



HoLRS 3920 裸露合金系列规格书

HoLRS3920 bare alloy series specification

系列号 Serial number	HoLRS
修订日期 Revision date	2022-06-02
版本号 Version number	Ho-B1

规格书 Specification

制造商: 深圳市毫欧电子有限公司

Manufacturer: Shenzhen Hao Ou Electronics Co., LTD

适用: 本规格书适用于深圳市毫欧电子有限公司裸露合金电阻 HoLRS3920 系列产品选型。

Application: This specification is suitable for the selection of bare alloy resistance HoLRS3920 series products of Shenzhen Hao Ou Electronics Co., LTD.

产品特点 Features:

电子束焊工艺, 焊接性能良好, 易于焊接

Electron beam welding technology, good welding performance, easy to weld

高可靠性, 高过载能力, 产品精度高

High reliability, high overload capacity, high product accuracy

使用温度范围较宽无感型设计, 电感小于 10 纳亨

Wide operating temperature range non-inductive design, inductance less than 10 nH

电阻温度系数 TCR (25 ~ 50 PPM / °C)

Temperature coefficient of resistance TCR (25 ~ 50 PPM / °C)

产品符合 ROHS 要求

Products comply with ROHS requirements

产品符合 AEC-Q200 要求

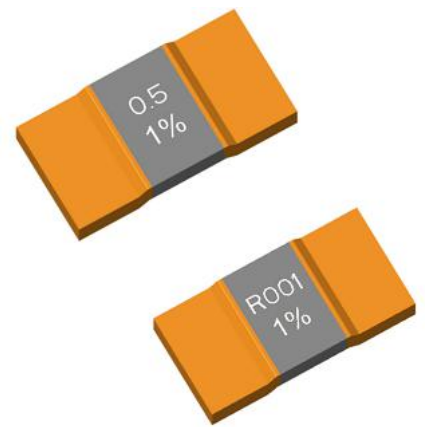
Products comply with AEC-Q200 requirements

产品名称 Product Name

裸露合金电阻 Bare alloy resistance

产品型号 Product number

Ho	LRS	3920	5W	3mR	1%
↓	↓	↓	↓	↓	↓
制造商 manufacturer	产品系列 Product series	封装 encapsulation	额定功率 Rated power	阻值 Resistance value	精度 precision
Ho Milliohm electron	Bare alloy resistance	3920	5W	0.2~5mR	D=±0.5% F=±1% J=±5%



SGS

AEC-Q200

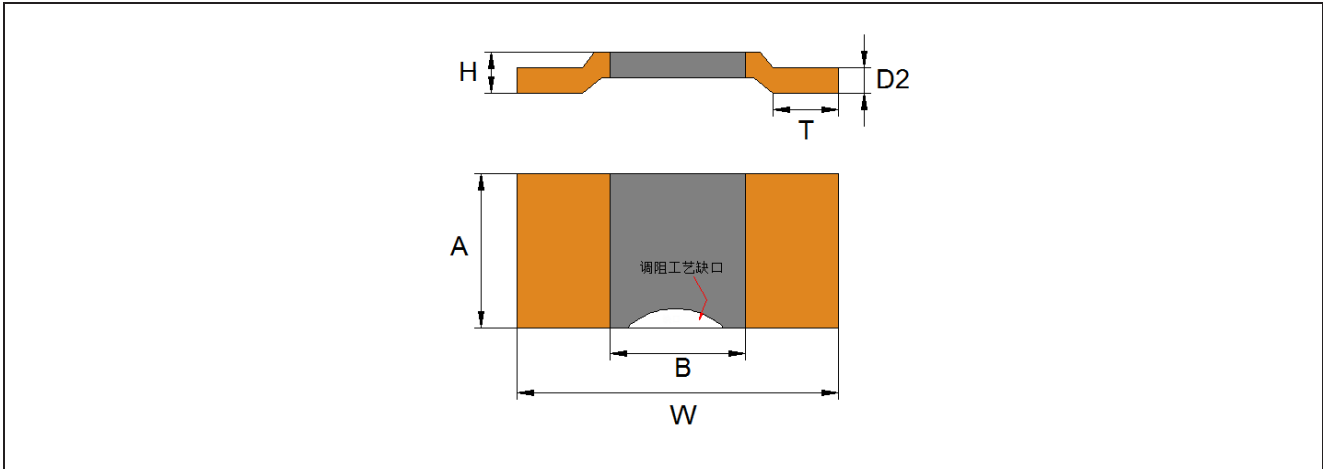


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■ 产品尺寸 ProductSize (Unit:mm)



