

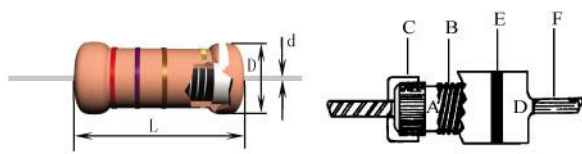


熔断类  
FUSE RESISTORS

●特点 Features:

- 1、温度系数小、精度高、噪声低、高频性能好。Low temperature coefficient, high precision, low noise, and good high frequency performance.
- 2、施加过负荷电压时,在规定的时间内熔断,对电路起保护作用。Can be fusible during the stated time for protecting the circuit once wording at the required overload voltage.
- 3、使用环境温度 Operating ambient temperature: -55℃~+125℃.
- 4、涂漆颜色为砖红色不燃性面漆,精度色环后增加白色环表示。The surface is brick red nonflammable coating and indicate a white ring at the behind of the precision color ring.
- 5、阻值误差 Resistance tolerance: ±2%、±5%、±10%.

●产品结构图 Structural Drawing:



- A、高热传导瓷芯 High heat exchanged Ceramic core.
- B、高稳定性导电膜 High stability Electric conduction film.
- C、铁帽 Iron Cap.
- D、硅树脂涂料 Silicon resin coating.
- E、色环 Color Ring.
- F、镀锡铜线或镀锡铜包钢线 Tinned copper lead wire or CP lead wire.

●规格尺寸及耐压性能 Dimensions and Voltage Performance:

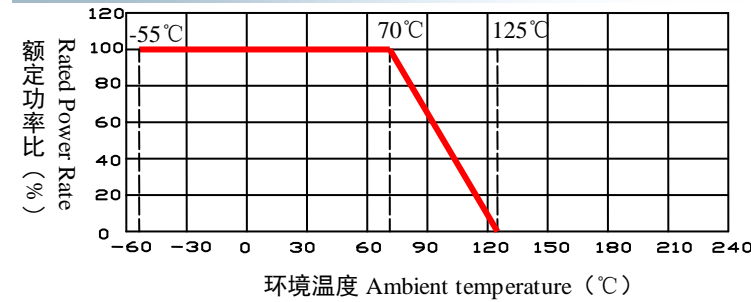
料号 Part No.	功率 Power	阻值范围 Resistance range	尺寸 Dimensions			最大使用电压 Max. working voltage	最大负荷电压 Max. overload voltage	最高绝缘电压 Max. insulation voltage
			L±1	D±0.5	d±0.05			
CFM014	1/4W	0R1~1K	6.0	2.3	0.45	200V	400V	300V
CFM12S	1/2WS	0R1~1K	6.0	2.3	0.45	200V	400V	300V
FMF012	1/2W	0R1~1K	9.0	3.2	0.58	250V	500V	500V
FMF01S	1WS	0R1~1K	9.0	3.2	0.58	250V	500V	500V
FMF01B	1W	0R1~1K	11.0	4.5	0.75	350V	700V	710V
FMF02S	2WS	0R1~1K	11.0	4.5	0.75	350V	700V	710V
FMF02B	2W	0R1~1K	15.0	5.0	0.75	350V	700V	710V
FMF03S	3WS	0R1~1K	15.0	5.0	0.75	350V	700V	710V

●熔断特性 Fusing Characteristics:

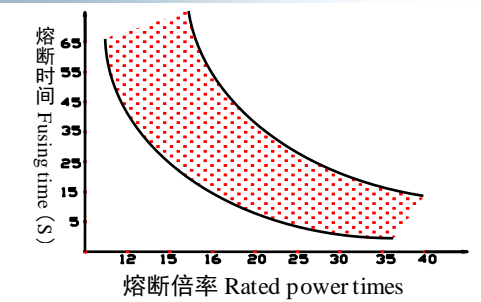
熔断规格 Fusing Spec.	熔断倍率 Multiple Rated power	标称阻值范围 Rated resistance range		
		<2R	2~10R	>10R
熔断时间 (秒) Fusing time (s)				
G	12		60	30
B	16	60	30	15
C	25	30	15	7.5
J	25			

备注 Note: 其它熔断特性也可以根据客户的要求协商制作。We can according to customer's requirement to customize the other fusing characteristics resistors.

