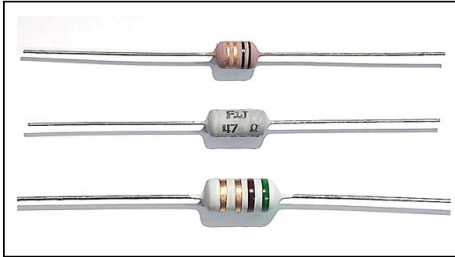


FUSING RESISTOR

RFB 防爆保險絲電阻器
ANTI-BURST FUSIBLE RESISTOR (Wire Type)

RFF 防爆保險絲電阻器
ANTI-BURST FUSIBLE RESISTOR (Film Type)



本體顏色 : Body Color
白色 : White
標示 : Marking
色碼 : Color Code(1/4W)
文字 : Alphanumeric (1/2W~3W)

特性 Feature

- ◎ 防爆式繞線保險絲或防爆式皮膜保險絲
- ◎ The ANTI-BURST Type wire wound or film type fusible.
- ◎ 提供無爆裂與保護環境的安全熔斷特性，準確的熔斷性能
- ◎ Resistors can provide reliable and environmentally safe fusing behavior.
- ◎ 在額定功率下作業的持久高穩定性
- ◎ Reliable performance and endurance to surge voltage.
- ◎ 產品符合歐盟 RoHS 要求
- ◎ Products meet EU-RoHS.

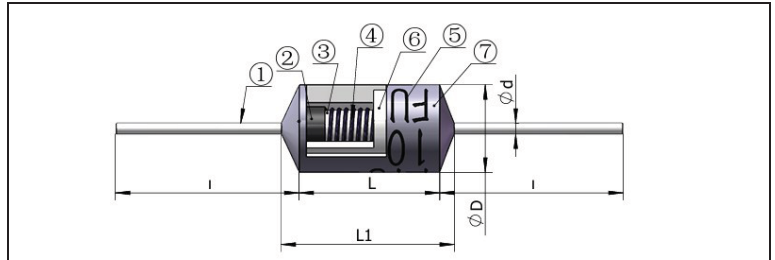
產品認證 Approvals awarded

- UL 1412 File No.E257690

參考規格 Reference standards

- JIS C 5201-1

結構圖 Construction



1	端子線	Lead wire	5	標示	Marking
2	鐵帽	Cap	6	瓷管	Ceramic tube
3	瓷棒	Ceramic base			
4	繞線	Wire wound	7	絕緣塗料	Insulation coat

外型尺寸 Dimensions

Rated Power (W)	Dimensions (mm)					Weight (g) (1000pcs)
	L	L1 Max.	D	Ød	l	
1/4	10 (Max)	11	5 (Max)	0.6±0.05	26±2	310
1/2	13.5(Max)	15	4.8±0.5			490
1	13.5 (Max)	15	4.8 ± 0.5	0.8 ± 0.05	30±3	490
2	16 (Max)	17	6.2 (Max)			1250
3	16 (Max)	17	6.2 (Max)			1250

料號編碼 Type composition Example

RF	B	14	J	R100	A520	NH
型名 Type	品名 Size	額定功率 Rated Power	誤差值 Tolerance	電阻值(Ω) Resistance	二次加工 Forming	端子線 Lead Wire
	B: Wire	14:1/4W	J±5%	R100=0.1	See table	NC: 塗裝 NH: 熱鍍線
	F: Film	12:1/2W		1R00=1	Below A52C: 自動塗裝	Heat plated SC: 小型品(塗裝)
		01:1W		10R0=10		
		02:2W		1000=100		

二次加工對應表 Taping & Forming Matrix

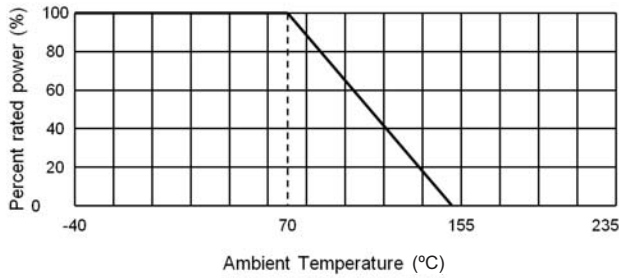
Rated Power (W)	Taping			Radial Taping		L Forming					C Forming				F Forming				M Forming			D Forming			
	A52	A64	A73	FT	YT	L10	L12.5	L15	L20	L30	C12.5	C15	C20	C30	FA5	FB5	FC5	FD5	M12.5	M15	M20	D12.5	D15	D20	
1/4	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2, 1	○	-	-	-	-	-	-	○	-	-	-	○	-	-	○	○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

