



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 Alloy Shunt Resistors – ASR Series

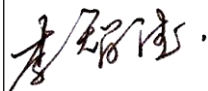
产品规格  
Product Type ASR-K-3-2F

申请承认日期  
Apply Date 2019-07-15

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: Shenzhen Yezhan Electronics Co., Ltd

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.  
Banned 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      |               |

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|   |          |              |
|---|----------|--------------|
| 标准书名 Classification 承认书 Specification                           | Spec No. | YZ-QR-EN-007 |
| 品 名 : 分流贴片电阻器 ASR Series<br>Product Name: Alloy Shunt Resistors | Version  | 1.5          |
|   | Page     | 5-2          |

## 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[分流贴片电阻器]。

This specification is available for Alloy Shunt Resistors 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  $65 \pm 5\%$ .

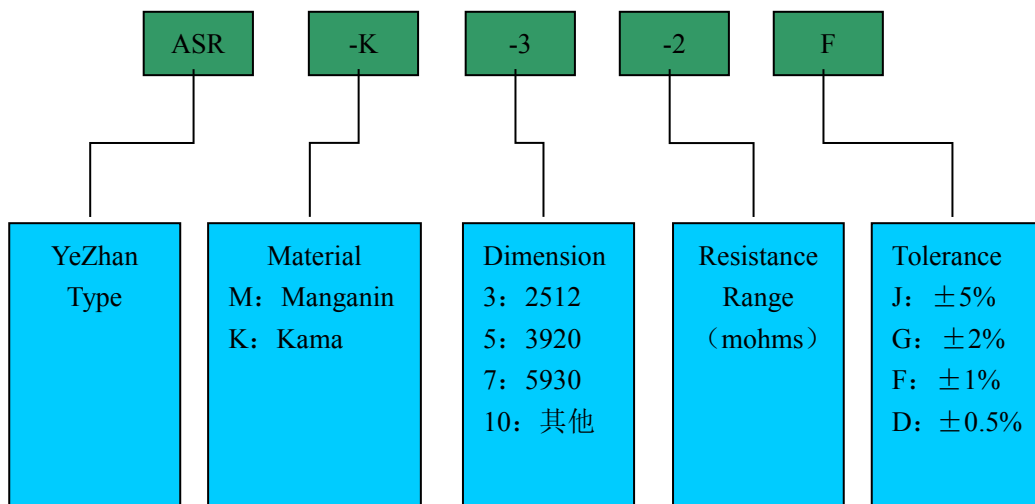
Being no doubt about the judgment, measurements can be made within the following Temperature

$5 \sim 35^\circ\text{C}$ , Humidity  $45 \sim 85\%$ .

### 1.4 形名 (例) Type designation (example)

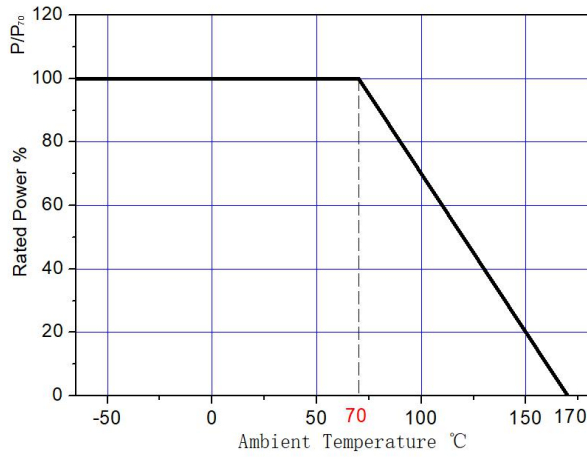
依使用种类、材料、规格、形状、公称电阻值、电阻值容许差而区别, 其构造如下:

The type designation shall be in the following form and as specified.

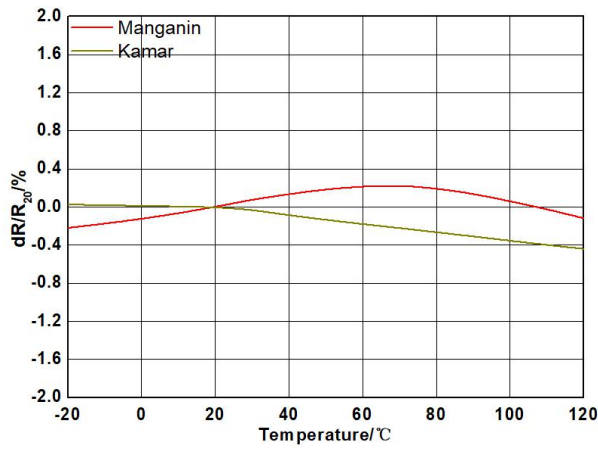


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|--|----------|--------------|
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| 品名：分流贴片电阻器 ASR Series<br>Product Name: Alloy Shunt Resistors | Version  | 1.5          |
|  | Page     | 5-3          |

