

SQM 陶瓷电阻器 SQM CERAMICS RESISTOR

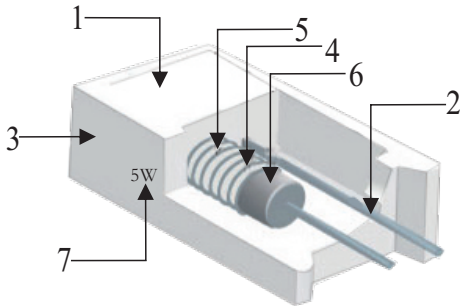


本体颜色: Body Color
 标准品: Standard (White 白色)
 标示: Marking
 文字: Alphanumeric (1W~100W)
 (根据客户要求提供相应标识)
 (According to the customer request to provide corresponding identification)

● 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

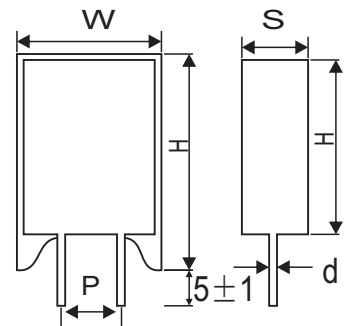
● 结构图 Construction



| | | |
|---|---------|--------------------------------|
| 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 |
| 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 | Marking |

● 外形尺寸 Dimensions

| 规格 Type | 功率 Power | 尺寸Dimensions(mm) | | | | |
|------------|-------------|------------------|------|------|-------|--------|
| | | H±1.5 | W±1 | S±1 | P±1.5 | d±0.05 |
| SQM | 1W | 10.0 | 10.0 | 5.2 | 5.0 | 0.65 |
| | 2W | 20.5 | 11.0 | 7.0 | 5.0 | 0.75 |
| | 3W | 25.0 | 12.0 | 8.0 | 5.0 | 0.75 |
| | 4W | 25.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 5W | 25.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 6W | 39.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 7W | 39.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 9W | 51.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 10W | 51.0 | 13.0 | 10.0 | 5.0 | 0.75 |
| | 10WS | 35.0 | 16.0 | 12.0 | 7.5 | 0.75 |
| | 10WB | 25.0 | 20.0 | 8.50 | 10.0 | 0.75 |
| | 15WS | 25.0 | 20.0 | 8.50 | 10.0 | 0.75 |
| | 15W | 40.0 | 20.0 | 10.0 | 10.0 | 0.80 |
| | 20W | 50.0 | 20.0 | 10.0 | 12.0 | 0.80 |



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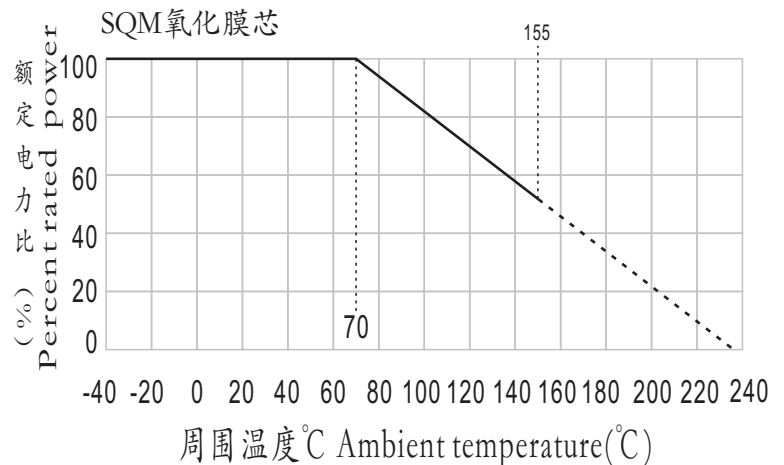
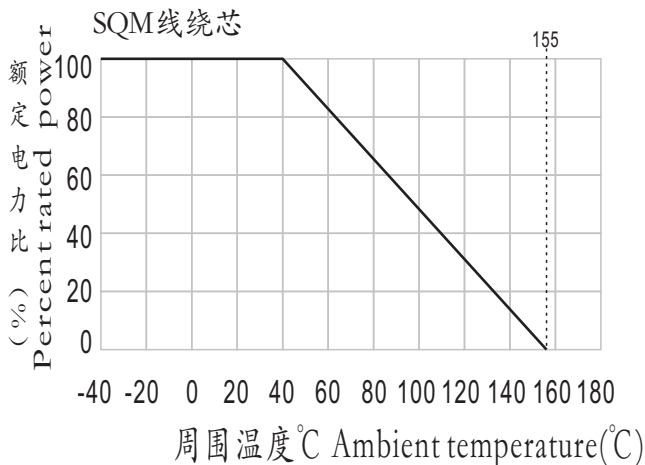
● 参考规格 Reference Standards

