



深圳市业展电子有限公司

# 承认书

## SPECIFICATION FOR APPROVAL

客户名称

Customer Name \_\_\_\_\_

客户料号

Customer P/N \_\_\_\_\_

产品名称

Product Name

Current Sensing Resistors – YSR Series

产品规格

Product Type

M110-15-50G-t

申请承认日期

Apply Date

2020-07-07

版本

REV. \_\_\_\_\_

供货商属性  代理商

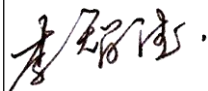
制造商 深圳市业展电子有限公司

Vendor Type Agency

Manufacturer

Note: 禁止使用 1 级环境管理物质.遵守 ACBEL"环境管理物质规范"中所要求之含量标准.

Restrict use of hazardous substances of level 1; Comply with "Specification for Hazardous Substances and Materials Management" of ACBEL

| 供货商印鉴<br>Vendor Stamp | APPROVED  | CHECKED | PREPARED | 承认印鉴<br>Stamp |
|-----------------------|---|---------|----------|---------------|
|                       |  |         | 邓小辉      |               |

Mainland China: 深圳市业展电子有限公司

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|   |          |              |
|---|----------|--------------|
| 标准书名 Classification 承认书 Specification                                   | Spec No. | YZ-QR-EN-007 |
| 品名：压脚型采样电阻器 YSR Series<br>Product Name: <b>Current Sensing Resistor</b> | Version  | 1.5          |
|   | Page     | 4-1          |

1. 一般事项 General

1.1 适用范围 Scope

本承认书适用于深圳市业展电子有限公司 制造之[压脚型采样电阻器]。  
This specification is available for Current Sensing Resistor (Shunt Resistor) manufactured by Shenzhen Yezhan Electronics Co., Ltd.

1.2 品质 Quality

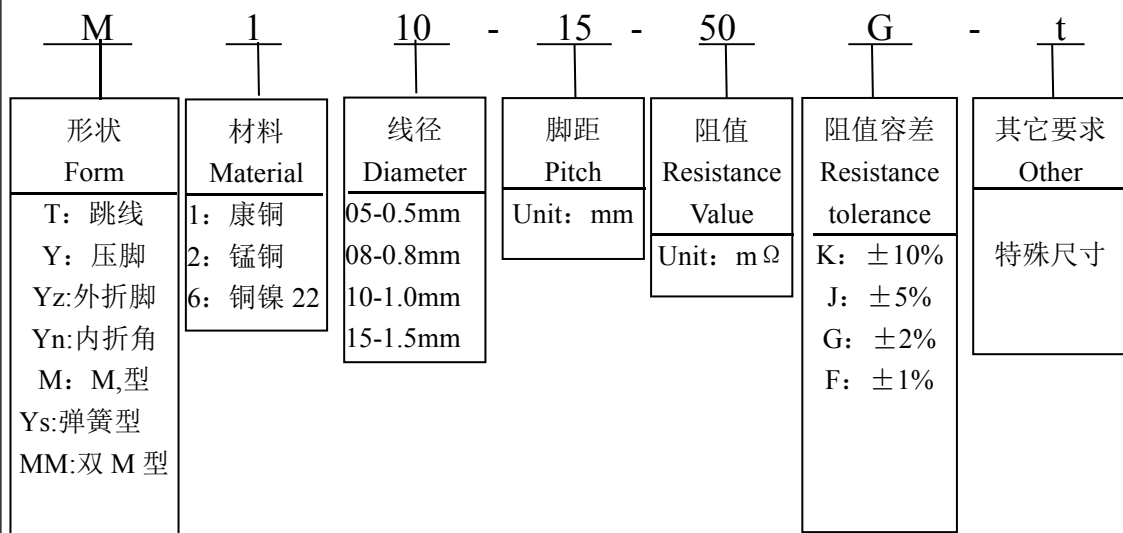
本电阻器的制造系经高质量管理程序，并具有高信赖性的质量保证，且符合 RoHS 和无卤要求。  
The resistor is manufactured by highly quality-controlled process and guaranteed high reliability, it meets RoHS & Halogen-Free requirement.

