



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 ASR-M-10-0.1F

产品名称

Product Name Alloy Shunt Resistors

产品规格

Product Type 0.1mΩ 1% (ASR-M-10-0.1F)

申请承认日期

版本

Apply Date 2015-09-25 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

Mainland China: 深圳市业展电子有限公司

Shenzhen Yezhan Electronics Co., Ltd.

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标准书名 Classification 承认书 Specification	Spec No.	YZ-QC-EN-007
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

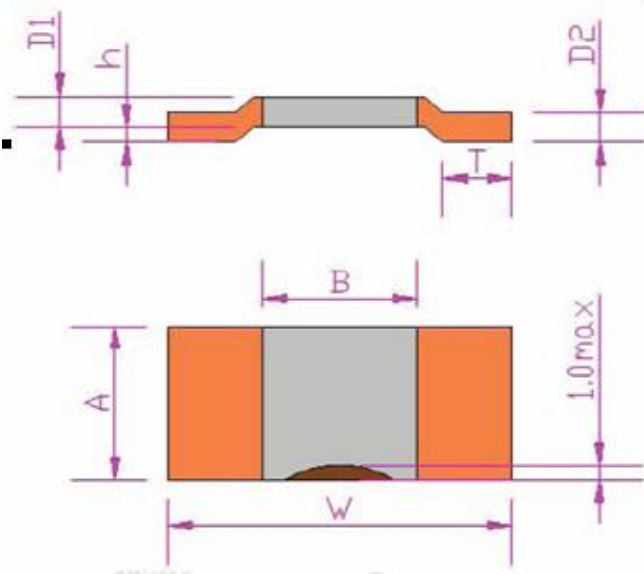
- $\pm 5\%$ 、 $\pm 2\%$ 、 $\pm 1\%$ 精度 Tolerance $\pm 5\%$ 、 $\pm 2\%$ 、 $\pm 1\%$
- 电阻温度系数 TCR $\pm 20\text{ppm}/^\circ\text{C}$ 或 $\pm 50\text{ppm}/^\circ\text{C}$
- 阻值低至 $0.0002\ \Omega$ Resistance values down to $0.0002\ \text{ohms}$
- 焊接结构 Welded Construction
- 耐高温 Flameproof
- 电感小于 10 纳亨 Low Inductance
- 符合 ROSH 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

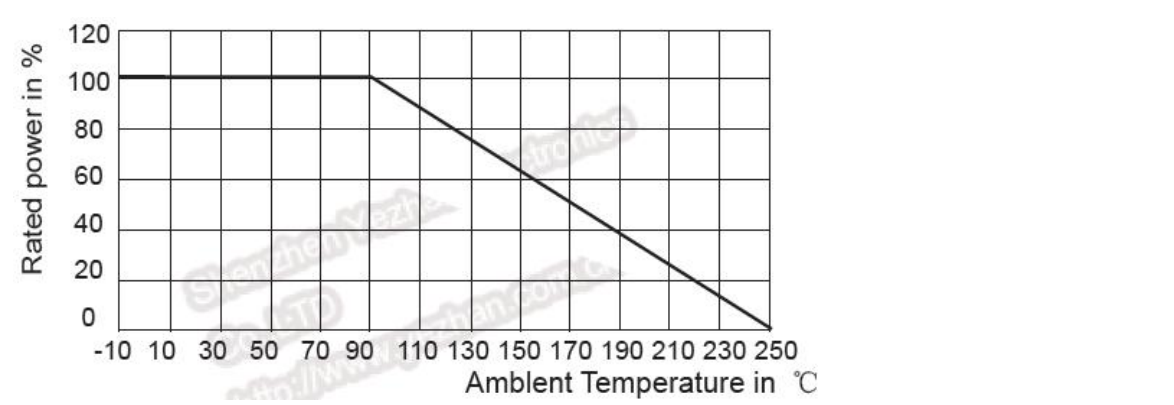


Type	Resistance	D1	D2
ASR-M-3	0.0003	1.5	1.5
	0.0005	0.85	0.85
	0.001	0.5	0.5
ASR-K-3	0.003	0.43	0.43
ASR-M-5	0.0003	1.35	1.35
	0.0005	0.81	0.81
ASR-K-5	0.001	1.22	1.22
	0.003	0.41	0.41
ASR-M-7	0.0002	1.5	1.5
	0.0005	0.6	0.6
ASR-K-7	0.001	0.86	0.86
	0.003	0.31	0.31

