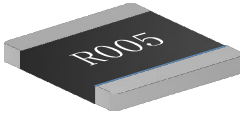


# FSHY 佛山好运



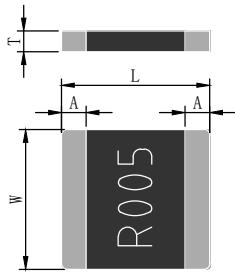
## 合金贴片电阻2728

### ● 特征 Features



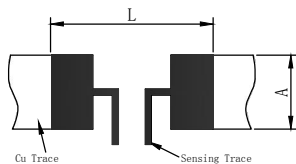
- 阻值范围 Resistance value: 4~50mΩ
- 精度 Tolerance: ±1%, ±5%
- 功率 Power: 4W
- 温度系数 Temperature coefficient: ±50ppm/°C
- 电子束焊接结构 Electron-beam welding
- 推荐工作范围 Recommended operating temperature range: -55°C~155°C
- 符合ROHS要求 Lead-free
- 特殊规格可以订做 Special tolerance is available on request

### ● 尺寸规格 Dimensions Data



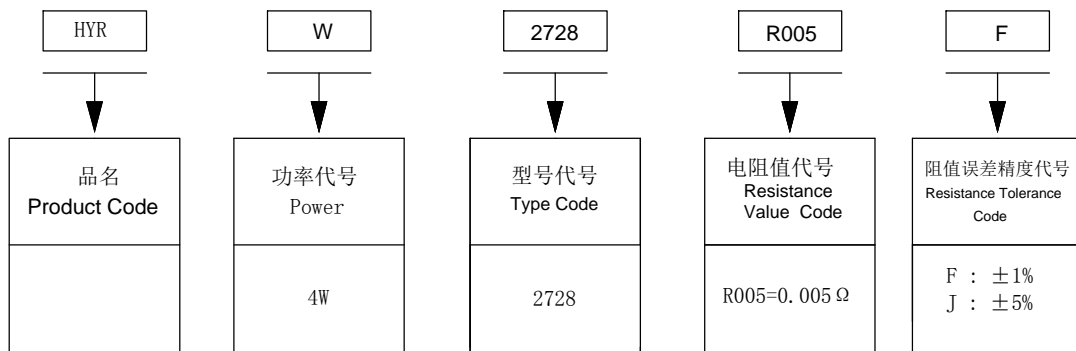
尺寸 Type	长 L/mm	宽 W/mm	脚长 A/mm	厚度 T/mm	阻值范围 R/mΩ
2728	7.2±0.2	6.8±0.2	0.9±0.2 1.2±0.2	1.0±0.1	4~50

### ● 推荐焊盘尺寸 Recommend Solder Pand Dimensions



Size	Dimensions	
	A/mm	L/mm
2728	7.8	9.0

### ● 品名构成 Type Designation

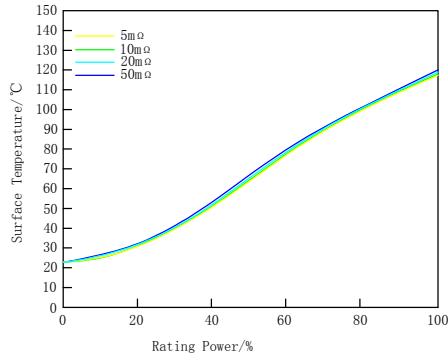


● 特性 Characteristics

项目 Item	标准 Specifications	测试方法 Test Methods
可焊性 Solderability	可焊面积 $\geq$ 95% 95% Cover Min	IEC 60115-1 4.17 245 $\pm$ 5 $^{\circ}$ C锡槽, 保持3s $\pm$ 0.3s Lead-free solder bath at 245 $\pm$ 5 $^{\circ}$ C for 3s $\pm$ 0.3s
电阻温度系数 T. C. R	在规定值内 Within specified T. C. R	IEC 60115-1 4.8 20 $^{\circ}$ C-120 $^{\circ}$ C
温度快速变化 Rapid Change of Temperature	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.19 -55 $^{\circ}$ C (30分钟) $\sim$ 常温 (5分钟) $\sim$ 125 $^{\circ}$ C (30分钟) 100个循环。 -55 $^{\circ}$ C (30min) $\sim$ normal temperature (5min) $\sim$ 125 $^{\circ}$ C (30min) 100 cycles.
耐焊接热 Resistance to Soldering Heat	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.18 260 $^{\circ}$ C, 保持10s $\pm$ 1s。 Lead-free solder bath at 260 $\pm$ 5 $^{\circ}$ C for 10s $\pm$ 1s.
短时间过负载 Short time overload	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.13 3W:3倍额定功率, 保持5秒; 4W:2倍额定功率, 保持5秒。 3W:Rated power $\times$ 3 for 5 seconds; 4W:Rated power $\times$ 2 for 5 seconds.
基板弯曲试验 Substrate Bending Test	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.33 弯曲距离 (Bending Distance) :2mm 保持时间 (duration) :60s $\pm$ 5s
稳态湿热 Damp Heat Steady State	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.24 40 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 93 $\pm$ 3%RH, 1000小时, 额定电流或元件极限电流 (取较少值) 通1.5小时/断0.5小时。 40 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 93 $\pm$ 3%RH, 1000 hours, Rated current or limiting element current whichever is lower 1.5h ON/0.5h OFF.
70 $^{\circ}$ C耐久性 Endurance at 70 $^{\circ}$ C	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.25.1 70 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 1000小时, 额定电流或元件极限电流 (取较少者) 通 1.5小时/断0.5小时。 70 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 1000h, Rated current or limiting element curren t whichever is lower 1.5h ON/0.5h OFF
上限类别温度耐久性 Endurance at Upper Category Temperature	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.25.3 170 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 1000小时 170 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C, 1000h
耐溶性 Component Solvent Resistance	无可见损伤 No mechanical damage $\Delta R \leq \pm 1.0\%R$	IEC 60115-1 4.29 异丙醇 (IPA), 23 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C, 浸10小时 Iso-propyl alcohol (IPA), 23 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C, 10h