額定 Ratings

Rated Power (W)	阻值範圍 Resistance Range (Ω)	最高使用電壓 Max. Working Voltage DC	最高過負荷電壓 Max. Overload Voltage DC	耐電壓 Dielectric Withstanding Voltage DC	溫度係數 T.C.R.	包裝 Taping/Ammo, Forming/Bulk pack (pcs)					
	J±5% (E24)					A52	A64	FT	YT	L	C
1/4	0.1 ~ 47	250V	500V	1,500V	≤ 1Ω : ± 500ppm/°C	1000	-	-	-	-	-
1/2						1000	-	-	-	2500	2500
1						1000	-	-	-	1000	1000
2	0.1 ~ 100	100V	150V	2,000V	> 1Ω : ± 300ppm/°C	-	500	-	-	1000	1000
3						-	-	-	-	-	-

■ 額定溫度下降曲線圖 Derating curve

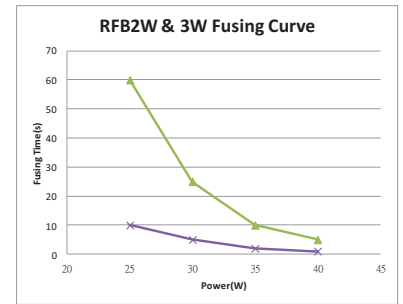
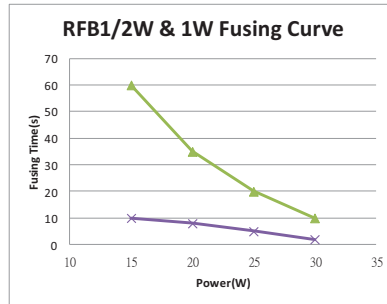
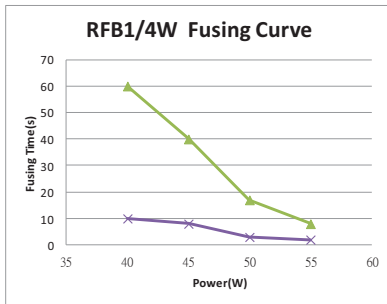
例 Example



■ 熔斷特性 Fusing characteristics (參考用 Reference)

殘留阻值為公稱阻值 100 倍以上 (Residual resistance \geq 100 times nominal resistance)

1/4W	Power Rating I=constant	Opening Time	1/2W & 1W	Power Rating I=constant	Opening Time	2W & 3W	Power Rating I=constant	Opening Time
	45W	8 sec ~ 40 sec Max		20W	8 sec ~ 35 sec Max		30W	5 sec ~ 35 sec Max
50W	3 sec ~ 15 sec Max	25W	5 sec ~ 20 sec Max	35W	2 sec ~ 10 sec Max			
55W	2sec ~ 8sec Max	30W	2sec ~ 10sec Max	40W	1sec ~ 5sec Max			



※能量可以依客戶需求製作 Energy can be produced according to customer demand

■ 性能 Performance

試驗項目 Test Items	規格值 Performance Requirements	試驗方法 Test Methods
電阻值 Resistance	規定的誤差值內 Within specified tolerance	測量點從端蓋 10 mm Measuring points are 10 mm from the end cap
溫度係數 T.C.R.	規定值內 Within specified T.C.R.	室溫+100°C Room temperature +100°C
短時間過負荷 Short time overload	±(1%+0.05Ω)	4 倍額定功率 · 5 秒 4 times the rated power for 5 seconds
負荷壽命 Load life	±(5%+0.1Ω)	Rated voltage at 70°C for 1,000 hours 1.5hr ON / 0.5hr OFF Cycles
耐濕負荷壽命 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
耐濕性 Moisture resistance	±(1%+0.05Ω)	40°C, 95% RH, 240 小時 40°C, 95% RH for 240 hours
溫度循環 Temperature cycle	±(1%+0.05Ω)	5 cycles for -25°C (30min) ; room temp. (30min) ~ +85°C (30min) room temp. (30min)
焊錫效果 Soldeability	95 % (min) coverage	Temp. of solder 245°C ± 5°C duration of immersion 3s±0.5s
焊錫耐熱 Resistance to soldering heat	±(1%+0.05Ω)	260°C ± 5°C for 10 seconds (焊錫槽) 350°C ± 10°C for 3.5 seconds (手焊錫)
絕緣電阻 Insulation resistance	>1,000MΩ	500V 絕緣測試 1 分鐘 500V insulation test 1min.
不燃性 Flameproof	無燃燒現象 No evidence of flaming or arcing	AC voltage of 2,4,8,16,32 times the power rating for 1min. (V ≤ 4 times max. working voltage)