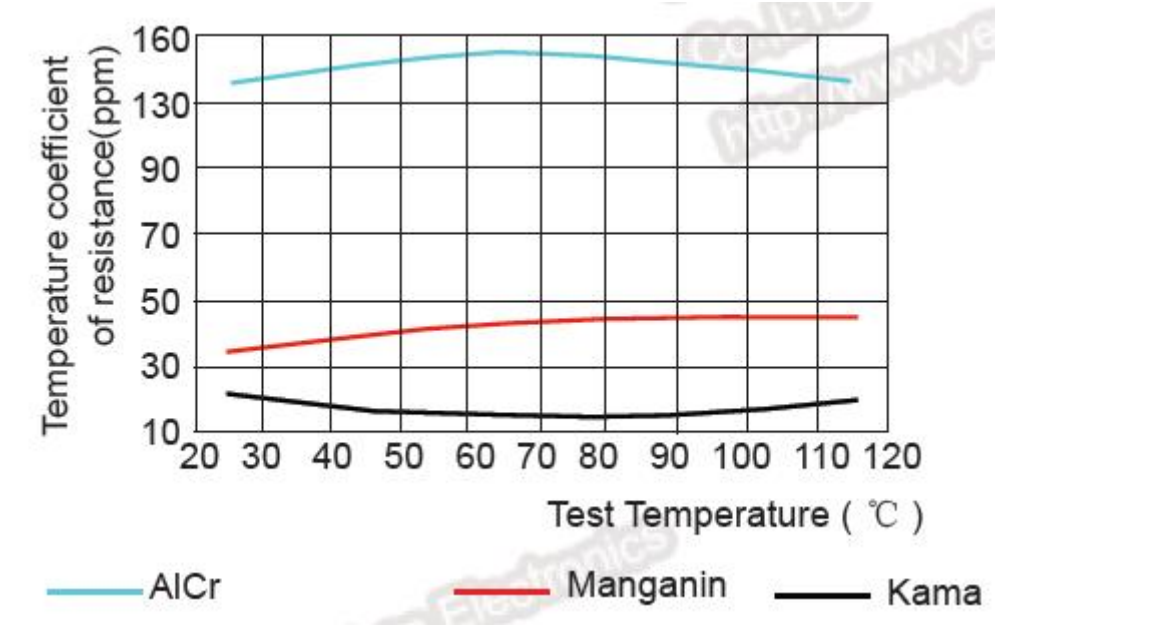
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品 名：分流贴片电阻器 ASR Series Product Name: Alloy Shunt Resistors	Version	1.5
	Page	5-2
2. 一般事项 General 2.1 适用范围 Scope 本承认书适用于深圳市业展电子有限公司 制造之[分流贴片电阻器]。 This specification is available for Alloy Shunt Resistors manufactured by Shenzhen Yezhan Electronics Co., 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±2℃、湿度 65±5%。 但在温度 5~35℃、湿度 45~85%之情况下，仍可给予判定。 Temperature 20±2℃, Humidity 65±5%. Being no doubt about the judgment, measurements can be made within the following Temperature 5~35℃, Humidity 45~85%. 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. ASR YeZhan Type -M Material M: Manganin A: AlCr K: Kama -10 Dimension 3: 2512 4: 2728 5: 3920 7: 5930 10: 其他 -0.1 Resistance Range (mohms) F Tolerance J: ±5% G: ±2% F: ±1% D: ±0.5%		

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品 名 : 分流贴片电阻器 ASR Series	Version	1.5
Product Name: Alloy Shunt Resistors	Page	5-3