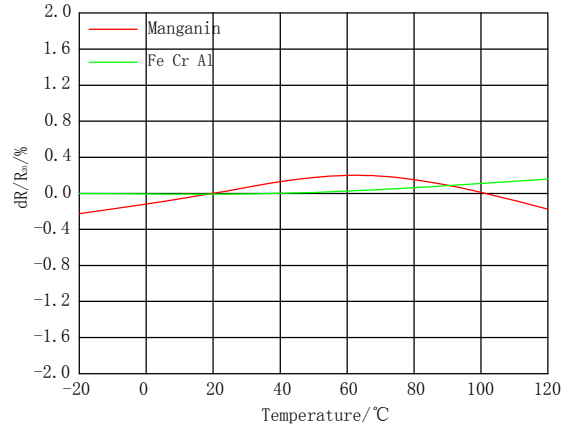
## ● 电气性能 Electrical Features

### \* 表面温度曲线 Surface Temperature Curve

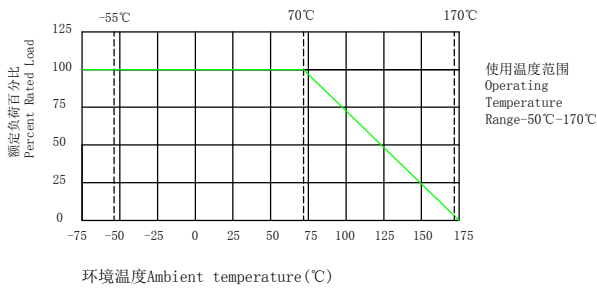


备注: 表面温度测试板采用铝基板  
Note: Surface temperature rise test boards use aluminum substrate

### \* 温度系数曲线 TCR Derating Curve



### \* 负荷下降曲线 Derating Curve

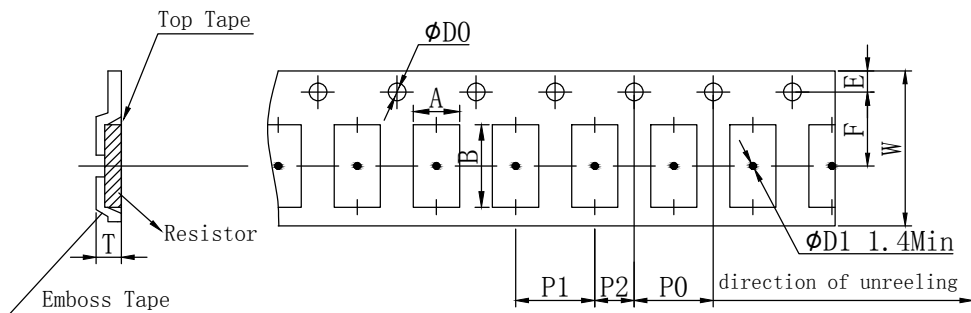


环境温度 Ambient temperature (°C)

### \* 应用范围 Applications

- 过流保护 Over current protection
- 电流采样 Current sense applications
- 伺服电机控制电路 Servo motor control circuits
- 智能功率模块 Intelligent power modules
- 工业电脑模块及精密测量系统 industrial PC modules and precision measurement system
- 高速CPU外围设备中的电流检测电路 Current detection circuits in high-speed CPU peripherals

## ● 编带包装 Tape and Reel



Type	A	B	W	E	F	P0	P1	P2	ϕD0	T	Quantity (EA)
2728	7.7	7.2	12	1.75	5.5	4	12	2	1.5	1.45	3000

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