



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

产品规格

Product Type

ASR-K-3-1.5F

申请承认日期

版本

Apply Date

2015-05-04

REV. _____

供货商属性 代理商

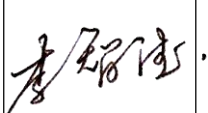
制造商 深圳市业展电子有限公司

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 Vendor Stamp	APPROVED	CHECKED	PREPARED	承认印鉴 Stamp
			袁挺	

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. ASR
品名：分流贴片电阻器 ASR Series	Version	1.5
Product Name: Alloy Shunt Resistors	Page	5-1

分流贴片电阻 Alloy Shunt Resistors –ASR Series

特征 Features

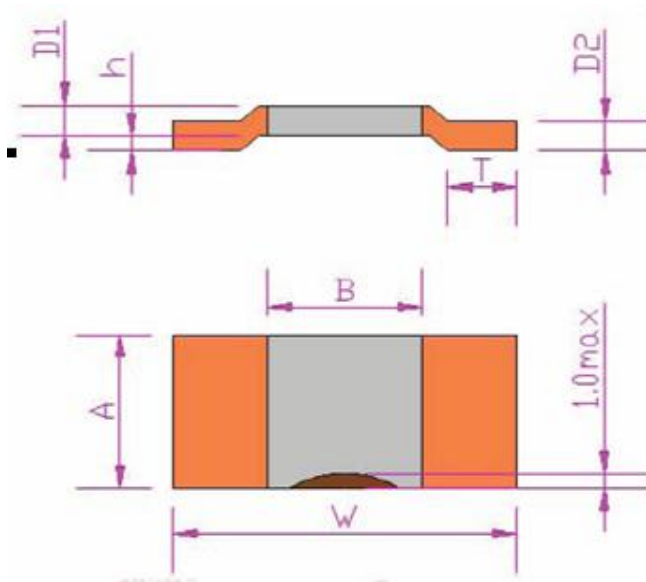
- ±5%、±2%、±1%精度 Tolerance ±5%、±2%、±1%
- 电阻温度系数 TCR±20ppm/°C或±50ppm/°C
- 阻值低至 0.0002 Ω Resistance values down to 0.0002 ohms
- 焊接结构 Welded Construction
- 耐高温 Flameproof
- 电感小于 10 纳亨 Low Inductance
- 符合 ROHS 要求 Lead-free
- 特殊规格可以定做
Special tight tolerance are available on request



1 尺寸规格 Dimensions Data

Unit: mm

Type	Size	B	W	T	A	H
ASR-M/K-3	2512	3.0±0.3	6.3±0.2	1.2±0.2	3.1±0.3	0.5±0.1
ASR-M/K-5	3920	4.5±0.3	10±0.2	2.2±0.2	5.1±0.4	0.5±0.1
ASR-M/K-7	5930	5.1±0.3	15±0.3	4.2±0.3	7.6±0.4	0.5±0.1



Type	Resistance	D1	D2
ASR-M-3	0.0003	1.5	1.5
	0.0005	0.85	0.85
	0.001	0.5	0.5
ASR-K-3	0.003	0.43	0.43
	0.0003	1.35	1.35
ASR-M-5	0.0005	0.81	0.81
	0.001	1.22	1.22
ASR-K-5	0.003	0.41	0.41
	0.0002	1.5	1.5
ASR-M-7	0.0005	0.6	0.6
	0.001	0.86	0.86
ASR-K-7	0.003	0.31	0.31

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2. 一般事项 General

2.1 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.

2.2 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.

2.3 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 $65 \pm 5\%$.

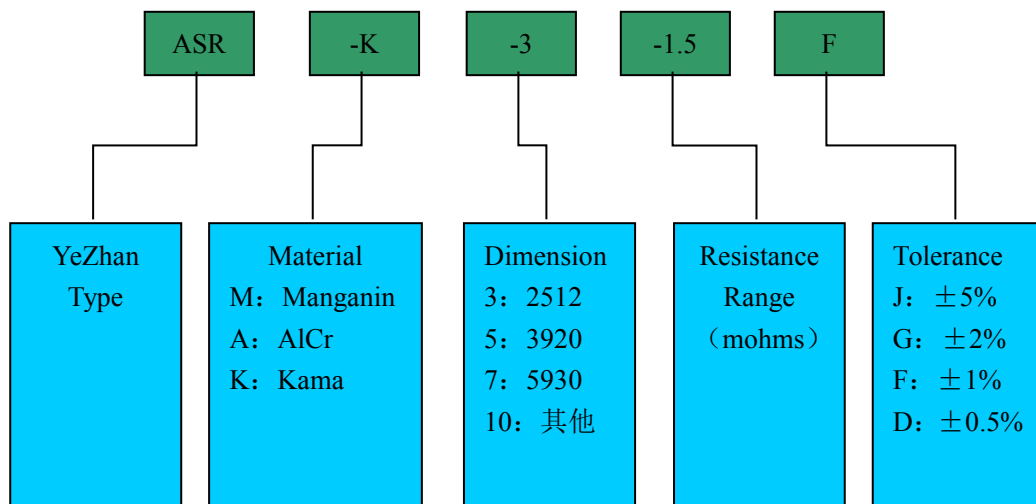
Being no doubt about the judgment, measurements can be made within the following Temperature

