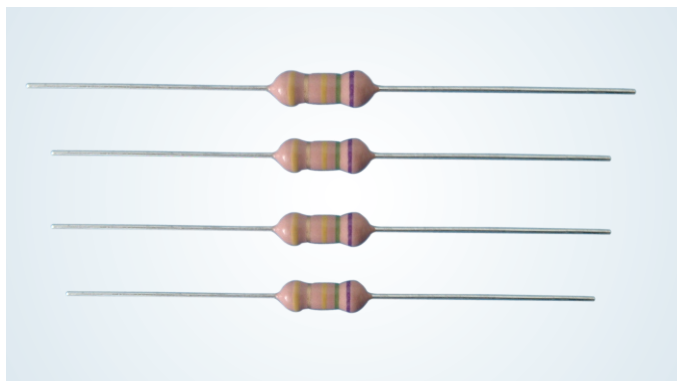


DISCHARGE PATH RESISTOR

MGR 金属釉电阻器 METAL GLAZE RESISTOR (STANDARD TYPE)

MGS 小型金属釉电阻器 METAL GLAZE RESISTOR (SMALL TYPE)



涂料颜色: Coating Color

标准品: Standard Type(灰色G ray)

小型品: Small Type(砖红色Pink)

标示: Marking

色环: Color Code

文字: Alphanumeric(1/2W~S3W)

(根据客户要求提供相应标识)

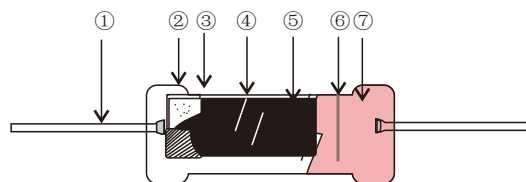
(Can provide corresponding identification according to the customer request)

特性 Feature

(1)使用不燃性涂料, 具有不燃性与绝缘之安全特性 (UL94 V-0) Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base.(Equivalent to UL94 V-0)

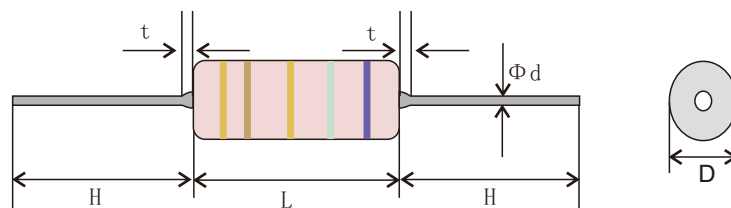
(2)产品符合欧盟RoHS要求。Products meet EU-RoHS requirements.

结构图 Construction



| | | | | | | |
|-----------|-----|--------------|------------------------|------------------|-----------------------|-----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 端子线 | 线帽 | 瓷棒 | 切割线 | 金属釉皮膜 | 标示 | 绝缘涂料 |
| lead wire | cap | ceramic base | Helical cutting groove | Metal glaze film | marking or color code | insulation coat |

外形尺寸 Dimensions



| 型号 Type | 功率 Power (w) | 尺寸Dimensions(mm) | | | | | Weight(g) (1000pcs) |
|---------------|--------------------|------------------|-------|---------|--------------|----------|------------------------|
| | | L | t Max | D | Φd | H | |
| MGR1/6,MGS1/4 | 1/6W,1/4WS | 3.3±0.3 | 1.5 | 1.8±0.2 | 0.45±0.05 | 28.0±2.0 | 120 |
| MGR1/4,MGS1/2 | 1/4W,1/2WS | 6.0±0.3 | 2.0 | 2.4±0.1 | 0.60±0.05 | 28.0±2.0 | 218 |
| MGR1/2,MGS1 | 1/2W,1WS | 9.0±0.5 | 2.5 | 3.3±0.5 | 0.6/0.8±0.05 | 30.0±3.0 | 320 |
| MGR1,MGS2 | 1W,2WS | 12±1.0 | 2.5 | 4.5±0.5 | 0.80±0.05 | 38.0±3.0 | 780 |
| MGR2,MGS3 | 2W,3WS | 16±1.0 | 2.5 | 5.5±0.5 | | | 1450 |
| MGR3,MGS5 | 3W,5WS | 17.5±1.0 | 2.5 | 6.5±0.5 | | | 1560 |
| MGR5,MGS6 | 5W,6WS | 24.0±1.0 | 2.5 | 8.0±0.5 | | | 1700 |

