

FYR 分压电阻



本体颜色: Body Color

标准品: Standard (Red 红色)

标示: Marking

印字: Alphanumeric (20W~1000W)

(根据客户要求提供相应标识)

(According to the customer request to provide corresponding identification)

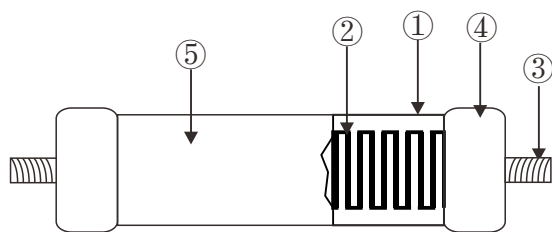
特性 Feature

- 无感设计
- 高精度
- 阻值范围宽
- 高耐压、高功率
- No Inductance
- Excellent Tolerance
- Wider resistance values
- High Voltage、High Power

应用 Application

- 1、冲击电压发生器
- 2、电弧炉阻尼, 能源研究
- 3、脉冲调制器, 雷达脉冲开成网络
- 4、电容器的消弧电路, 高电压缓冲电路
- 5、X-ray/头像设备和EMI/闪电抑制
- 1、Impulse voltage generator
- 2、Electric-arc furnace damping,
- 3、Pulse modulator, radar pulse opens the network
- 4、Arc suppression circuit of capacitor, high voltage buffer circuit
- 5、X-ray/head portrait equipment and EMI/ lightning suppression

结构图 Construction

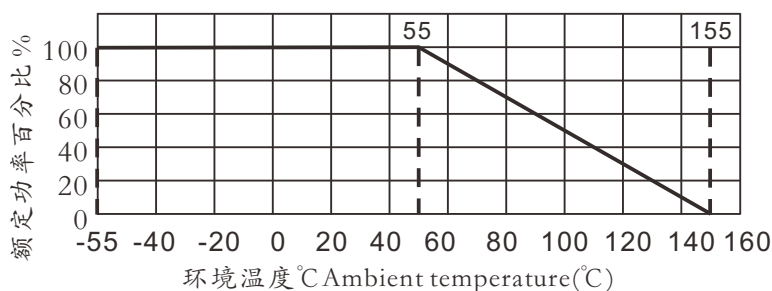


- ① 陶瓷基体 Ceramic core
- ② 玻璃釉质电阻膜层 Glazed resistive film
- ③ 螺杆 screw
- ④ 铁帽 Iron cap
- ⑤ 保护膜 Protective coating

参考规格 Reference Standards

JISC 5201-1

降功耗曲线 Derating Curve

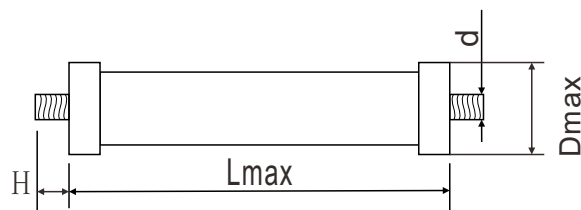


● 功率、阻值范围与耐电压 Power And Resistance etc

额定功率 Rated Power(W)	阻值范围(Ω) Resistance Range	温度系数 (PPM/ $^{\circ}\text{C}$)	最大工作 电压(KV)	使用温度	阻值公差
20W	1.0K-1000G	± 300	30	-55 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)
25W	1.0K-1000G	± 300	30		
30W	1.0K-1000G	≤ 400	30		
50W	1.0K-1000G	≤ 400	30		
80W	1.0K-1000G	≤ 400	30		
100W	1.0K-1000G	≤ 400	30		
150W	1.0K-1000G	≤ 400	35		
200W	1.0K-1000G	≤ 400	35		
300W	1.0K-1000G	≤ 400	35		
400W	1.0K-1000G	≤ 400	35		
500W	1.0K-1000G	≤ 400	40		
600W	1.0K-1000G	≤ 400	50		
800W	1.0K-1000G	≤ 400	60		
1000W	1.0K-1000G	≤ 400	80		

● 外形尺寸 Dimensions

规格 Type	功率 Power	尺寸Dimensions(mm)			
		Lmax	Dmax	H ± 3	d ± 0.1
FYR20W	20W	147 ± 2	11 ± 1	30或10	1.0或M6
FYR25W	25W	116 ± 2	17 ± 1	10	M6
FYR30W	30W	116 ± 2	19 ± 1	10	M6
FYR50W	50W	116 ± 2	19 ± 1	10	M6
FYR80W	80W	116 ± 2	21 ± 1	10	M6
FYR100W	100W	130 ± 2	27 ± 1	10	M6
FYR150W	150W	160 ± 2	27 ± 1	10	M6
FYR200W	200W	210 ± 2	27 ± 1	10	M6
FYR300W	300W	260 ± 2	27 ± 1	10	M6
FYR400W	400W	310 ± 2	33 ± 1	10	M6
FYR500W	500W	480 ± 2	27 ± 1	10	M6
FYR600W	600W	520 ± 2	27 ± 1	10	M6
FYR800W	800W	620 ± 2	33 ± 1	10	M6
FYR1000W	1000W	920 ± 2	33 ± 1	10	M6



● 无电感性能特点

FYR采用无感设计，独特的玻璃釉膜按照类似"长城"图案分布，这种高效率的无电感量设计，不会降低任何电阻性能优势，非常适合要求高频率的产品应用。电感量在0.1 μH ~1 μH

FYR use non-inductive design, special glazed film, distribute itself like the Great Wall, this high efficiency and non-inductive design will not cut any advantages of the resistor's function. It is perfect for products which request high frequency. Inductor value keeps at 0.1 μH ~1 μH



● 性能Performance

试验项目Test Item	性能要求Specifications(JISC 5201-1)
阻值精度Resistance Tolerance	$\pm 1\%$ $\pm 5\%$ $\pm 10\%$ (如有特殊需要可提供0.5%) (tolerance to 0.5% on special order)
温度系数Temperature Coefficient	100ppm/ $^{\circ}\text{C}$ (测试区间: $+25^{\circ}\text{C} \sim +125^{\circ}\text{C}$; $+25^{\circ}\text{C} \sim -55^{\circ}\text{C}$) 100ppm/ $^{\circ}\text{C}$ (Referenced to $+25^{\circ}\text{C}$, ΔR taken at $+125^{\circ}\text{C}$ and -55°C)
寿命Load life	$+125^{\circ}\text{C}$, 1000小时 $\Delta R \leq 0.4\%$
绝缘层电阻Insulate resistance	$\geq 1000\text{M}\Omega$
涂覆层Encapsulation	高温硅树脂 High temperature silicone conformal
过载Overload	2.5额定功率(≤ 1.5 Max. operating voltage)5s $\Delta R \leq 0.5\%$
热冲击Thermal shock	$\Delta R \leq 0.25\%$
耐潮性能Moisture resistance	$\Delta R \leq 0.4\%$
可焊引线Solderable Lead	$30 \pm 3\text{mm}$

● 料号编号 Ordering Information

例 example

FYR	20	J	100K
型号 Type	额定功率 Rated Power	误差值 Tolerance	电阻值(Ω) Resistance
FYR	20: 20W 100: 100W 1000: 1000W	F($\pm 1\%$) G($\pm 2\%$) J($\pm 5\%$) K($\pm 10\%$)	10K 100K