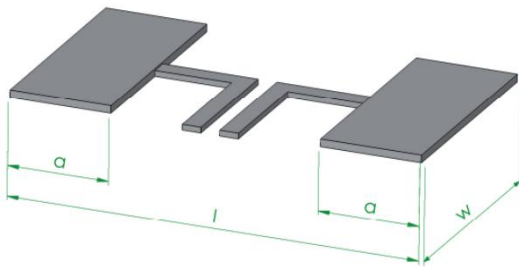
1.5 功率曲线 Power Derating



1.6 温度系数曲线 TCR Derating



1.7 推荐焊盘尺寸 Recommended Solder Pad Layout



| PCB  | l  | w    | a   |
|------|----|------|-----|
| 2512 | 7  | 3.4  | 1.8 |
| 3920 | 11 | 6.2  | 2.7 |
| 5930 | 16 | 8.75 | 5.2 |

|  |          |              |
|--|----------|--------------|
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| 品名：分流贴片电阻器 ASR Series<br>Product Name: Alloy Shunt Resistors | Version  | 1.5          |
|  | Page     | 5-4          |

1.8 外形 External

| 项目<br>Item     | 参数<br>Parameters   |
|----------------|--|
| 图 解<br>Drawing | <p>The drawing shows two views of the resistor. The top view (side view) shows a central grey rectangular body of length B and thickness T, with two orange trapezoidal leads on either side. The height of the leads is h. The top view (top view) shows a central grey rectangular body of length B and width W, with two orange rectangular leads on either side. The height of the leads is A. The maximum height of the leads is 1.0max. The dimensions are labeled as follows: W (total width), A (lead height), B (body length), T (body thickness), h (lead height), D1 (lead width), D2 (lead width), and 1.0max (maximum lead height).</p> |
| W              | 6.3mm±0.2mm  |
| A              | 3.1mm±0.3mm  |
| T              | 1.2mm±0.2mm  |
| h              | 0.5±0.1mm  |
| D1             | 0.65±0.1mm   |
| D2             | 0.65±0.1mm   |
| 阻 值            | 2mΩ±1%   |
| 额定功率           | 3W   |
| 使用温度           | -65℃~170℃  |

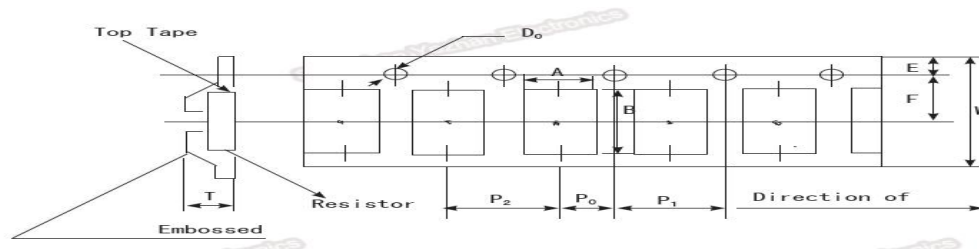
|                                       |          |              |
|---------------------------------------|----------|--------------|
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| Product Name: Alloy Shunt Resistors   | Page     | 5-5          |

## 2 应用范围 Applications

- 混合应用的电源电流传感器 Current sensor for power hybrid applications
- 变频器 Frequency converters
- 电源模块 Power modules
- 通讯系统 Communication system
- 自动化控制电源 Automatic control power supply
- 汽车市场的高电流应用 High current applications for the automotive market
- 体系认证 IATF16949

## 3 包装 Packaging

### Embossed plastic Tape Specifications



Unit: mm

| Size | A   | B   | W  | E    | F    | P <sub>0</sub> | P <sub>1</sub> | P <sub>2</sub> | D <sub>0</sub> | T   | Quantity |
|------|-----|-----|----|------|------|----------------|----------------|----------------|----------------|-----|----------|
| 2512 | 4.3 | 7.6 | 16 | 1.55 | 7.5  | 3.85           | 7.7            | 7.7            | 1.50           | 1.7 | 1000     |
| 3920 | 6   | 11  | 24 | 1.55 | 11.2 | 6              | 12             | 12             | 1.50           | 2.0 | 2500     |
| 5930 | 8.6 | 16  | 24 | 1.55 | 10.8 | 6              | 12             | 12             | 1.50           | 2.4 | 2000     |

## 4 工作特性 Performance Date

| Items                        | Additional Requirements  | Reference                  | Limits                 |
|------------------------------|--|----------------------------|------------------------|
| Temperature Cycling          | 1000 Cycles(-55°C to +125°C)<br>Measurement at 24±2hours after test conclusion   | JESD22<br>Method<br>JA-104 | ±0.5%                  |
| High Temperature Exposure    | 1000hrs.@T=125°C.Unpowered.<br>Measurement at 24±2hours after test conclusion  | MIL-STD-202<br>Method 108  | ±1%                    |
| Biased Humidity              | 1000hrs 85°C/85%RH. Note: Specified conditions:<br>10% of operating power.<br>Measurement at 24±2hours after test conclusion | MIL-STD-202<br>Method 103  | ±0.5%                  |
| Operational Life             | Condition D Steady State TA=125°C at rated power.<br>Measurement at 24±2hours after test conclusion                          | MIL-STD-202<br>Method 108  | ±1%                    |
| Solderability                | 245°C±5°C,5s+0.5s/-0   | J-STD-002C                 | 95%<br>Coverage<br>Min |
| Resistance to Soldering Heat | 260°C±5°C, 10s±1s<br>Measurement at 24±2hours after test conclusion  | MIL-STD-202<br>Method 210  | ±0.5%                  |
| Short Time Overload          | 5×Rated power for 5 s<br>Measurement at 24±2hours after test conclusion  | MIL-STD-202<br>Method 301  | ±0.5%                  |

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