1.3 标准试验状态 Standard measuring conditions

温度  $20 \pm 2^\circ\text{C}$ 、湿度  $65 \pm 5\%$ 。  
但在温度  $5 \sim 35^\circ\text{C}$ 、湿度  $45 \sim 85\%$  之情况下，仍可给予判定。  
Temperature  $20 \pm 2^\circ\text{C}$ , Humidity  $65 \pm 5\%$ .  
Being no doubt about the judgment, measurements can be made within the following Temperature  $5 \sim 35^\circ\text{C}$ , Humidity  $45 \sim 85\%$ .

1.4 形名 (例) Type designation (example)

依使用种类、线径、脚距、形状、公称电阻值、电阻值容许差而区别，其构造如下：  
The type designation shall be in the following form and as specified.

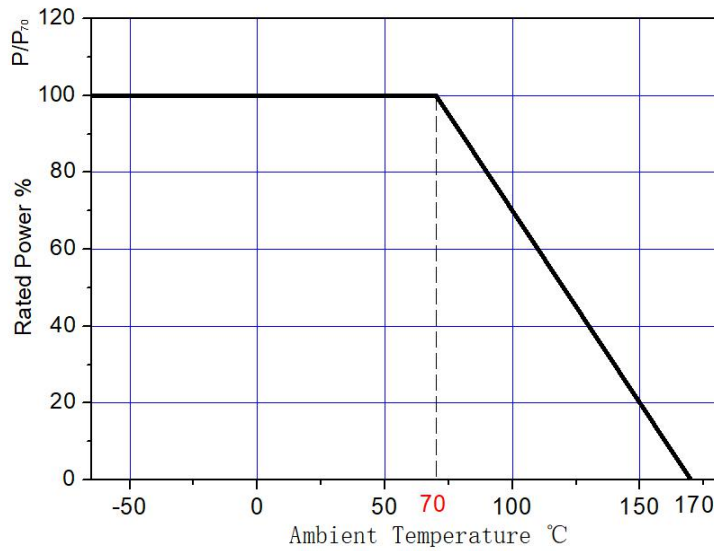


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|--|----------|--------------|
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| 品名 : 压脚型采样电阻器 YSR Series<br>Product Name: Current Sensing Resistor | Version  | 1.5          |
|  | Page     | 4-2          |

