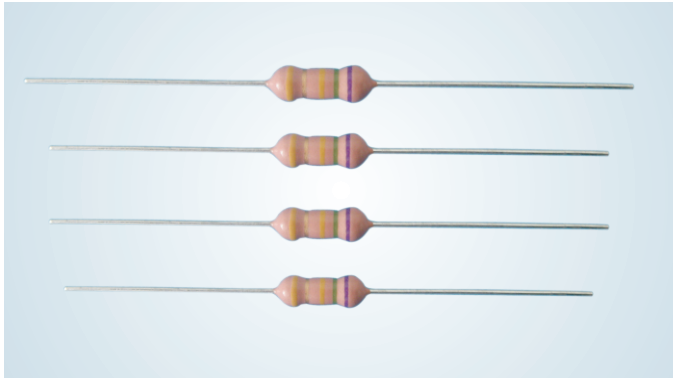


# DISCHARGE PATH RESISTOR

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

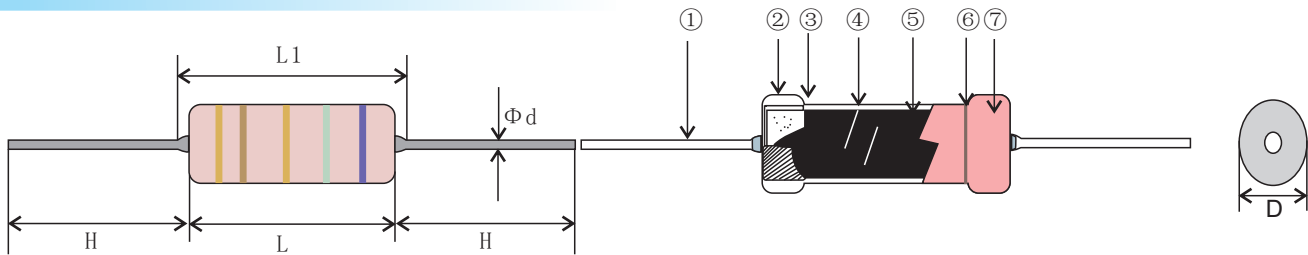
色环: Color Code

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)

## 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

## 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.

## 产品认证 Approvals Awarded

UL 1412 File NO.E341249

## 参考规格 Reference Standards

JIS C 5201-1

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

Rated power(W)	阻值范围 Resistance Range(Ω)			最高使用电压 Max Working 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	10Ω~<100M			300V	300V	F±1% ±100PPM/°C G±2% ±200PPM/°C J±5% ±200PPM/°C
MGR1/4, MGS1/2				1600V		
MGR1/2, MGS1				3500V	700V	
MGR1, MGS2				7000V		
MGR2, MGS3				10000V		

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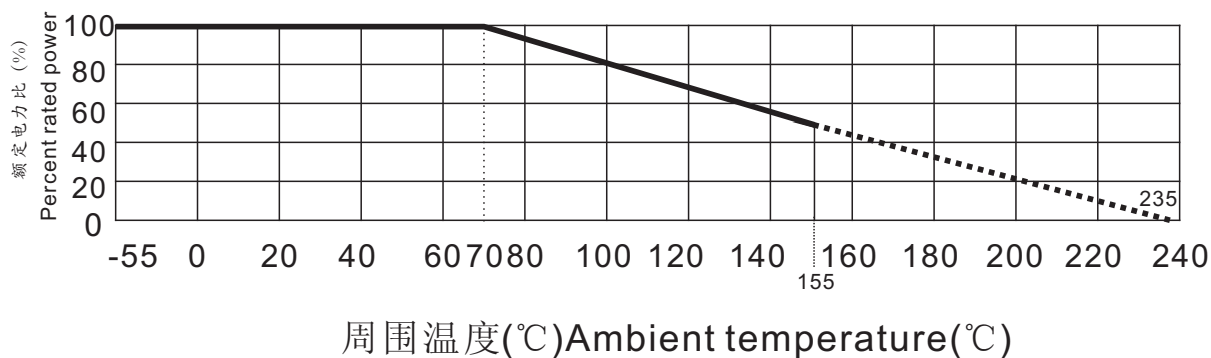
MGS 小型金属釉电阻器 METAL GLAZE RESISTOR (SMALL TYPE)

## 外形尺寸 Dimensions

Rated Power(W)	Dimensions(mm)					Weight(g) (1000pcs)
	L	L1 Max	D	Φd	H	
MGR1/6, MGS1/4	3.3±0.3	4	1.8±0.2	0.45±0.05	28±2	120
MGR1/4, MGS1/2	6.0±0.3	7	2.4±0.1	0.6±0.05	28±2	218
MGR1/2, MGS1	9±0.5	11	3.3±0.5	0.6/0.8±0.05	30±3	320
MGR1, MGS2	12±1	15	4.5±0.5	0.8±0.05	38±3	780
MGR2, MGS3	16±1	18	5.5±0.5			1450

## 额定温度下降曲线图 Derating Curve

例 Example



## 料号编号 Ordering Information

例 example

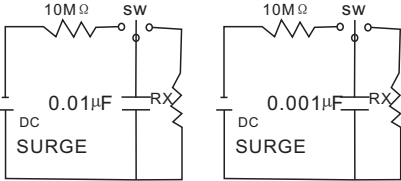
型号 Type	额定功率 Rated Power	误差值 Tolerance	电阻值 (Ω) Resistance	二次加工 Forming	端子线 Lead Wire
MGR: Standard MGS: Small	16: 1/6W 14: 1/4W 12: 1/2W 01: 1W 02: 2W 03: 3W	F±1% G±2% J±5%	10R0=10 1000=100 1001=1K 1002=10K 1003=100K 1004=1M 1005=10M		电镀线 Electro plated

## DISCHARGE PATH RESISTOR

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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	$\pm(1\%+0.05\Omega)$	6.25倍额定功率, 5秒 6.25times the rated power for 5 seconds
负荷寿命 Load life	$\pm(1.5\%+0.1\Omega)$	额定电压 70℃ 1,000 小时 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℃, 95% RH, 1000 小时 Rated voltage at 40℃, 95%RH for 1,000 hours
耐湿性 Moisture resistance	$\pm(1\%+0.05\Omega)$	40℃, 95% RH, 240 小时 40℃, 95%RH for 240 hours
温度循环 Temperature cycle	$\pm(1\%+0.05\Omega)$	5 cycles for -25℃ (30min); room temp.(30min) ~+85℃ (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℃±5℃ for 10 seconds(焊锡槽) 350℃±10℃ for 3.5 seconds(手焊锡)
绝缘电阻 Insulation resistance	$\geq 1000M\Omega$	500V 绝缘测试 1 分钟 500V insulation test 1 min.
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 1 min. ( $V \leq 4$ times max. working voltage)
脉冲测试 Pulse withstanding voltage	$\pm 20\%$ 	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. 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