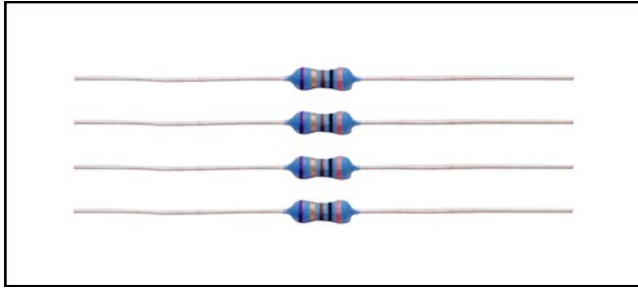


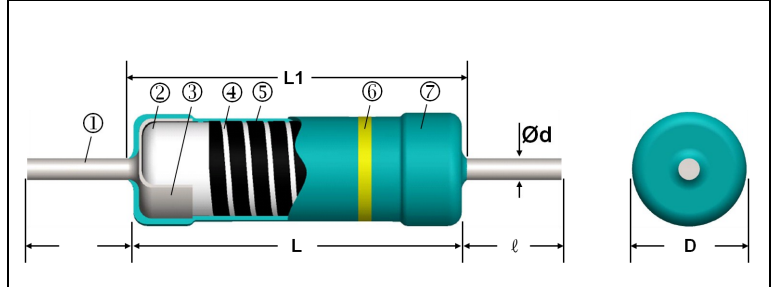
POWER TYPE

RPU 金属皮膜精密电阻器
METAL FILM PRECISION RESISTOR (Standard Type)

RPS 小型金属皮膜精密电阻器
METAL FILM PRECISION RESISTOR (Small Type)



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

涂装颜色：Coating Color

≤ 1/6W Blue epoxy paint

≤ 1/6W 蓝色环氧树脂涂料

≥ 1/4W RPU/ gray; RPS/ pink

≥ 1/4W RPU / 灰色； RPS / 粉红色

标示：Marking

色环：Color Code (≤ S1/2)

文字：Alphanumeric (1/2-S3)

外型尺寸 Dimensions

Rated Power (W)	Dimensions (mm)					Weight (g) (1000pcs)
	L	L1 Max.	D	Ød	l	
1/8,S1/4	3.5±0.5	5	1.7±0.3	0.45±0.05	27±3	110
1/4,S1/2	6.0±0.5	7	2.3±0.3	0.6±0.05	27±3	210
1/2,S1	9±1	11	3.2±0.5	0.6±0.05	27±3	285
1,S2	12±1	15	4.0±0.5	0.8±0.05	38±3	728
2,S3	16±1	18	5.5±0.5	0.8±0.05	38±3	1380

料号编码 Type composition

例 Example

RP	U	14	F	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	18:1/8W	F±1%	10R0=10	See table below	热镀线 Heat plated
	S: Small	14:1/4W	D±0.5%	1000=100		
		12:1/2W	B±0.1%	1001=1K		
		01:1W		1002=10K		
		02:2W		1003=100K		

参考规格 Reference standards

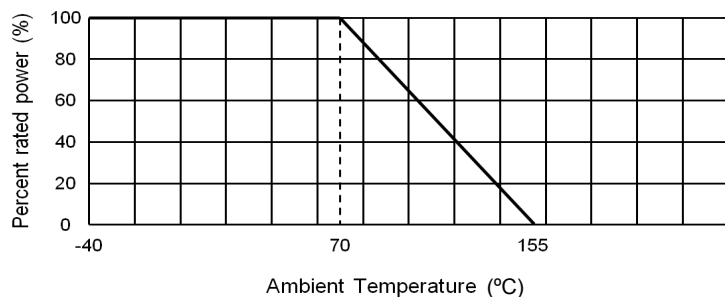
● JIS C 5201-1

额定 Ratings

Rated Power (W)	阻值范围 Resistance Range (Ω) 0.01%、0.02%、0.05%、0.1%、1%	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)					
						A26	A52	A64	FT	YT	L
1/8, 1/6	10Ω~100K	200V	250V	300V	± 100ppm/°C	5000	—	—	—	—	—
1/4, S1/2		250V				—	2500	—	2000	—	—
1/2, S1			350V			—	2000	—	1000	2000	2500
1, S2			350V			—	1000	1000	1000	1000	1000
2, S3		700V				—	500	500	—	1000	1000

■ 额定温度下降曲线图 Derating curve

例 Example



■ 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			
	A26	A52	A64	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	
1/8,1/6	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4,S1/2	-	○	-	○	-	○	-	-	-	-	-	-	-	-	○	○	○	○	-	-	-	-	-	-	-
1/2,S1	-	○	-	○	○	-	○	-	-	-	○	-	-	-	○	○	○	○	○	-	-	○	-	-	-
1,S2	-	○	○	○	○	-	-	○	-	-	-	○	-	-	○	○	○	○	-	○	-	-	○	-	-
2,S3	-	○	○	-	○	-	-	-	○	-	-	-	○	-	○	○	○	○	-	-	○	-	-	-	○

■ 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	±(1.5%+0.05Ω)	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	±(1%+0.05Ω)	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.