

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

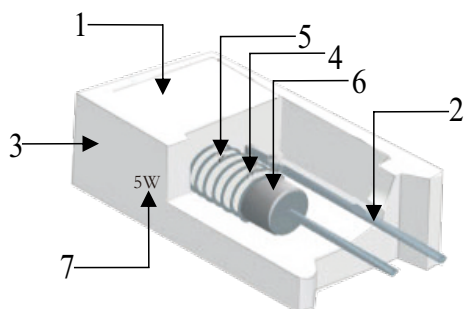
III 可提供低电感设计产品

Low inductance is available

IV 符合欧盟RoHS要求

Products meet EU-RoHS

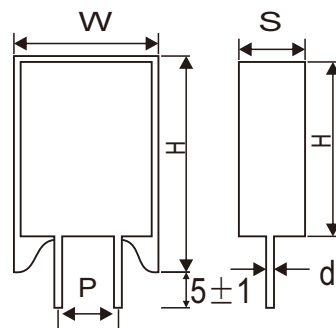
结构图 Construction



1	二氧化硅填充料	SiO2 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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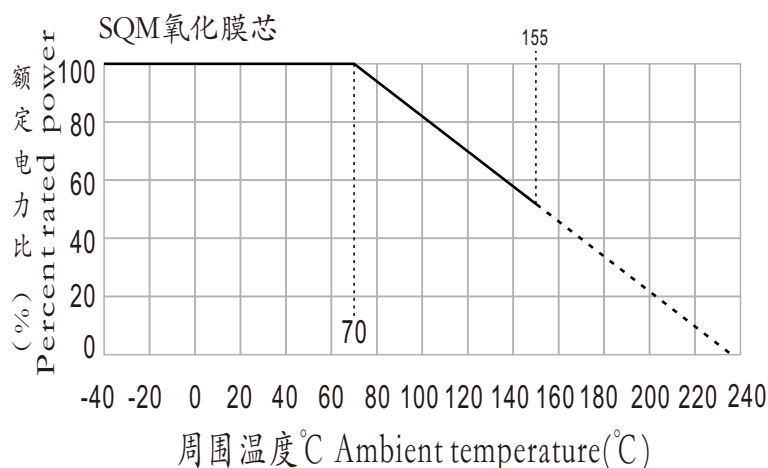
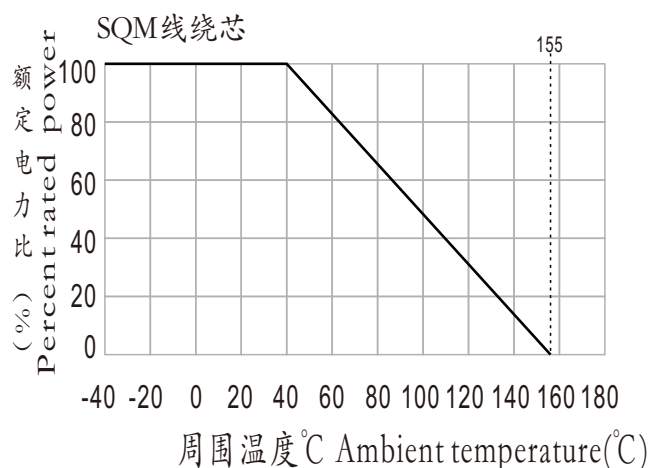
● 参考规格Reference Standards

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	$\pm(1\%R+0.05\Omega)$	10倍额定功率, 5秒 10 times the rated power for 5 seconds
负荷寿命 Load life	$\pm(5\%R+0.1\Omega)$	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	$\pm(5\%R+0.1\Omega)$	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	$\pm(1\%R+0.05\Omega)$	5 cycles for -25℃ (30min); room temp.(30min) ~+85℃ (30min) room temp.(30min)
焊锡耐热 Resistance to soldering heat	$\pm(1\%R+0.05\Omega)$	260℃ $\pm$ 5℃ for 10 seconds(焊锡槽) 350℃ $\pm$ 10℃ 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

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 $\pm 5\%$ F $\pm 1\%$ G $\pm 2\%$	R100=0.1 Ω 1R00=1 Ω 10R0=10 Ω 100R0=100 Ω 2KR0=2K Ω	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kw@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. kw@kwxcom.com