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

2.4 形名 (例) Type designation (example)

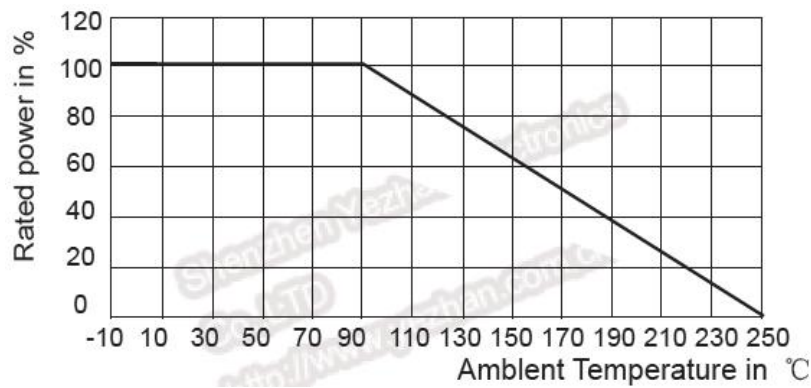
依使用种类、材料、规格、形状、公称电阻值、电阻值容许差而区别, 其构造如下:

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

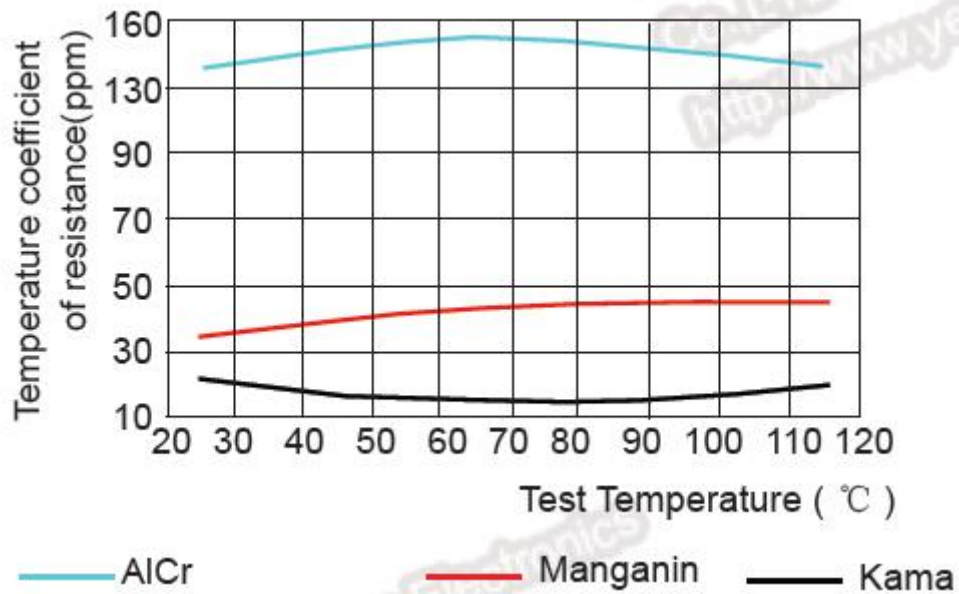


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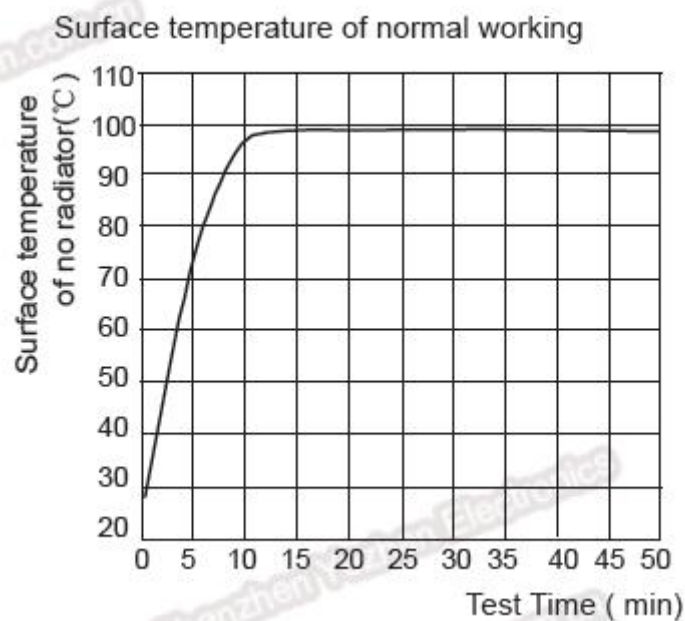
2.5 功率曲线 Power Derating