●额定功率递减图 Rated Power Derating Curve:



●熔断曲线图 Fusing Curve:



●性能测试 Performance Test:

测试项目 Test Item	测试条件 Test Condition	性能 Performance
温度系数 Temperature coefficient	在常温及常温+100℃时分别测量电阻并计算每度的阻值变化率。Test the resistance value at normal temperature and normal temperature added 100℃, calculate per℃ resistance value change rate.	±250ppm/℃
短时间过负荷 Short time overload	施加 2.5 倍额定电压或最高负荷电压 (取较小者) 5 秒。2.5 × rated voltage or Max. overload voltage (get the lower) for 5 seconds.	ΔR≤± (1%R <sub>0</sub> +0.05Ω)
断续过负荷 Pulse overload	4 倍额定电压或最高断续负荷电压 (取较小者) 测试 1 秒, 停止 25 秒, 循环 10000±200 次。At 4 × rated voltage or Max. pulse overload voltage (get the lower) cycle 10000±200 times (1 second on, 25 seconds off).	ΔR≤± (1%R <sub>0</sub> +0.05Ω)
耐焊接热 Resistance to soldering heat	在 350±10℃ 锡炉中浸入 2~3 秒。Immerge into 350±10℃ tin stove for 2~3 seconds.	ΔR≤± (1%R <sub>0</sub> +0.05Ω)
可焊性 Solderability	在 260±5℃ 锡炉中浸入 2~3 秒。Immerge into 260±5℃ tin stove for 2~3 seconds.	焊锡面积覆盖 95% 以上 The area of soldering is over 95%
温度循环 Temperature cycling	在 -55℃ 时放置 30 分钟, 然后在 +25℃ 时放置 10~15 分钟, 然后再在 +125℃ 时放置 30 分钟, 然后在 +25℃ 时放置 10~15 分钟, 共循环 5 次。At -55℃ for 30 min, then at +25℃ for 10~15 min, then at +125℃ for 30 min, then at +25℃ for 10~15 min, total 5 cycles.	ΔR≤± (1%R <sub>0</sub> +0.05Ω)
耐湿负荷寿命 Load life in humidity	在温度为 40±2℃, 相对湿度为 90~95% 的恒温恒湿箱中, 施加额定电压或最大工作电压 (取较小者) 共 1000 小时 (通 1.5 小时, 断 0.5 小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.	ΔR≤± (5%R <sub>0</sub> +0.05Ω)
耐温负荷寿命 Load life in heat	在 70±2℃ 恒温恒湿箱中施加额定电压或最大工作电压 (取较小者) 1000 小时 (通 1.5 小时, 断 0.5 小时)。Overload rated voltage or Max. working voltage (get the lower) for 1000 hours (1.5 hours on and half-hour off) at the 70±2℃.	ΔR≤± (5%R <sub>0</sub> +0.05Ω)
难燃性 Nonflammability	分别按 5、10、16 倍额定功率加交流负荷 5 分钟。Respectively load AC voltage by 5、10、16 times rated power for 5 minutes.	不可以有明显火焰。No visible flame.

●料号规则 Part No. Regulation:

FMF	01B	J	C	T520	10R00
产品名称 Product Name	功率 Power	精度 Tol.	熔断规格 Fusing Spec.	成型 Forming	阻值 Ohm
金属膜熔断固定电阻器 Metal Film Fuse Resistors	014=1/4W 12S=1/2WS 012=1/2W 01S=1WS 01B=1W 02S=2WS 02B=2W 03WS=3WS	G=±2% J=±5% K=±10%	G C B J	T520=T52 T710=T71 M001=M F001=F B001=B	0R220=0.22Ω 10R00=10Ω 100R0=100Ω 1K000=1KΩ
FMF:铜引线 Copper lead wire CFM:CP 引线 CP lead wire					

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