JIS C 5201-1

● 功率、阻值范围与耐电压 Power And Resistance etc

| 功率 Power | 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 | | | | |
| 1W | 100~39K | 0.01~1K | 150V | 500V | 1000V | 皮膜型 Metal oxide film $\pm 350\text{PPM}/^\circ\text{C}$ 绕线型 Wirewound $\pm 100\text{PPM}/^\circ\text{C}$ |
| 2W | 100~39K | 0.01~2K | 150V | 750V | | |
| 3W | 100~39K | 0.01~3K | 350V | 1000V | | |
| 4W | 100~39K | 0.01~3K | 350V | 1000V | | |
| 5W | 100~50K | 0.01~10K | 350V | 1000V | | |
| 6W | 100~50K | 0.01~10K | 350V | 1000V | | |
| 7W | 100~100K | 0.05~20K | 500V | 1500V | | |
| 9W | 100~100K | 0.05~20K | 500V | 1500V | | |
| 10W | 100~100K | 0.1~20K | 750V | 1500V | | |
| 10WS | 100~100K | 0.1~20K | 800V | 1500V | | |
| 10WB | 100~100K | 0.1~20K | 800V | 1500V | | |
| 15WS | 100~100K | 0.1~20K | 750V | 1500V | | |
| 15W | 100~100K | 0.1~20K | 1000V | 1500V | | |
| 20W | 100~100K | 0.1~20K | 1000V | 1500V | | |

● 额定温度下降曲线图 Derating Curve



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性能 Performance

| 试验项目 Test Items | 规格值 Performance Requirements | 试验方法 Test Methods(JIS C 5201-1) |
|--------------------------------------|---------------------------------------|---|
| 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℃ Room temperature+100℃ |
| 短时间过负荷 Short time overload | ±(1%R+0.05Ω) | 10倍额定功率, 5秒 10 times the rated power for 5 seconds |
| 负荷寿命 Load life | ±(5%R+0.1Ω) | Rated voltage at 70℃ for 1,000 hours 1.5hr ON/0.5hr OFF Cycles |
| 耐湿负荷寿命 Load life in humidity | ±(5%R+0.1Ω) | 额定电压40℃, 95% RH, 1000小时 Rated voltage at 40℃,95%RH for 1,000 hours |
| 温度循环 Temperature cycle | ±(1%R+0.05Ω) | 5 cycles for -25℃ (30min);room temp.(30min) ~+85℃ (30min)room temp.(30min) |
| 焊锡耐热 Resistance to soldering heat | ±(1%R+0.05Ω) | 260℃±5℃ for 10 seconds(焊锡槽) 350℃±10℃ for 3.5 seconds(手焊锡) |
| 绝缘电阻 Insulation resistance | > 100MΩ | 500V绝缘测试1分钟 500V insulation test 1min. |

料号编号 Ordering Information

例 example

| SQM | 01 | J | R100 | A |
|--------|---|----------------------------|---|---|
| 型号Type | 额定功率 Rated Power | 误差值 Tolerance | 电阻值(Ω) Resistance | 特殊码 Serial code |
| SQM | 01:1W 02:2W 07:7W 10:10W 20:20W | J ± 5% F ± 1% G ± 2% | R100=0.1 1R00=1 10R0=10 1000=100 | A1绕线型 A1Wirewound type A2氧化皮膜型 A2Metal oxide film type A3绕线玻纤型 A3Wirewound Glass core type A4无感型 A4Non-inductive |

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:

- 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kh@kwxcom.com

To meet your request :

We also provide products for below functions:

- 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. kh@kwxcom.com