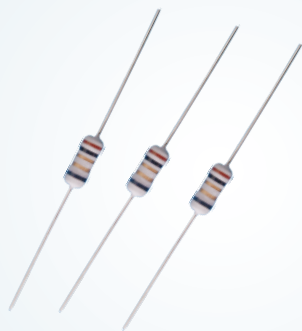


FKU保险电阻器FUSIBLE RESISTOR



本体颜色: Body Color

标准品: Standard (Gray 灰色)

标示: Marking

色环: Color Code (1/4W-3W)

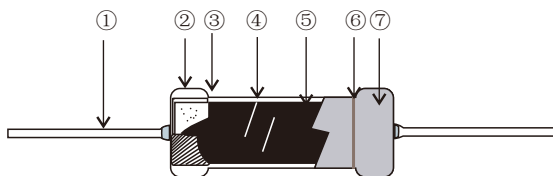
(根据客户要求提供相应标识)

(According to the customer request to provide corresponding identification)

特性 Feature

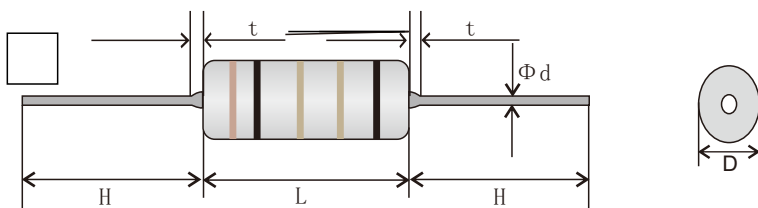
- (1) 正常情况下具备电阻功能 Function as a resistor in normal operation condition.
- (2) 异常过负荷时可快速熔断。Quick fusing protects circuit from excessive over load.
- (3) 产品符合欧盟RoHS要求。Products meet EU-RoHS.

结构图 Construction



1	2	3	4	5	6	7
端子线	线帽	瓷棒	切割线	皮膜	标示	绝缘涂料
lead wire	cap	ceramic base	Helical cutting groove	film	marking or color code	insulation coat

外形尺寸 Dimensions



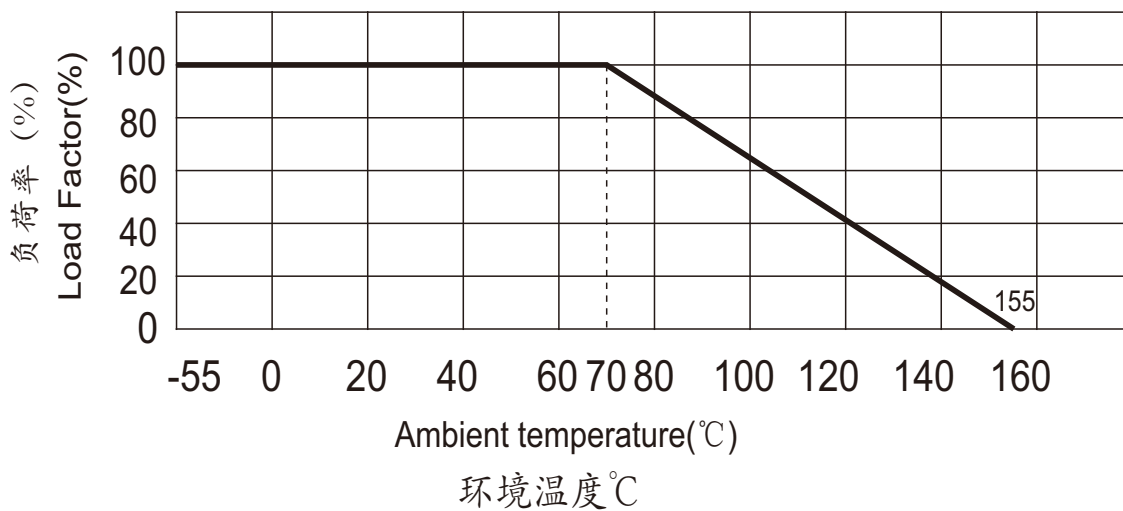
规格 Type	功率Power		尺寸Dimensions(mm)				
	普通型 Normal size	小型化 Small size	L	t Max	D	Φd	H
FKU	1/6W	1/4WS	3.3 ± 0.3	1.5	1.7 ± 0.3	0.45 ± 0.05	27 ± 3
	1/4W	1/2WS	6.0 ± 0.3	1.5	2.4 ± 0.3	0.5 ± 0.05	28 ± 3
	1/2W	1WS	9 ± 0.5	2.0	3.0 ± 0.5		30 ± 3
	1W	2WS	12 ± 1	2.5	4.5 ± 0.5	0.7 ± 0.05	38 ± 3
	2W	3WS	16 ± 1	2.5	5.5 ± 0.5		

