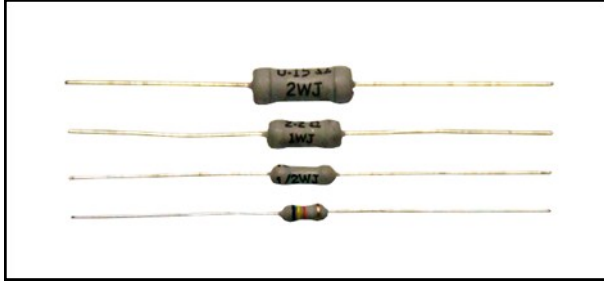


POWER TYPE

RSU 氧化金属膜电阻器
METAL OXIDE FILM RESISTOR (Standard Type)

RSS 小型氧化金属膜电阻器
METAL OXIDE FILM RESISTOR (Small Type)

RSP 超小型氧化金属膜电阻器
METAL OXIDE FILM RESISTOR (Super Small Type)



- 涂装颜色 : Coating Color
- 标准品: Standard Type (Gray)
- 小型品: Small Type (Pink)
- 超小型品 : Super Small Type (Pink)
- 标示 : Marking
- 色码 : Color Code (1/4W、S1/2W)
- 文字 : Alphanumeric (1/2W~S5W)

特性 Feature

- ◎ 使用不燃性涂料, 具不燃与绝缘之安全特性(UL94 V-0)
- ◎ Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base.
(Equivalent to UL94 V-0)
- ◎ 小型化能高密度封装
- ◎ Small size are good for high density application.
- ◎ 高信赖性
- ◎ High reliability.
- ◎ 耐热性佳, 表面温升低
- ◎ High thermal stability and low surface temperature rise.
- ◎ 产品符合欧盟 RoHS 要求
- ◎ Products meet EU-RoHS.

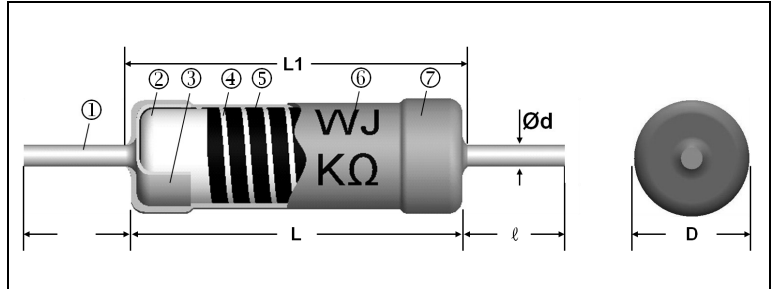
参考规格 Reference standards

- JIS C 5201-1

额定 Ratings

| Rated Power (W) | 阻值范围 Resistance Range (Ω) | | | 最高使用电压 Max. Working Voltage | 最高过负荷电压 Max. Overload Voltage | 耐电压 Dielectric Withstanding Voltage | 温度系数 T.C.R. | 包装 Taping/Ammo, Forming/Bulk pack (pcs) | | | | | |
|-----------------|---------------------------|------------|------------|-----------------------------|-------------------------------|-------------------------------------|---|---|-----|------|------|------|------|
| | F±1% (E96) | G±2% (E24) | J±5% (E24) | | | | | A52 | A64 | A73 | FT | YT | L |
| 1/4, S1/2, P1 | 0.1 ~ 910K | | | 250V | 500V | 250V | F±1%: ±100ppm/°C G±2%: ±200ppm/°C J±5%: ±350ppm/°C | 2500 | — | — | 2000 | — | 2500 |
| 1/2, S1, P2 | 0.1 ~ 33K | 0.1 ~ 470K | | | | | | 2000 | — | — | 2000 | 2000 | 2500 |
| 1, S2, P3 | 0.1 ~ 33K | 0.1 ~ 750K | | 350V | 700V | 350V | 1000 | 1000 | — | 1000 | 1000 | 1000 | |
| 2, S3, P5 | 0.1 ~ 33K | 0.1 ~ 330K | | | | | 500 | 500 | 500 | — | 1000 | 1000 | |
| 3, S5 | 0.1 ~ 33K | 0.1 ~ 100K | | 500V | 1000V | 500V | — | — | — | — | — | 200 | |

结构图 Construction



| | | | | | |
|---|-----|------------------------|---|------|-----------------------|
| 1 | 端子线 | Lead wire | 5 | 导电皮膜 | Conductive film |
| 2 | 瓷棒 | Ceramic base | 6 | 标示 | Marking or color code |
| 3 | 铁帽 | Cap | | | |
| 4 | 切割线 | Helical cutting groove | 7 | 绝缘涂料 | Insulation coat |

外型尺寸 Dimensions

| Rated Power (W) | Dimensions (mm) | | | | | Weight (g) (1000pcs) |
|-----------------|-----------------|---------|---------|-------------------------|------|-------------------------|
| | L | L1 Max. | D | Ød | ℓ | |
| 1/4, S1/2, P1 | 6.0±0.3 | 7 | 2.4±0.1 | 0.6±0.05 P2:0.8±0.05 | 28±2 | 210 |
| 1/2, S1, P2 | 9±0.5 | 11 | 3.0±0.5 | | 28±3 | 285 |
| 1, S2, P3 | 12±1 | 15 | 4.0±0.5 | 0.8±0.05 | 38±3 | 728 |
| 2, S3, P5 | 16±1 | 18 | 5.5±0.5 | | | 1380 |
| 3, S5 | 25±1 | 28 | 8.5±0.5 | | | 3768 |

