特性 Feature

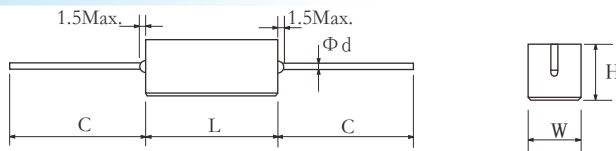
- I 完全不可燃和高度绝缘性的安全设计
 Compact type with safety design of non-flammability and insulation
- II 长期稳定性优良 Stable long life
- III 可提供低电感设计产品 Low inductance is available
- IV 符合欧盟RoHS要求 Products meet EU-RoHS

结构图 Construction



| | |
|---|---|
| 1 | 二氧化硅填充料 SiO ₂ materials |
| 2 | 镀锡铜线 Tinned copper lead wire |
| 3 | 陶瓷壳 Ceramic shell |
| 4 | 玻纤棒或陶瓷棒 Glass core or ceramic core of high Al ₂ O ₃ |
| 5 | 线绕或氧化膜层 Wire-wound or metal oxide film |
| 6 | 镀锡铁帽 Tinned iron cap |
| 7 | 标示 Making |

外形尺寸 Dimensions



| 规格 Type | 功率 Power | 尺寸 Dimensions (mm) | | | | |
|------------|-------------|--------------------|-------|-------|-------|----------|
| | | L ± 1.5 | W ± 1 | H ± 1 | C ± 3 | d ± 0.05 |
| SQP | 1W | 12.5 | 5.5 | 5.7 | 24.0 | 0.65 |
| | 2W | 18.0 | 6.5 | 6.5 | 33.0 | 0.75 |
| | 3W | 22.0 | 8.0 | 8.0 | 33.0 | 0.75 |
| | 5W | 22.0 | 10.0 | 9.50 | 33.0 | 0.75 |
| | 7W | 35.0 | 10.0 | 9.50 | 33.0 | 0.75 |
| | 10W | 48.0 | 10.0 | 9.50 | 33.0 | 0.75 |
| | 15W | 48.0 | 12.5 | 12.5 | 33.0 | 0.75 |
| | 20W | 63.0 | 14.0 | 14.0 | 33.0 | 0.75 |
| | 25W | 63.0 | 14.0 | 14.0 | 33.0 | 0.75 |
| | 30W | 75.0 | 18.0 | 18.0 | 35.0 | 0.80 |
| | 40W | 90.0 | 19.0 | 19.0 | 35.0 | 1.0 |
| | 50W | 90.0 | 19.0 | 19.0 | 35.0 | 1.0 |
| | 75W | 110 | 19.0 | 19.0 | 35.0 | 1.0 |
| 100W | 135 | 24.0 | 24.0 | 35.0 | 1.0 | |

