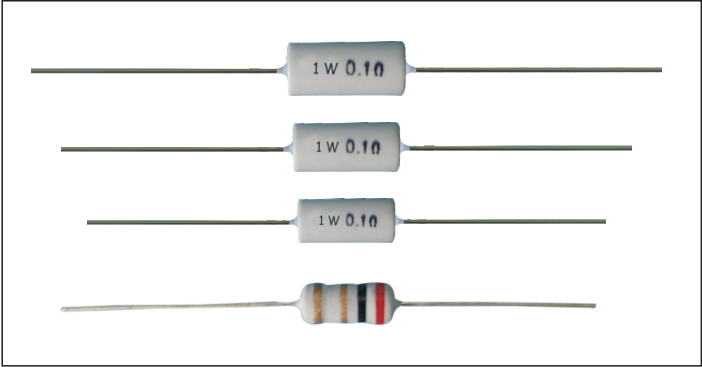


FUSING RESISTOR

FKB 防爆保险电阻器ANTI-BURST FUSIBLE RESISTOR (WIRE TYPE)

FKF 防爆保险电阻器ANTI-BURST FUSIBLE RESISTOR (FILM TYPE)

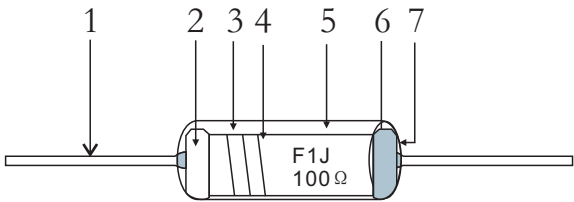


本体颜色: Body Color
白 色:White
标 示: Marking
色 环: Color Code(1/4W-3W)
文 字: Alphanumeric
(根据客户要求提供相应标识)
(According to the customer request to provide corresponding identification)

●特性 Feature

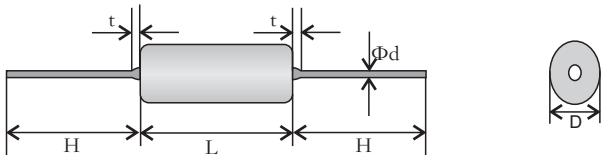
- I 防爆式绕线保险或防爆式皮膜保险丝。
The anti-burst type wire wound or film type fusible.
- II 提供无爆裂与保证环境的安全熔断特性，准确的熔断性能。
Resistors can provide reliable environmentally safe fusing behavior.
- III 在额定功率下作业的持久高稳定性。
Reliable performance and endurance to surge voltage.
- IV 产品符合欧盟RoHS要求。
Products meet eu-rohs.

●结构图 Construction



1	2	3	4	5、6	7
端子线	线帽	瓷棒	绕线/皮膜	标示	绝缘涂料
Lead wire	Cap	Ceramic base	Wirewound or film	Marking or color code	Insulation coat

●外形尺寸 Dimensions



功 率Rated power(w)	尺 寸Dimensions(mm)					Weight(g) (1000pcs)
	L	t MAX.	D	Φd	H	
1/4	7.5±0.5	1.5	3.6±0.5	0.6±0.05	26±2	310±5g
1/2	11±1	2.0	4.3±0.5	0.6±0.05	26±2	490±5g
1	11±1	2.5	4.3±0.5	0.6±0.05	26±2	490±5g
2	13±1	2.5	5.5±0.5	0.8±0.05	30±3	1250±10g
3	17±1	2.5	7.0±0.5	0.8±0.05	35±3	2300±10g

产品认证 Approvals Awarded

UL 1412 File NO.E341249

参考规格 Reference Standards

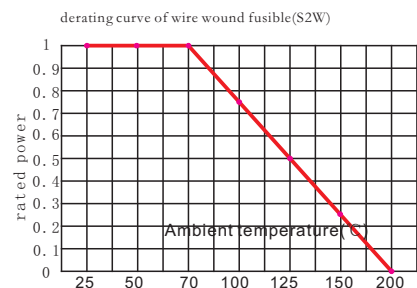
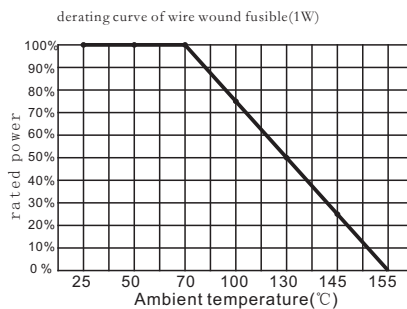
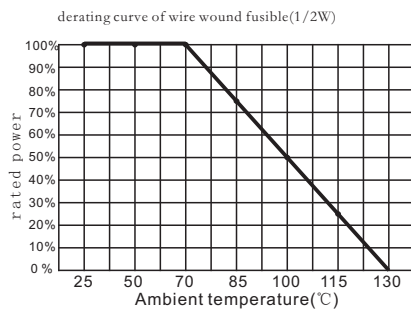
JIS C 5201-1

