

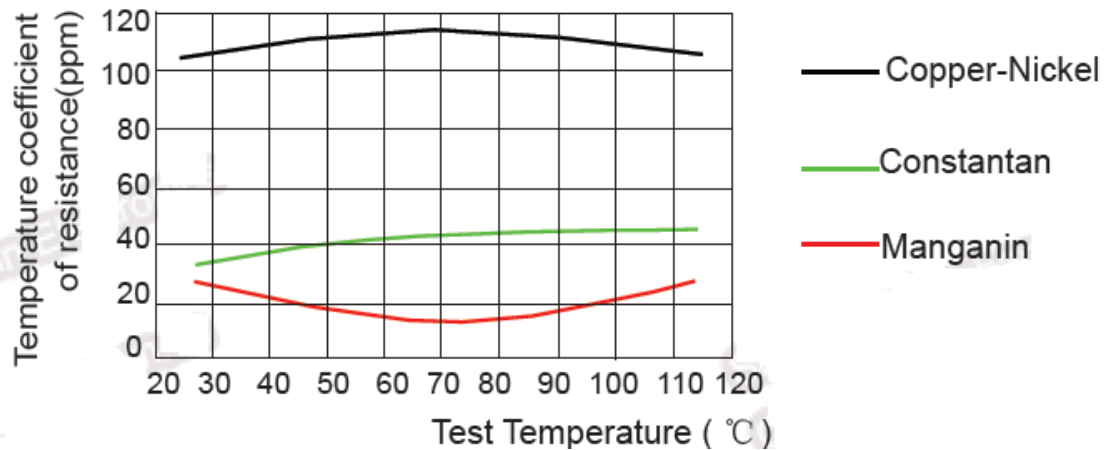
1.5 材质 Material

代号 Symbol	材料 Material	成分 Components	电阻率 Resistance rate
1	康铜 Constantan wire	Cu 57-59%, Ni 40-42%, Mn 1%	48 $\mu\Omega \cdot \text{cm}$
2	锰铜 Manganin wire	Cu 85%, Mn 12%, Ni 3%	44 $\mu\Omega \cdot \text{cm}$
6	镍铜22 Copper-Nickel wire	Cu 77%, Ni 23%	30 $\mu\Omega \cdot \text{cm}$

1.6 功率曲线 Power Derating



1.7 温度系数曲线 TCR Derating



标准书名 Classification 承认书 Specification	Spec No.	YZ. YSR
品 名 : 压脚型采样电阻器 YSR Series Product Name: Current Sensing Resistor	Version	1.5
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1.8 外形 External

项 目	参 数
材 料	直径 $1.6\text{mm} \pm 0.1\text{mm}$ 锰铜丝带压脚
图 解	<p>The diagram shows a top-down view of a current sensing resistor. It consists of a central rectangular body with two leads extending from the top. Dimension L is the wire diameter. Dimension H is the total height. Dimension P is the width of the leads. Dimension W is the width of the central body. Dimension C is the width of the flattened area on the leads. A 'Test point' is indicated on the left lead. A side view shows the resistor's profile with a central section containing vertical lines representing the resistor element.</p>
A (脚长)	$3.5\text{mm} \pm 0.2\text{mm}$
H (标高)	$9\text{mm} \pm 2\text{mm}$
P (压脚)	$1.5\text{mm} \pm 0.2\text{mm}$
W (跨距)	$10\text{mm} \pm 0.5\text{mm}$
C (打扁度)	$2.3\text{mm} \pm 0.2\text{mm}$
L (线径)	$1.6\text{mm} \pm 0.1\text{mm}$
阻 值	$6\text{m}\Omega \pm 5\%$
通过电流	10A
使用温度	$-55^{\circ}\text{C} \sim 155^{\circ}\text{C}$

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项目 Item	规格值 Performance	试验方法 Test methods	
短时间过负荷 Short time overload	±0.5%以内。 不得有机械损伤。 within ±0.5% No evidence of mechanical damage.	额定电压 X 2.5 倍 ,5 秒。 Rated voltage X 2.5 times, 5s	
端子强度 Terminal strength	不得有机械损伤。 No evidence of mechanical damage.	线径 1.0mm 以上 5kg/10sec.. 线径 0.8mm 以下 2kg/10sec. Wire dimension over 1.0mm 5kg/10sec. Wire dimension below 0.8mm 2kg/10sec.	
焊锡耐热性 Resistance to soldering heat	±0.5%以内。 不得有机械的损伤。 within ±0.5% No evidence of mechanical damage.	350±10℃, 3.5±0.5 秒 ,试验后放置 3 小时。 350±10℃, 3.5±0.5s After test leave for 3h.	
焊锡附着性 Solderability	导线至少 95%以上新锡覆盖。 Covered with new solder by 95% at least.	焊锡温度: 245±5℃。 浸锡时间: 3±0.5 秒。 Test temperature of solder: 245±5℃ Dipping time in solder: 3±0.5s	
温度循环 Temperature cycle	±1%以内。 不得有机械的损伤。 within ±1% No evidence of mechanical damage.	低温侧 -40±3℃/30 分, 室温 10~15 分钟 高温侧 200±2℃/30 分, 室温 10~15 分钟 5 回 Low side : -40±3℃/30min, Room temp.: 10 to 15min High side : 200±2℃/30min, Room temp.: 10 to 15min 5 cycles	
耐湿负荷寿命 Load life in humidity	±0.5%以内。 within ±0.5%	40±2℃, 湿度 90~95%, 1000 小时 定格电压(90 分钟 ON, 30 分钟 OFF) 40±2℃, 90 to 95%RH, 1000h Rated voltage (90 min ON, 30 min OFF)	
负荷寿命 Load life	±1%以内。 within ±1%	70±2℃, 1000 小时 定格电压(90 分钟 ON, 30 分钟 OFF) 70±2℃, 1000h Rated voltage (90 min ON, 30 min OFF)	