参考规格 Reference Standards

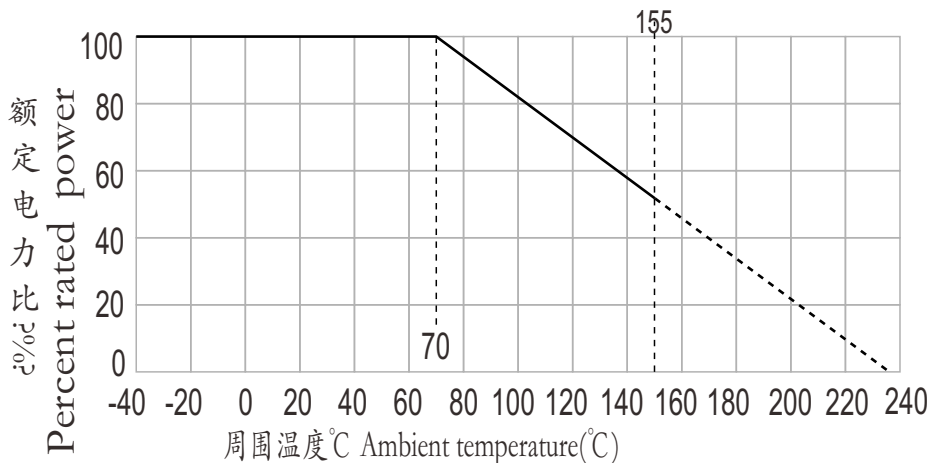
JIS C 5201-1

SQP 陶瓷线绕电阻 Ceramics Wirewound Resistor

功率、阻值范围与耐电压 Power And Resistance etc

| 额定功率 Rated Power(W) | 阻值范围 Resistance Range(Ω) | | 最高使用电压 Max Working Voltage | 最高负荷电压 Max Overload Voltage | 耐电压 Dielectric Withstanding Voltage | 温度系数 T.C.R |
|------------------------|--------------------------------------|---------------------|-------------------------------|--------------------------------|--|---|
| | 皮膜型 Metal oxide film type | 绕线型 Wire wound type | | | | |
| 1 | 100~39K | 0.01~1K | 150V | 500V | 1000V | 皮膜型 Metal oxide film MPS $\pm 350\text{PPM}/^\circ\text{C}$ 绕线型 Wirewound $\pm 100\text{PPM}/^\circ\text{C}$ |
| 2 | 100~39K | 0.01~2K | 350V | 750V | | |
| 3 | 100~39K | 0.01~3K | 500V | 1000V | | |
| 5 | 100~50K | 0.01~10K | 750V | 1000V | | |
| 7 | 100~100K | 0.05~20K | 1000V | 1500V | | |
| 10 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 15 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 20 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 25 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 30 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 40 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 50 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 75 | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 100 | 100~100K | 0.1~20K | 1000V | 1500V | | |

额定温度下降曲线图 Derating Curve



性能 Performance

| 试验项目 Test Items | 规格值 Performance Requirements | 试验方法 Test Methods(JIS C 5 201-1) |
|--------------------------------------|---------------------------------------|--|
| 电阻值 Resistance | 规定的误差值内 Within specified tolerance | 测量点从端盖10mm Measuring points are 10mm from the end cap |
| 温度系数 T.C.R. | 规定值内 Within specified T.C.R | 室温+100°C Room temperature+100°C |
| 短时间过负荷 Short time overload | $\pm (2\%R+0.05\Omega)$ | 10倍额定功率, 5秒 10 times the rated power for 5 seconds |
| 负荷寿命 Load life | $\pm (5\%R+0.1\Omega)$ | 额定电压 at 70°C for 1,000 hours 1.5hr ON/0.5hr OFF Cycles |
| 耐湿负荷寿命 Load life in humidity | $\pm (5\%R+0.1\Omega)$ | 额定电压 40°C, 95% RH, 1000小时 Rated voltage at 40°C, 95%RH for 1,000 hours |
| 温度循环 Temperature cycle | $\pm (1\%R+0.05\Omega)$ | 5 cycles for -25°C (30min); room temp.(30min) ~+85°C (30min) room temp.(30min) |
| 焊锡耐热 Resistance to soldering heat | $\pm (1\%R+0.05\Omega)$ | 260°C $\pm 5^\circ\text{C}$ for 10 seconds(焊锡槽) 350°C $\pm 10^\circ\text{C}$ for 3.5 seconds(手焊锡) |
| 绝缘电阻 Insulation resistance | > 100M Ω | 500V 绝缘测试1分钟 500V insulation test 1min. |

料号编号 ordering Information

例 example

| 型号Type | 额定功率 Rated Power | 误差值 Tolerance | 电阻值 (Ω) Resistance | 特殊码 Sperial code |
|--------|---|----------------------------|---|---|
| SQP | 01:1W 02:2W 07:7W 10:10W 25:25W 100:100W | J ± 5% F ± 1% G ± 2% | R100=0.1 1R00=1 10R0=10 1000=100 | A: 绕线型 wirewound type 陶瓷芯 Ceramic core B: 氧化皮膜型 Metal oxide film type C: 绕线型 wirewound type 玻纤芯 Glass core D: 无感型 Non-inductive type |

注意事项：我们还提供如下性能的产品设计，以满足你的需要，针对SQP产品。

- I 提供超小型尺寸产品设计和生产
 - II 提供无电感产品设计和制作
 - III 提供抗脉冲高压产品的设计和生
 - IV 提供高稳定性和可靠性的军用品与工业品的产品设计和生产
- 如需更多支持，请联系我们的工程师 kwx@kwxcom.com

To meet your request :

- We also provide products for below functions, for SQP etc.
- I Mini size design
 - II Non-inductive products design
 - III Anti-pulse high voltage design
 - IV Design resistor for High stability and reliable military supplies and industrial products .
- More details please contact with our engineer. kwx@kwxcom.com