功率、阻值范围与耐电压 Applications And Ratings

Rated Power(w)	Resistance Range(Ω)	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	T.C.R	Taping/Ammo Forming/Bulk pack (pcs)					
	J $\pm 5\%$ (E24)					A52	A64	FT	YT	L	C
1/4	0.1~100	100V	150V	2000V	$\leq 1\Omega$: $\pm 500\text{PPM}/^\circ\text{C}$ $> 1\Omega$: $\pm 300\text{PPM}/^\circ\text{C}$	1000	—	—	—	—	—
1/2						1000	—	—	—	2500	2500
1						1000	—	—	—	1000	1000
2						—	500	—	—	1000	1000
3						—	—	—	—	—	—

额定温度下降曲线图 Derating Curve

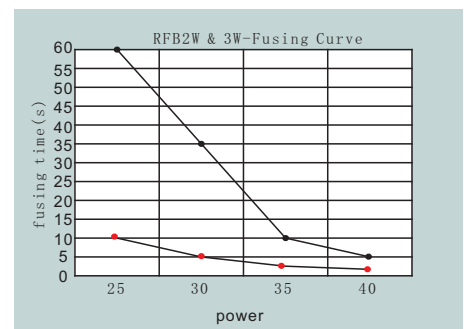
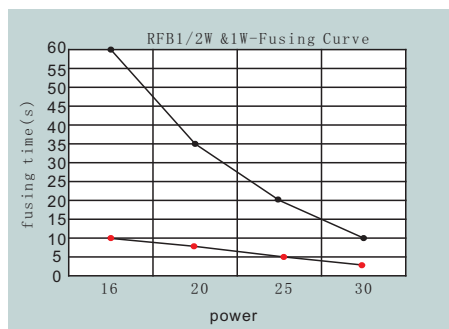
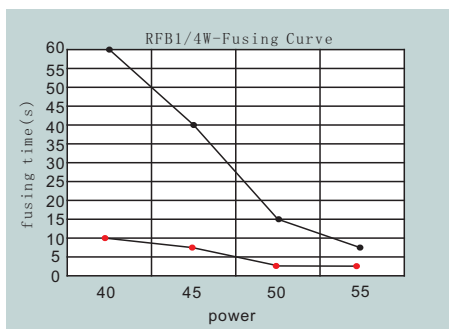
例 example



熔断特性 Fusing Characteristics(参考用reference)

残留阻值为公称阻值100倍以上 (residual resistance ≥ 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
	40*wattage	10 sec min		16*wattage	10 sec min		25*wattage	10 sec min
	45*wattage	8sec~40sec max		20*wattage	8sec~35sec max		30*wattage	5sec~35sec max
	50*wattage	3sec~15sec max		25*wattage	5sec~20sec max		35*wattage	2sec~10sec max
	50*wattage	2sec~8sec max		30*wattage	2sec~10sec max		40*wattage	1sec~5sec max



※能量可以依客户需求制作energy can be produced according to customer demand

● 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	$\pm (1\%R + 0.05\Omega)$	4倍额定功率, 5秒 4 times the rated power for 5 seconds
负荷寿命 Load life	$\pm (5\%R + 0.1\Omega)$	Rated voltage at 70℃ for 1,000hours 1.5hr ON/0.5hr OFF Cycles
耐湿负荷寿命 Load life in humidity	$\pm (5\%R + 0.1\Omega)$	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	$\pm (1\%R + 0.05\Omega)$	40℃, 95% RH, 240小时 40℃, 95% RH for 240 hour
温度循环 Temperature cycle	$\pm (1\%R + 0.05\Omega)$	5cycles for -25℃ (30min); room temp. (30min) ~ +85℃ (30min) room temp. (30min)
焊锡效果 Resistance to soldering heat	95%(min) coverage	Temp. of solder 245℃ $\pm$ 5℃ 350℃ $\pm$ 10℃ for 3.5 seconds (手焊锡)
绝缘电阻 Insulation resistance	> 1,000M Ω	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)

● 料号编号 Type Composition

例 Example

FK	B	14	J	R100	A520	NH
型号 type	品名 size	额定功率 rated power	误差值 tolerance	误差值 (Ω) resistance	二次加工 forming	端子线 lead wire
	B: Wire F: Film	14: 1/4W 12: 1/2W 01: 1W 02: 2W 03: 3W	J $\pm$ 5%	R100=0.1 1R00=1 10R0=10 1000=100	See table below	热镀线 heat plated