FKU保险电阻器FUSIBLE RESISTOR

● 功率、阻值范围与耐电压Power And Resistance etc

规格 Type	功率Power		阻值范围 Resistance Range(Ω) J $\pm$ 5%(E24)	最高使用电压 MaxWorking Voltage	最高负荷电压 MaxOverload Voltage	耐电压Dielectric Withstanding Voltage	温度系数 T.C.R
	普通型 Normal size	小型化 Small size					
FKU	1/6W	1/4WS	0.1-1K	100V	150V	200V	$\pm 100\text{PPM}/^{\circ}\text{C}$
	1/4W	1/2WS	0.1-15K	250V	300V	250V	
	1/2W	1WS	0.1-33K	250V	300V	250V	
	1W	2WS	0.1-4.7K	250V	300V	300V	
	2W	3WS		350V	500V	300V	

● 额定温度下降曲线图 Derating Curve



● 熔断特性Fusing Characteristics(参考用reference)

FUSING characteristics 熔断特性 (Residual resistance ≥ 100 times nominal resistance 残留阻值为公称阻值100倍以上)

规格 Type	功率Power		阻值范围 Resistance Range	$\sqrt{40\text{PR}}$	$\sqrt{30\text{PR}}$	$\sqrt{25\text{PR}}$	$\sqrt{16\text{PR}}$	熔断时间 Fusing Time
	普通型 Normal size	小型化 Small size						
FKU	1/6W	1/4WS	0.10-1K Ω	0.10-0.18 Ω	0.2-0.47 Ω	0.51-1K Ω	10-15K Ω	60sMAX
	1/4W	1/2WS	0.10-15K Ω	0.10-0.22 Ω	0.2-0.47 Ω	0.24-9.1 Ω	1.1-33K Ω	
	1/2W	1WS	0.10-33K Ω	0.10-0.22 Ω	0.2-0.47 Ω	0.10-1.0 Ω	1.1-33K Ω	
	1W	2WS	0.10-4.7K Ω	0.10-0.33 Ω	0.47-0.91 Ω	0.10-1.0 Ω	1.1-4.7K Ω	
	2W	3WS	0.10-4.7K Ω	0.10-0.33 Ω	0.47-0.91 Ω	0.10-1.0 Ω	1.1-4.7K Ω	

FKU保险电阻器FUSIBLE RESISTOR

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	$\pm (2\%R+0.05\Omega)$	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 1,000 hours 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 hours
温度循环 Temperature cycle	$\pm (1\%R+0.05\Omega)$	At -55℃ for 30min, time at +25℃ for 10-15min, time at +155℃ for 30min, time at +25℃ for 10-15min, total 5cycles.
焊锡效果 Solderability	95%(min)coverage	Temp. of solder 245℃ $\pm$ 5℃ duration of immersion 3s $\pm$ 0.5s
焊锡耐热 Resistance to soldering heat	$\pm (1\%R+0.05\Omega)$	260℃ $\pm$ 5℃ for 10 seconds(焊锡槽) 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.

料号编号 ordering Information

例 example

FKU	14S	J	R100
型号 Type	额定功率 Rated Power	误差值 Tolerance	电阻值 (Ω) Resistance
FKU	14S:1/4WS 12S:1/2WS 01S:1WS 02:2W 03:3W	J $\pm$ 5%	R100=0.1 1R00=1 10R0=10 1000=100