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参考规格 Reference Standards

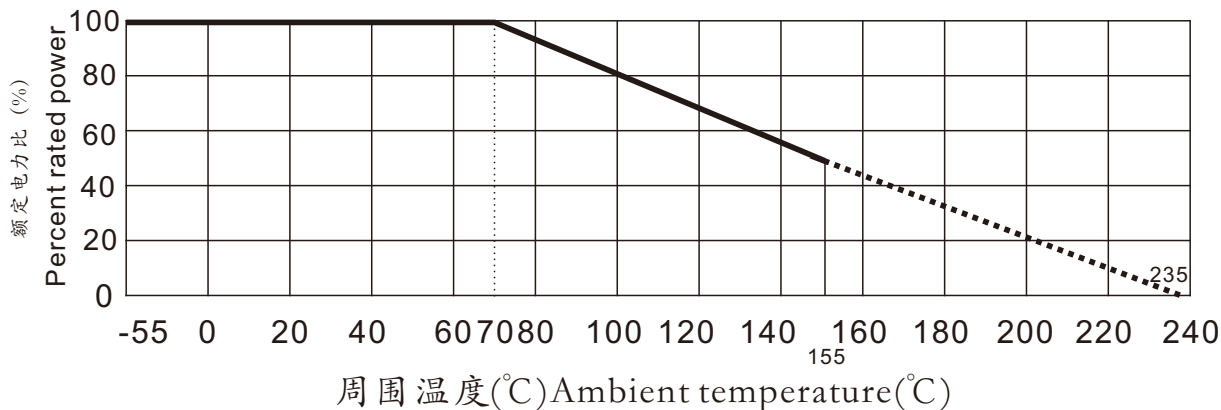
JIS C 5201-1

功率、阻值范围与耐电压 Power And Resistance etc

| 型号 Type | 功率 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 The highest load voltage | 耐电压 Dielectric Withstanding Voltage | 温度系数 T.C.R |
|---------------|-------------------------|--------------------------|---------------|---------------|-------------------------------|-------------------------------------|----------------------------------------|----------------------------------------------------------------|
| | | F±1% (E96) | G±2% (E24) | J±5% (E24) | | | | |
| MGR1/6,MGS1/4 | 1/6W,1/4WS | 0.1K~<100M | | | 400V | 600V | 300V | F±1% ±100ppm/°C G±2% ±200ppm/°C J±5% ±300ppm/°C |
| MGR1/4,MGS1/2 | 1/4W,1/2WS | | | | 1000V | 1600V | | |
| MGR1/2,MGS1 | 1/2W,1WS | | | | 1500V | 3500V | | |
| MGR1,MGS2 | 1W,2WS | | | | 2000V | 5000V | | |
| MGR2,MGS3 | 2W,3WS | | | | 2500V | 6000V | | |
| MGR3,MGS5 | 3W,5WS | | | | 3000V | 8000V | | |
| MGR5,MGS6 | 5W,6WS | | | | 4000V | 10000V | | |

额定温度下降曲线图 Derating Curve

例 Example



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 | 二次加工 Forming | 端子线 Lead Wire |
|---------------------------|----------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|-----------------|-----------------------|
| MGR:Standard MGS:Small | 16:1/6W 14:1/4W 12:1/2W 01:1W 02:2W 03:3W 05:5W 06:6W | F±1% G±2% J±5% | 10R0=10 1000=100 1001=1K 1002=10K 1003=100K 1004=1M 1005=10M | | 电镀线 Electro plated |

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● 性能 Performance

| 试验项目 Test Items | 规格值 Performance Requirements | 规格值 试验方法 |
|--------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 电阻值 Resistance | 规定的误差值内 Within specified tolerance | Test Methods(JIS C 5201-1) 测量点从端盖10mm |
| 温度系数 T.C.R. | 规定值内 Within specified T.C.R | Measuring points are 10mm from the end cap 室温+100°C Room temperature+100°C |
| 短时间过负荷 Short time overload | $\pm(1\%+0.05\Omega)$ | 6.25倍额定功率, 5秒 6.25times the rated power for 5 seconds |
| 负荷寿命 Load life | $\pm(1.5\%+0.1\Omega)$ | 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 | $\pm(5\%+0.1\Omega)$ | 额定电压40°C, 95% RH, 1000小时 Rated voltage at 40°C, 95%RH for 1,000 hours |
| 耐湿性 Moisture resistance | $\pm(1\%+0.05\Omega)$ | 40°C, 95% RH, 240小时 40°C, 95%RH for 240 hours |
| 温度循环 Temperature cycle | $\pm(1\%+0.05\Omega)$ | 5 cycles for -25°C (30min); room temp.(30min) ~+85°C (30min) room temp.(30min) |
| 断续过负荷 Intermittent overload | $\pm(5\%+0.1\Omega)$ | Applicable more than 100Ω; Rated voltage*3 1s ON/25s OFF, 10,000 cycles |
| 焊锡耐热 Resistance to soldering heat | $\pm(1\%+0.05\Omega)$ | 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 | $\pm(1\%+0.05\Omega)$ | 500V绝缘测试1分钟 500V insulation test 1min. |
| 不燃性 Flameproof | 无燃烧现象 No evidence of flaming or arcing | AC voltage of 2,4,8,16,32 times the power rating for 1min. ($V \leq 4$ times max.working voltage) |
| 脉冲测试 Pulse withstanding voltage |  | <p>The following discharge cycle is repeated in the circuit of the left fig. 2.5 sec.ON 2.5 sec.OFF 50 cycles. With following DC pulse test voltage.</p> <p>Pulse voltage: 1/6W, S1/4W: (3KV). $\geq 1/4W < 100K$: (3KV) // $100K \sim 620K$: (5KV) $> 620K$: (10KV) UL-0.01μF Non-UL 0.001μF</p> |