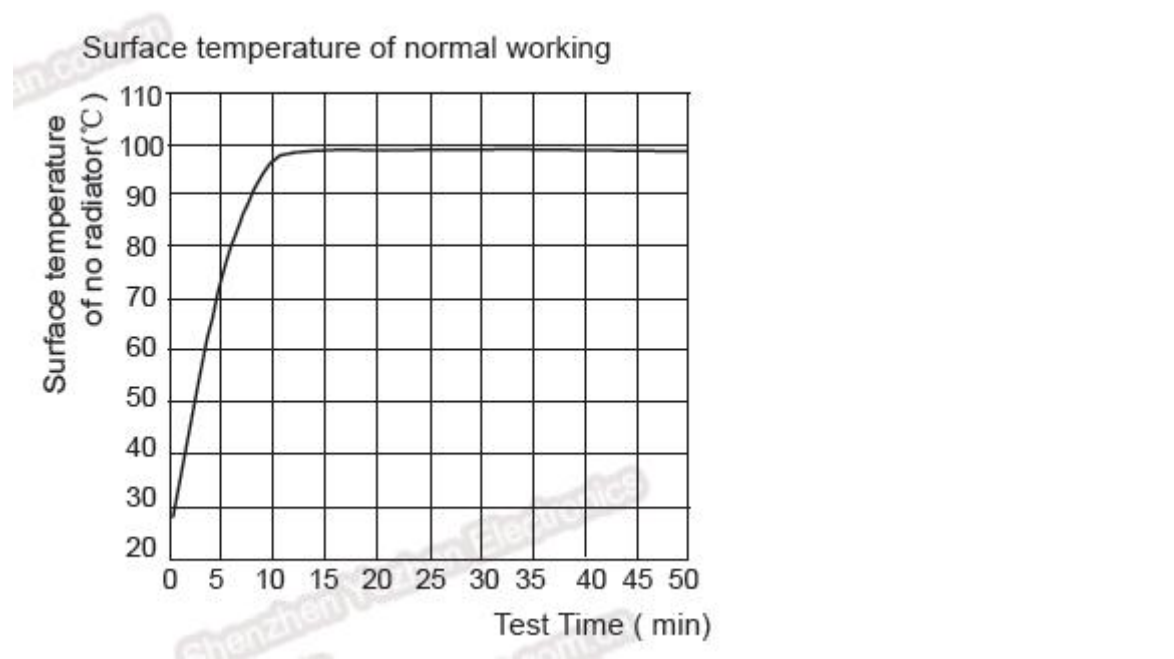
2.5 功率曲线 Power Derating



2.6 温度系数曲线 TCR Derating



2.7 表面温度图 Surface temperature



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	Page	5-4

2.8 外形 External	
项 目	参 数
图 解	The diagram illustrates the physical dimensions of the Alloy Shunt Resistor (ASR). The top view shows a rectangular component with a central grey square (width B, length W) and two orange rectangular pads on either side (width A). The side view shows the component's profile with dimensions D1 (top pad thickness), D2 (bottom pad thickness), h (height), and T (thickness). A maximum height of 1.0mm is indicated on the right side.
W	12.8mm±0.3mm
T	0.9mm±0.2mm
A	6.4±0.2mm
D1	1.0±0.1mm
D2	1.0±0.1mm
h	0.5±0.2mm
B	3.0±0.2mm
阻值	0.1mΩ ±1%
额定功率	5W
使用温度	10℃~80℃

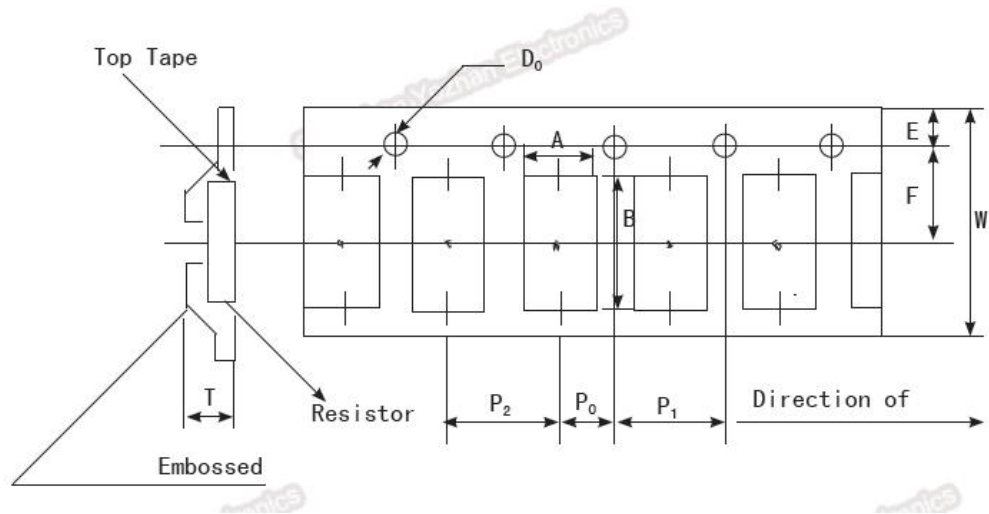
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3 应用范围 Applications

