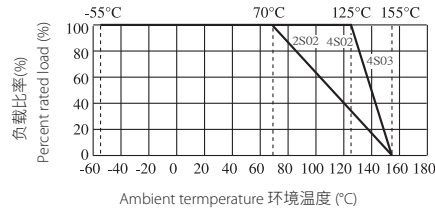


### Feature (特性)

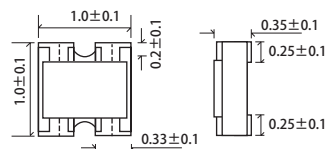
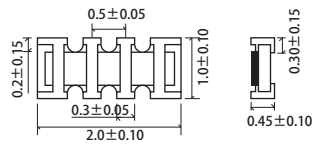
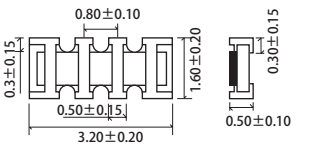
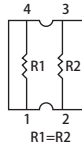
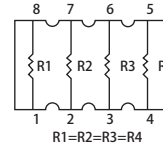
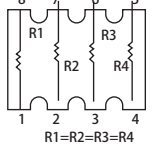
- Anti-Sulfuration 抗硫化
- Suitable for reflow & wave soldering 适合波峰焊与回流焊
- Application car, power 适用于汽车、电源等
- AEC-Q200 Qualified



### Derating Curve (降功率曲线)



### Dimension (mm) & Conformation [尺寸(mm)与结构]

Type 类型	2S02	4S02	4S03
Size 尺寸	0402x2	0402x4	0603x4
Dimension 规格 (mm)			
Equivalent Circuit Diagram 等效电路图	 <p>R1=R2</p>	 <p>R1=R2=R3=R4</p>	 <p>R1=R2=R3=R4</p>

### Characteristics (特性)

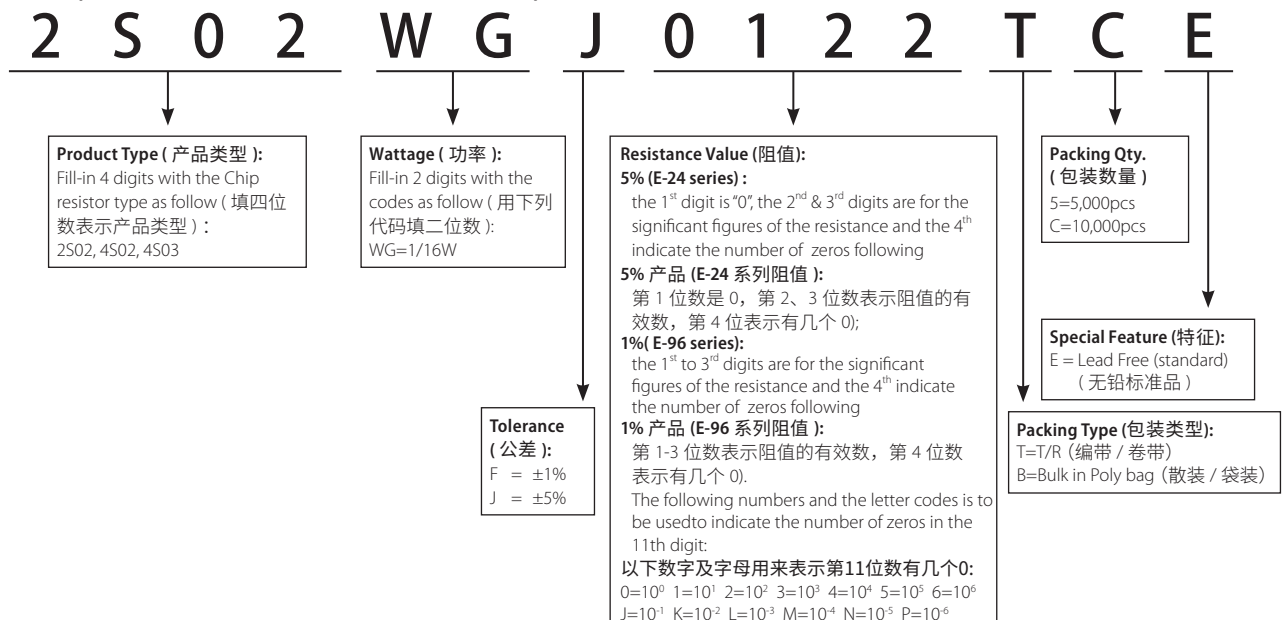
Type 类型	Power Rating 额定功率	Max. Working Voltage 最大工作电压	Max. Overload Voltage 最大过负荷电压	Resistance Range 阻值范围	Dielectric Withstanding Voltage 绝缘耐压	Tolerance 公差	Operating Temperature 工作温度范围	Resistance Value of Jumper 零欧姆电阻阻值	Rated Current of Jumper 零欧姆电阻额定电流	T.C.R 温度系数 (PPM/°C)
2S02				10Ω~1MΩ	100					±200
4S02	1/16W	50V	100V	10Ω~1MΩ	100	±1%, ±5%	-55°C~+155°C	<50mΩ	1A	±200
4S03				1Ω~1MΩ	300					≥10Ω:±200 <10Ω:±400