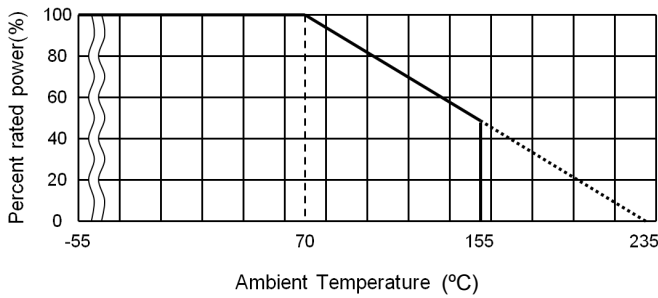
料号编码 Type composition

例 Example

| RS | U | 14 | J | R100 | A520 | NH |
|------------|----------------|---------------------|------------------|----------------------|--------------------|--------------------|
| 型名 Type | 品名 Size | 额定功率 Rated Power | 误差值 Tolerance | 电阻值(Ω) Resistance | 二次加工 Forming | 端子线 Lead Wire |
| | U: Standard | 14:1/4W | F±1% | R100=0.1 | See table below | 热镀线 Heat plated |
| | S: Small | 12:1/2W | G±2% | 1R00=1 | | |
| | P: Super small | 01:1W | J±5% | 10R0=10 | | |
| | | 02:2W | | 1000=100 | | |
| | | 03:3W | | 1001=1K | | |
| | | 05:5W | | 1002=10K | | |
| | | | | 1003=100K | | |

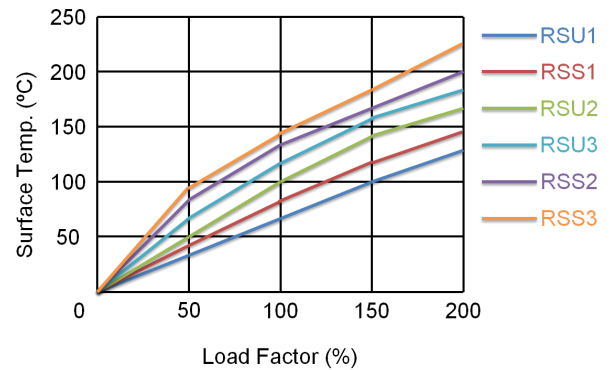
■ 额定温度下降曲线图 Derating curve

例 Example



■ 表面温度上升

Surface Temperature Rise Vs. Loaded Power



■ 二次加工对应表 Taping & Forming Matrix

| Rated Power (W) | Taping | | | Radial Taping | | L Forming | | | | | C Forming | | | | F Forming | | | | M Forming | | | D Forming | | |
|-----------------|--------|-----|-----|---------------|----|-----------|-------|-----|-----|-----|-----------|-----|-----|-----|-----------|-----|-----|-----|-----------|-----|-----|-----------|-----|-----|
| | A52 | A64 | A73 | FT | YT | L10 | L12.5 | L15 | L20 | L30 | C12.5 | C15 | C20 | C30 | FA5 | FB5 | FC5 | FD5 | M12.5 | M15 | M20 | D12.5 | D15 | D20 |
| 1/4,S1/2,P1 | ○ | - | - | ○ | - | ○ | - | - | - | - | - | - | - | - | - | ○ | - | - | - | - | - | - | - | - |
| 1/2,S1,P2 | ○ | - | - | ○ | ○ | - | ○ | - | - | - | ○ | - | - | - | ○ | ○ | ○ | ○ | ○ | - | - | - | ○ | - |
| 1,S2,P3 | ○ | - | - | ○ | ○ | - | - | ○ | - | - | - | ○ | - | - | ○ | ○ | ○ | ○ | - | ○ | - | - | ○ | - |
| 2,S3,P5 | ○ | ○ | ○ | - | ○ | - | - | - | ○ | - | - | - | ○ | - | ○ | ○ | ○ | ○ | - | - | ○ | - | - | ○ |
| 3,S5 | - | - | - | - | - | - | - | - | - | ○ | - | - | - | ○ | - | - | - | - | - | - | - | - | - | - |

■ 性能 Performance

| 试验项目 Test Items | 规格值 Performance Requirements | 试验方法 Test Methods |
|--------------------------------------|---------------------------------------|---|
| 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 | ±(1%+0.05Ω) | 6.25 倍额定功率, 5 秒 6.25 times the rated power for 5 seconds |
| 负荷寿命 Load life | ±(5%+0.1Ω) | Rated voltage at 70°C for 1,000 hours 1.5hr ON / 0.5hr OFF Cycles |
| 耐湿负荷寿命 Load life in humidity | ±(5%+0.1Ω) | 10% rate power load 40°C, 95% RH for 1,000 hours; 1.5h ON / 0.5h OFF cycle |
| 耐湿性 Moisture resistance | ±(1%+0.05Ω) | 40°C · 95% RH · 240 小时 40°C, 95% RH for 240 hours |
| 温度循环 Temperature cycle | ±(1%+0.05Ω) | 5 cycles for -25°C (30min) : room temp. (30min) ~ +85°C (30min) room temp. (30min) |
| 断续过负荷 Intermittent overload | ±(5%+0.1Ω) | Applicable more than 100Ω : Rated voltage ×3 1s ON / 25s OFF , 10,000 cycles |
| 焊锡耐热 Resistance to soldering heat | ±(1%+0.05Ω) | 260°C ± 5°C for 10 seconds (焊锡槽) 350°C ± 10°C for 3.5 seconds (手焊锡) |
| 绝缘电阻 Insulation resistance | >1,000MΩ | 500V 绝缘测试 1 分钟 500V insulation test 1min. |

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