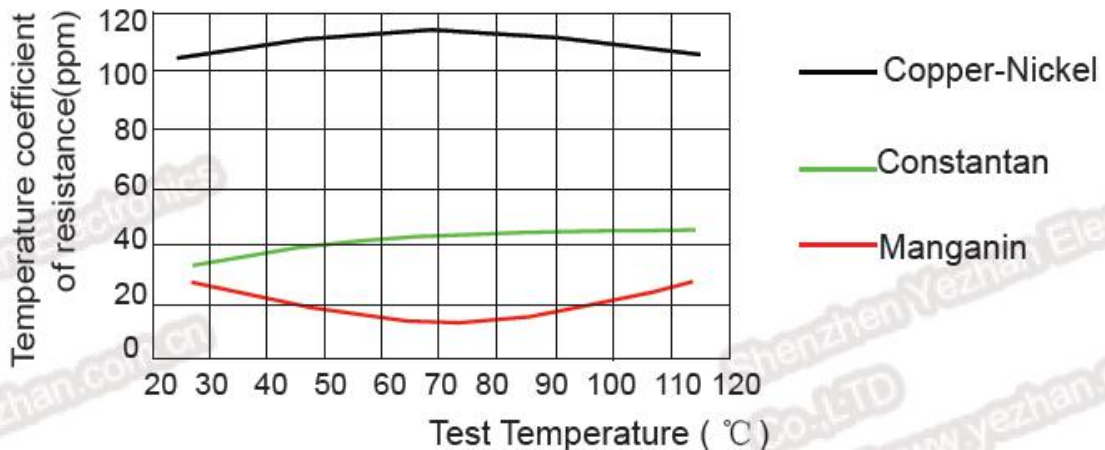
1.5 材质 Material

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

1.6 功率曲线 Power Derating

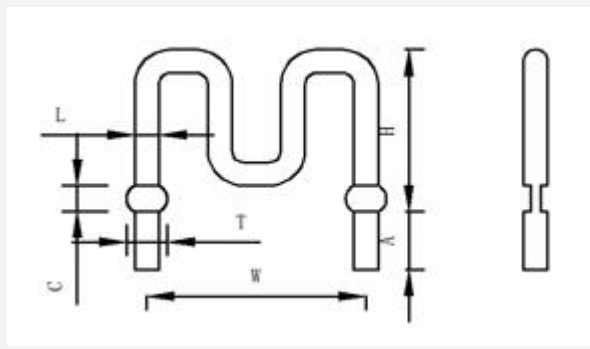


1.7 温度系数曲线 TCR Derating



|   |          |              |
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|   | Page     | 4-3          |

### 1.8 外形 External

| 项 目      | 参 数  |
|----------|--|
| 材 料      | 直径 $1.0\text{mm} \pm 0.1\text{mm}$ 康铜丝   |
| 图 解      |  |
| A (脚长)   | $3.5\text{mm} \pm 0.5\text{mm}$  |
| H (标高)   | $20\text{mm} \pm 2\text{mm}$   |
| W (跨距)   | $15\text{mm} \pm 0.5\text{mm}$   |
| C (压脚高度) | $1.5\text{mm} \pm 0.2\text{mm}$  |
| T (打扁度)  | $1.6\text{mm} + 0.2\text{mm}$  |
| L (线径)   | $1.0\text{mm} \pm 0.1\text{mm}$  |
| 阻 值      | $50\text{m}\Omega \pm 2\%$   |
| 通过电流     | 7A   |
| 使用温度     | $-65^\circ\text{C} \sim 170^\circ\text{C}$   |

|   |  |  |              |
|---|--|--|--------------|
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| Product Name: <b>Current Sensing Resistor</b> |  | Page   | 4-4          |
| 项目<br>Item                                    | 规格值<br>Performance   | 试验方法<br>Test methods   |              |
| 短时间过负荷<br>Short time overload                 | ±0.5%以内。<br>不得有机械损伤。<br>within ±0.5%<br>No evidence of mechanical damage.  | 额定功率 X 5 倍 , 5 秒。<br>Rated power X 5 times, 5s   |              |
| 端子强度<br>Terminal strength                     | 不得有机械损伤。<br>No evidence of mechanical damage.                              | 线径 1.0mm 以上 5kg/10sec..<br>线径 0.8mm 以下 2kg/10sec.<br>Wire dimension over 1.0mm 5kg/10sec.<br>Wire dimension below 0.8mm 2kg/10sec. |              |
| 焊锡耐热性<br>Resistance to soldering heat         | ±0.5%以内。<br>不得有机械的损伤。<br>within ±0.5%<br>No evidence of mechanical damage. | 260±5℃, 10±1 秒 , 试验后放置 3 小时。<br>260±5℃, 10±1s After test leave for 3h.   |              |
| 焊锡附着性<br>Solderability                        | 导线至少 95%以上新锡覆盖。<br>Covered with new solder by 95% at least.                | 焊锡温度: 245±5℃。<br>浸锡时间: 5±0.5 秒。<br>Test temperature of solder: 245±5℃<br>Dipping time in solder: 5±0.5s                            |              |
| 温度循环<br>Temperature cycle                     | ±0.5%以内。<br>不得有机械的损伤。<br>within ±0.5%<br>No evidence of mechanical damage. | -55℃~+125℃, 1000 循环<br>1000 Cycles (-55℃~+125℃)  |              |
| 耐湿负荷寿命<br>Load life in humidity               | ±0.5%以内。<br>within ±0.5%   | 在 85℃/85%RH 环境条件, 10%功率加载运行<br>1000hrs<br>1000hrs 85℃/85%RH, Note: Spified condition<br>10% of operating power                     |              |
| 负荷寿命<br>Load life                             | ±0.5%以内。<br>within ±0.5%   | 在 125℃环境条件, 额定功率加载运行 1000hrs<br>Condition D Steady State TA=125℃ at rated<br>power   |              |

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