### Performance Specification (性能)

Test Item 试验项目	Reference standard 参考标准	Test Methods 试验方法	Evaluation Criteria 判定标准
Temperature Coefficient of Resistance 温度系数	MIL-STD-202 Method 304	Measure between -55°C ~+155°C 测定范围: -55°C ~+155°C	$1\Omega \leq R \leq 10\Omega: \pm 200\text{ppm}/^\circ\text{C}$ $10\Omega < R \leq 10\text{M}\Omega: \pm 100\text{ppm}/^\circ\text{C}$
Pre- and Post-Stress Electrical Test (Short time Overload) 短時間過負荷	AEC-Q200 TEST 1 IEC60115 4.13	2.5x Rated voltage or Max. Overload Voltage whichever is lower for 5 seconds, then check the resistance. 2.5 倍额定电压或最大过负荷电压 (取其低者), 持续 5 秒钟, 然后测阻值。	$\pm(2.0\%+0.05\Omega)$
Biased Humidity 偏置湿度	AEC-Q200 TEST 7 MIL-STD-202 Method 103	1000 hours 85°C/85%RH. Note: Specified conditions:10% of operating power.Measurement at 24±4 hours after test conclusion. 在温度 85°C, 湿度 85% 的条件下放置 1000 小时。注意: 指定条件: 工作功率的 10%, 试验结束后 24±4 小时内进行测试。	$\pm(3.0\%+0.05\Omega)$
Operational Life 工作寿命	AEC-Q200 TEST 8 MIL-STD-202 Method 108	Condition D Steady State TA=125°C at rated power.Measurement at 24±4 hours after test conclusion. 条件 D, 稳定状态 TA=125°C, 额定功率。实验结束后 24±4 小时内进行测试。	$\pm(3.0\%+0.1\Omega)$
Soldering Heat 耐焊接热	AEC-Q200 TEST 15 MIL-STD-202 Method 210	Condition B No pre-heat of samples. Note: Single Wave Solder - Procedure 2 for SMD and Procedure 1 for Leaded with solder within 1.5mm of device body. 条件 B, 样品不进行预热。注意: 单一波峰焊 - 表面贴装元件按程序 2: 引脚产品按程序 1 进行焊接, 浸入器件本体的 1.5mm 的深度	$\pm(1.0\%+0.05\Omega)$
Solderability 可焊性	AEC-Q200 TEST 18 J-STD-002	For both Leaded & SMD. Electrical test not required.Magnification 50 X. Conditions:Leaded: Method A @ 235°C, category 3.SMD: a) Method B, 4 hrs @ 155°C dry heat @ 235°C b) Method B @ 215°C category 3. c) Method D category 3 @ 260°C. 用于引脚和表面贴装元件, 不需要电气测试。放大倍数 50 倍。 测试条件: 引脚产品: 方法 A@235°C, 类别 3 表面贴装元件: a) 方法 B,4 小时 @155°C干热 @235°C . b) 方法 B@215°C类别 3. c) 方法 D 类别 3@260°C .	Coverage must be over 95%.
Board Flex 弯曲	AEC-Q200 TEST 21 AEC-Q200-005	60 sec minimum holding time. 至少 2mm, 60 秒的支撑时间	$\pm(1.0\%+0.05\Omega)$
Anti-Sulfurized test 硫化测试		Soaked in industrial oil with sulfur substance 3.5% contained 105°C ±3°C 500h 工业用油含硫磺成份 3.5%, 105°C±3°C, 500H	$\pm(5\%+0.05\Omega)$
Anti-Sulfurized test 硫化测试	ASTMB-809-95	Sulfur (Saturated vapor) 硫 (饱和蒸汽) • Test temp. 测试温度: 50±2°C • Relative humidity 相对湿度: 86~90%RH • Test time 测试时长: 1000h	$\pm(1\%+0.05\Omega)$

### Ordering Procedure (Example: 2S02 1/16W ±5%1.2K T/R-10000)

订购方式 (例如: 2S02 1/16W ±5%1.2K T/R-10000)



Remark: For more details, please check page 152, Part No. System. 注: 更多细节详见 P152 标准料号系统。