



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

Weld Precision Resistors – SBN Series

产品规格

Product Type

SBN-F-13F-t

申请承认日期

Apply Date

2020-09-12

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 Vendor Stamp	APPROVED	CHECKED	PREPARED	承认印鉴 Stamp
			邓小辉	

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-QR-EN-007
品 名 : 精密焊接电阻 SBN Series Product Name: Weld Precision Resistors	Version	1.6
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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[精密焊接电阻]。
This specification is available for Weld Precision Resistors manufactured by Shenzhen Yezhan Electronics Co., Ltd.

1.2 品质 Quality

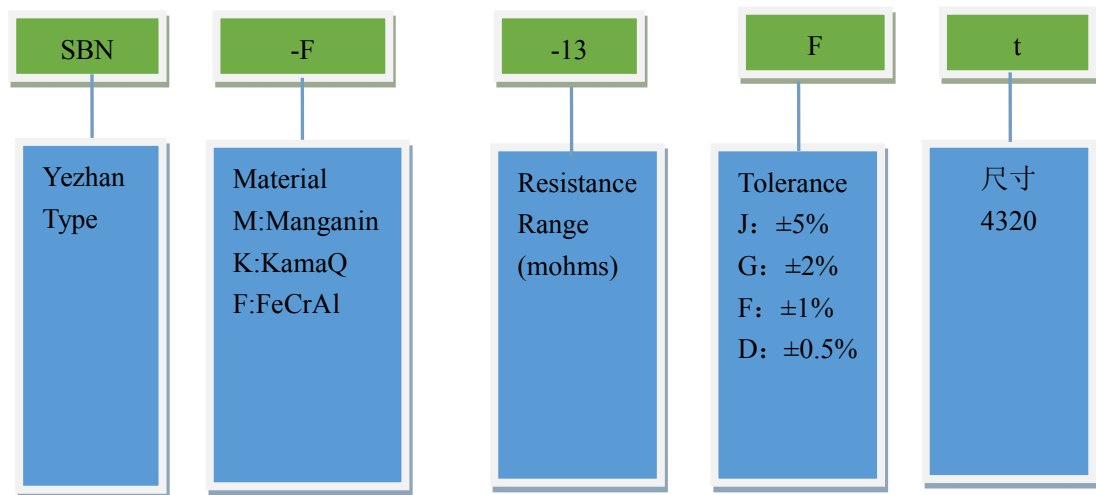
本电阻器的制造系经高质量管理程序, 并具有高信赖性的质量保证, 且符合 RoHS 和无卤要求。
The resistor is manufactured by highly quality-controlled process and guaranteed high reliability, it meets RoHS & Halogen-Free requirement.

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、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.

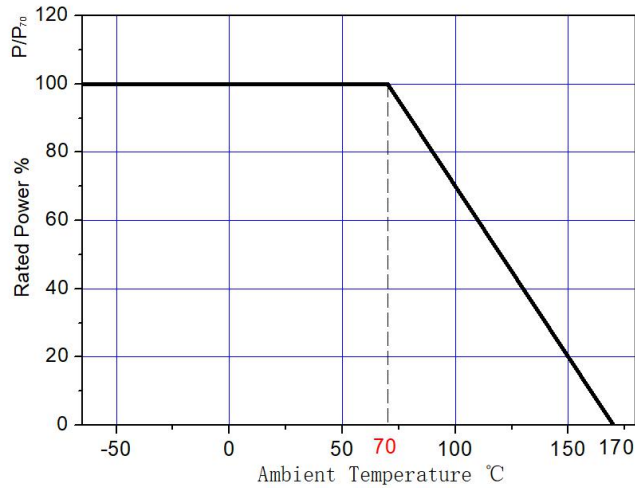


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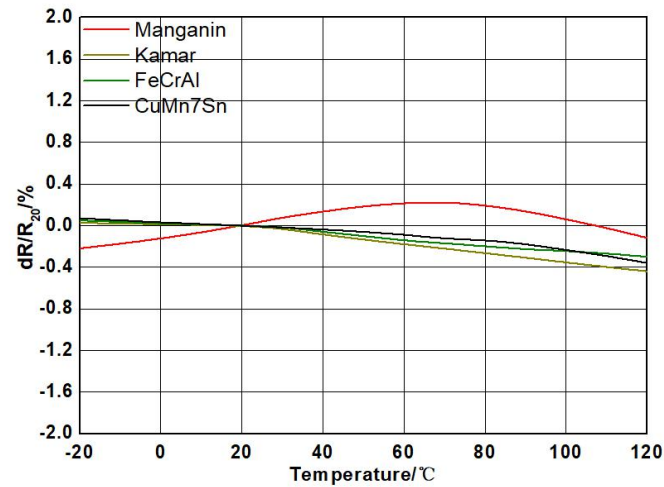
1.5 材质 Material

代号 Symbol	材料 Material	成分 Components	电阻率 Resistance rate
K	卡玛 Kama	Cr 19-21%, Al 2.5-42%, Fe 2.0-3.0%, Ni bal.	133 $\mu\Omega \cdot \text{cm}$
M	锰铜 Manganin wire	Cu 85%, Mn 12%, Ni 3%	44 $\mu\Omega \cdot \text{cm}$
F	铁铬铝 FeCrAl	Cr 21-23%, Al 5.0-7.0% Fe 余量, Re 适量, Nb 0.5%	145 $\mu\Omega \cdot \text{cm}$

1.6 功率曲线 Power Derating



1.7 温度系数曲线 TCR Derating



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1.8外形 External

项 目	参 数
图 解	<p>The diagram illustrates the physical dimensions of the resistor. The top view shows a U-shaped component with a total length W, a gap between the ends B, and a leg length T. The wire thickness is D, and the height of the component is H. A maximum height of 1.0max is also indicated. The side view shows the component's profile with a central recessed area and yellow solder pads on the legs.</p>
H(高度)	$3.1\text{mm} \pm 0.3\text{mm}$
A(线宽)	$6.1\text{mm} \pm 0.4\text{mm}$
D(线厚)	$0.26\text{mm} \pm 0.1\text{mm}$
T(脚长)	$2.8\text{mm} \pm 0.3\text{mm}$
W(全长)	$11\text{mm} \pm 0.5\text{mm}$
B(缺距)	$4.2 \pm 0.5\text{mm}$
阻 值	$13\text{m}\Omega \pm 1\%$
额定功率	5W
使用温度	$-65^\circ\text{C} \sim 170^\circ\text{C}$

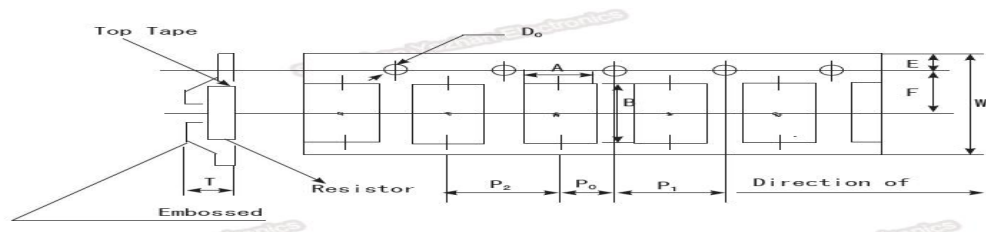
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2 应用范围 Applications

- 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
- 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 ₀	P ₁	P ₂	D ₀	T	Quantity (EA)
4312	4.3	12.5	24	1.55	7.5	6	12	8	1.50	3.8	2000
4320	7.0	12.5	24	1.55	11.2	6	12	12	1.50	3.8	1000

4 工作特性 Performance Date

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

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