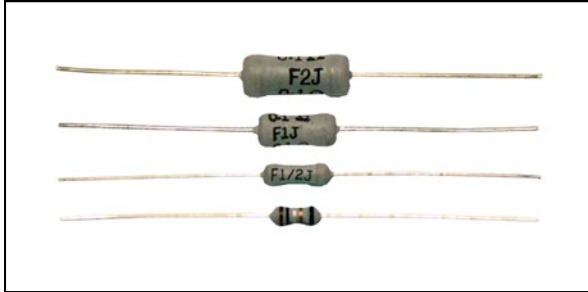


# FUSING RESISTOR

**RFU** 保险丝电阻器  
FUSIBLE RESISTOR (Standard Type)

**RFS** 小型保险丝电阻器  
FUSIBLE RESISTOR (Small Type)



- 涂料颜色 : Coating Color
- 标准品 : Standard Type (Gray)
- 小型品 : Small Type (Pink)
- 标示 : Marking
- 色环 : Color Code (1/6W、1/4W、1/3W、S1/2W)
- 文字 : Alphanumeric (1/2W~S3W)

## 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)
- ◎正常情况下具电阻功能
- ◎ Function as a resistor in normal operation.
- ◎异常过负荷时可快速熔断
- ◎ Quick fusing protects circuit from excessive overload.
- ◎产品符合欧盟 RoHS 要求
- ◎ Products meet EU-RoHS.

## 参考规格 Reference standards

- JIS C 5201-1

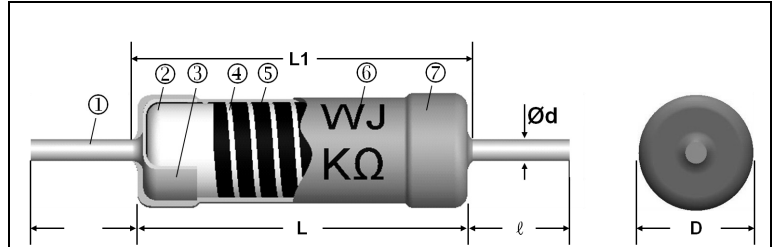
## 二次加工对应表 Taping & Forming Matrix

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	
1/6,S1/4	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4,S1/2,1/3	○	-	-	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2,S1,P2	○	-	-	○	○	-	○	-	-	-	○	-	-	-	○	○	○	○	○	-	-	-	○	-	-
1,S2	○	○	-	○	○	-	-	○	-	-	-	○	-	-	○	○	○	○	○	-	○	-	-	○	-
2,S3	-	○	-	-	○	-	-	-	○	-	-	-	○	-	○	○	○	○	○	-	-	○	-	-	○

## 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)					
	J±5% (E24)					A52	A64	FT	YT	L	C
1/6,S1/4	0.1~1K	100V	150V	200V	±350ppm/°C	5000	-	-	-	-	-
1/4,1/3	0.1~15K	250V	300V	250V		2500	-	2000	2000	2500	2500
S1/2,S1	0.1~33K	250V	300V	250V		2500	-	1000	1000	2500	2500
1/2	0.1~4.7K	250V	300V	300V		2000	-	1000	1000	2500	2500
1,2,S2,S3		350V	500V	300V		1000	500	1000	1000	1000	1000

## 结构图 Construction



1	端子线	Lead wire	5	保险型皮膜	Fusible 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	
1/6,S1/4	3.3±0.3	4	1.7±0.3	0.45±0.05	27±3	120
1/4,1/3,S1/2	6.0±0.3	7	2.4±0.1	0.6±0.05	28±2	218
1/2,S1,P2	9±0.5	11	3.0±0.5		28±3	320
1,S2	12±1	15	4.5±0.5	0.8±0.05	38±3	780
2,S3	16±1	18	5.5±0.5			1450

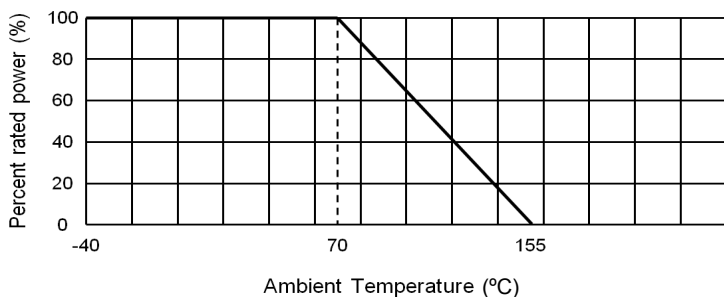
## 料号编码 Type composition

例 Example

RF	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	16:1/6W	J±5%	1006=100M	See table	热镀线
	S: Small	14:1/4W		1007=1G	below	Heat plated
		12:1/2W				
		01:1W				
		02:2W				

■ 额定温度下降曲线图 Derating curve

例 Example



■ 熔断特性 Fusing characteristics

残留阻值为公称阻值 100 倍以上 (Residual resistance  $\geq$  100 times nominal resistance)

Rated Power (W)	Resistance Range	$\sqrt{40PR}$	$\sqrt{30PR}$	$\sqrt{25PR}$	$\sqrt{16PR}$	Fusing Time
1/6、S1/4	0.10 ~ 1K $\Omega$	0.10 ~ 0.18 $\Omega$	0.20 ~ 0.47 $\Omega$	0.51 ~ 1K $\Omega$	-----	60 Sec Max
1/4、1/3	0.10 ~ 15K $\Omega$	0.10 ~ 0.22 $\Omega$	-----	0.24 ~ 9.1 $\Omega$	10 ~ 15K $\Omega$	
S1/2、P2	0.10 ~ 33K $\Omega$	-----	-----	0.10 ~ 1.0 $\Omega$	1.1 ~ 33K $\Omega$	
S1、P2	0.10 ~ 33K $\Omega$	-----	-----	0.10 ~ 1.0 $\Omega$	1.1 ~ 33K $\Omega$	
1/2	0.10 ~ 4.7K $\Omega$	0.10 ~ 0.33 $\Omega$	0.47 ~ 0.91 $\Omega$	1.0 ~ 9.1 $\Omega$	10 ~ 4.7K $\Omega$	
1、S2	0.10 ~ 4.7K $\Omega$	-----	-----	0.10 ~ 1.0 $\Omega$	1.1 ~ 4.7K $\Omega$	
2、S3	0.10 ~ 4.7K $\Omega$	-----	-----	0.10 ~ 1.0 $\Omega$	1.1 ~ 4.7K $\Omega$	

■ 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	$\pm(2\%+0.05\Omega)$	4 倍额定功率，5 秒 4 times the rated power for 5 seconds
负荷寿命 Load life	$\pm(5\%+0.1\Omega)$	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	$\pm(5\%+0.1\Omega)$	10% rate power load 40°C, 95% RH for 1,000 hours; 1.5h ON / 0.5h OFF cycle
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)
焊锡效果 Soldeability	95 % (min) coverage	Temp. of solder 245°C $\pm$ 5°C duration of immersion 3s $\pm$ 0.5s
焊锡耐热 Resistance to soldering heat	$\pm(1\%+0.05\Omega)$	260°C $\pm$ 5°C for 10 seconds (焊锡槽) 350°C $\pm$ 10°C for 3.5 seconds (手焊锡)
绝缘电阻 Insulation resistance	>1,000M $\Omega$	500V 绝缘测试 1 分钟 500V insulation test 1min.