2.6 温度系数曲线 TCR Derating



2.7 表面温度图 Surface temperature



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2.8 外形 External

项 目	参 数
图 解	<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 h, with two orange trapezoidal leads of length T on either side. The total length is W. The height of the leads is h. The diameter of the leads is D1 and D2. The bottom view (top view) shows a rectangular body of width A and length B, with a semi-circular lead on the bottom edge. The total width is W. The maximum height of the leads is 1.0max.</p>
W	6.3mm±0.2mm
A	3.1mm±0.3mm
B	3.0±0.3mm
T	1.2mm±0.2mm
h	0.5±0.1mm
D1	0.86±0.05mm
D2	0.86±0.05mm
阻 值	1.5mΩ±1%
额定功率	3W
使用温度	-55℃~155℃

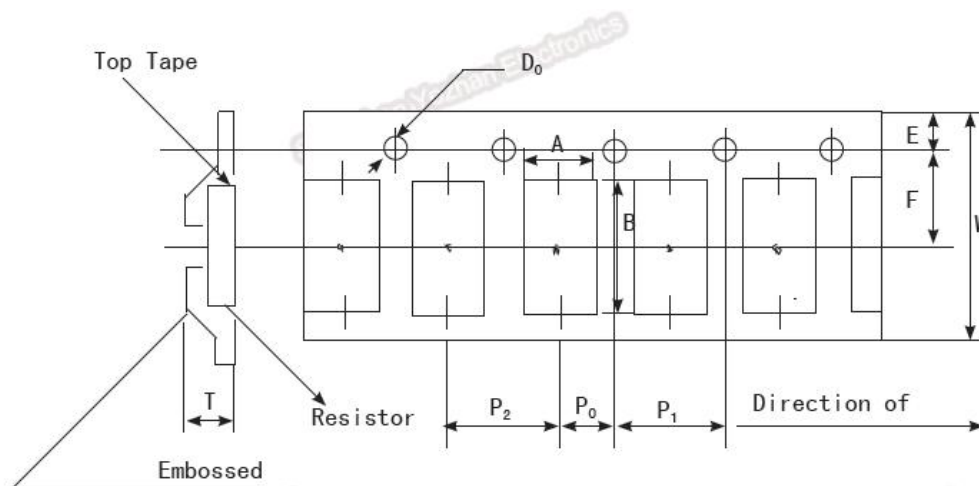
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3 应用范围 Applications

- 电流采样 **Current Sensing**
- 反馈电路 **Feedback**
- 低电感电路 **Low inductance**
- 大电流脉冲电路 **Surge and**

4 包装 Packaging

Embossed plastic Tape Specifications



Unit: mm

Size	A	B	W	E	F	P ₀	P ₁	P ₂	D ₀	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

5 工作特性 Performance Date

TEST	CONDITIONS OF TESE	TEST LIMITS
Thermal Shock	-55°C to 150°C, 1000cycles, 15min at each extreme	±(1.0%+0.0005 Ω) ΔR
Shot time overload	5xrated power for 5 s	±(1.0%+0.0005 Ω) ΔR
Low temperature storage	-65°C for 45 min	±(1.0%+0.0005 Ω) ΔR
High temperature exposure	1000 h at +170°C	±(1.0%+0.0005 Ω) ΔR
Bias humidity	+85°C, 85%RH, 10%bias, 1000h	±(1.0%+0.0005 Ω) ΔR
Mechanical shock	100 g's for 6 ms, 5 pulses	±(1.0%+0.0005 Ω) ΔR
Vibration	Frequency varied 10 Hz to 200 Hz in 1 min, 3 directions, 12h	±(1.0%+0.0005 Ω) ΔR
Load life	1000h at +70°C, 1.5h "ON", 0.5h "OFF"	±(1.0%+0.0005 Ω) ΔR
Resistance to solder heat	+260°C solder, 10s to 12s dwell, 25mm/s emergence	±(1.0%+0.0005 Ω) ΔR
Moisture resistance	MIL-STD-202, method 106, 0% power, 7a and 7b not required	±(1.0%+0.0005 Ω) ΔR

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