- 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

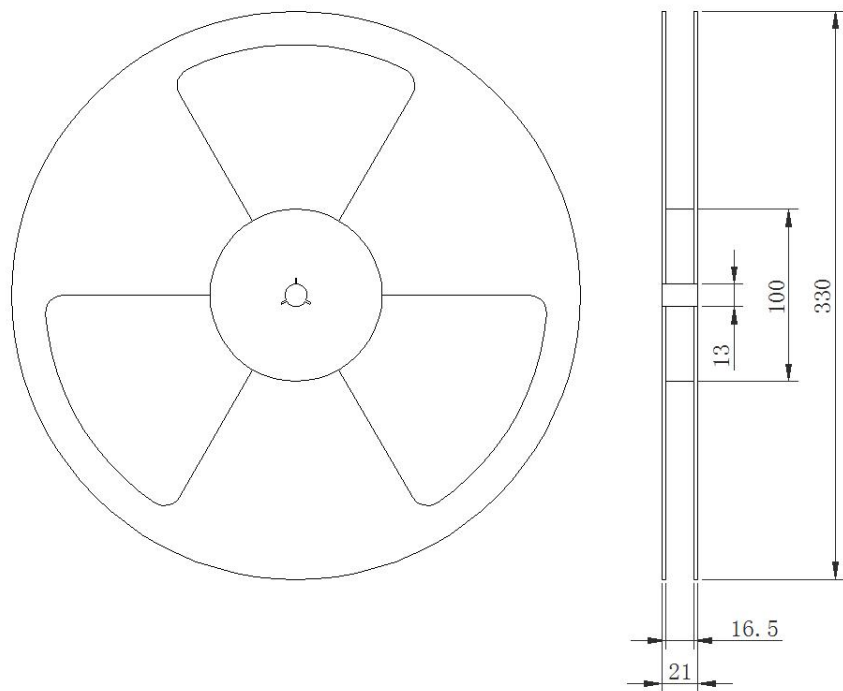
4 包装 Packaging

Embossed plastic Tape Specifications



Unit: mm

Size	A	B	W	E	F	P ₀	P ₁	P ₂	D ₀	T	Quantity
	13.1	6.8	16	1.75	7.5	9.6	19.2	19.2	1.5	1.7	2000



5 工作特性 **Performance Date**

TEST	CONDITIONS OF TESE	TEST LIMITS
Thermal Shock	-55℃ to150℃, 1000cycles, 15min at each extreme	$\pm (1.0\%+0.0005\Omega)\triangle R$
Shot time overload	5xrated power for 5 s	$\pm (1.0\%+0.0005\Omega)\triangle R$
Low temperature storage	-65℃ for 45 min	$\pm (1.0\%+0.0005\Omega)\triangle R$
High temperature exposure	1000 h at +170℃	$\pm (1.0\%+0.0005\Omega)\triangle R$
Bias humidity	+ 85℃, 85%RH, 10%bias, 1000h	$\pm (1.0\%+0.0005\Omega)\triangle R$
Mechanical shock	100 g' s for 6 ms, 5 pulses	$\pm (1.0\%+0.0005\Omega)\triangle R$
Vibration	Frequency varied 10 Hz to 200 Hz in 1 min, 3 directions, 12h	$\pm (1.0\%+0.0005\Omega)\triangle R$
Load life	1000h at +70℃, 1.5h “ON” , 0.5h “OFF”	$\pm (1.0\%+0.0005\Omega)\triangle R$
Resistance to solder heat	+260℃solder, 10s to 12s dwell, 25mm/s emergence	$\pm (1.0\%+0.0005\Omega)\triangle R$
Moisture resistance	MIL-STD-202, method 106, 0% power, 7a and 7b not required	$\pm (1.0\%+0.0005\Omega)\triangle R$