封装 encapsulation	阻值 Resistance	W	A	B	H	D2	T
3920	0.2mR	10±0.5	5.2±0.5	5±0.5	2.1±0.2	1.66±0.1	2.0±0.5
	0.25mR	10±0.5	5.2±0.5	5±0.5	1.0±0.2	0.4±0.1	2.0±0.5
	0.3mR	10±0.5	5.2±0.5	5±0.5	1.9±0.2	1.38±0.1	2.0±0.5
	0.5mR	10±0.5	5.2±0.5	5±0.5	1.2±0.2	0.74±0.1	2.0±0.5
	0.7mR	10±0.5	5.2±0.5	5±0.5	1.0±0.2	0.56±0.1	2.0±0.5
	1mR	10±0.5	5.2±0.5	5±0.5	1.8±0.2	1.32±0.1	2.0±0.5
					1.6±0.2	1.1±0.1	
	2mR	10±0.5	5.2±0.5	5±0.5	1.1±0.2	0.58±0.1	2.0±0.5
	2.5mR	10±0.5	5.2±0.5	5±0.5	1.1±0.2	0.54±0.1	2.0±0.5
	3mR	10±0.5	5.2±0.5	5±0.5	0.8±0.2	0.44±0.1	2.0±0.5
	4mR	10±0.5	5.2±0.5	5±0.5	0.9±0.2	0.38±0.1	2.0±0.5
5mR	10±0.5	5.2±0.5	5±0.5	0.9±0.2	0.30±0.1	2.0±0.5	

■ 电气参数 Electrical parameter

电阻值 Resistance values (mR)	0.2 to 5
额定功率 Rated power (W)	5
最大额定电流 Max.Rated Current (A)	158
准确度 Accuracy (%)	0.5 to 5
电阻温度系数 TCR (ppm / °C)	25~50
工作温度范围 Operating Temperature Range	-50°C~+170°C
电感值 Inductance (nH)	<10

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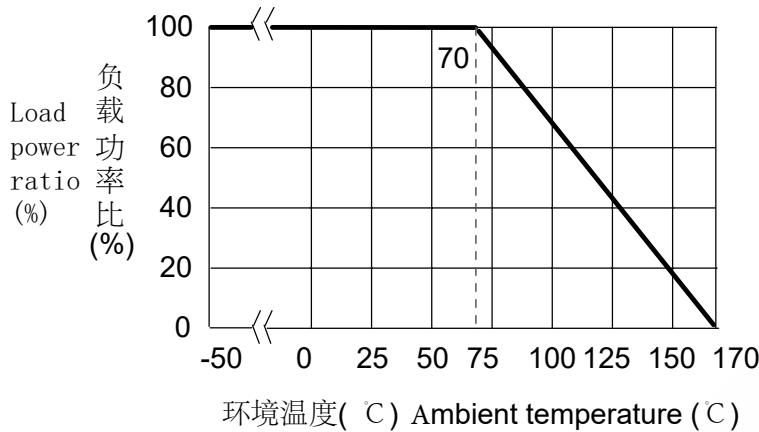
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■ 功率降额曲线 Power curve

操作温度范围 -55 ~+170 °C 电阻温度达到 70°C 时降功率示意图

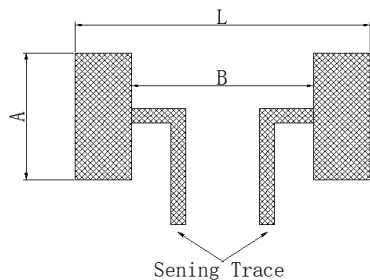
Operating temperature range -55to+170°C Schematic diagram of power reduction when the resistance temperature reaches 70°C



■ 性能测试 Performance Testing

Parameters	Test conditions	Specified values
Temperature Cycling	2000 cycles (-55°C to +150°C)	±0.5 %
Low Temperature Storage and Operation	-65°C for 24 h	±0.1 %
Resistance to Soldering Heat	260°C for 10 sec/8h steam aging	n.a.
Moisture Resistance	MIL-STD-202 method 106	±0.1 %
Mechanical Shock	100 g, 6 ms half sine	±0.2 %
Vibration, High Frequency	20 g, 10-2000 Hz	±0.2 %
Operational Life	2000 h, T _K max at nominal load	±1.0 %, T _K = 130°C
High Temperature Exposure	2000 h/170°C	±1.0 % (in covered condition)*
Bias Humidity	+85°C, 85 r.F., 1000 h	±0.5 %

■ 建议焊盘尺寸 Recommended Solder Pad Dimension



Solder pad type	L	A	B
3920	11	6.2	5.6

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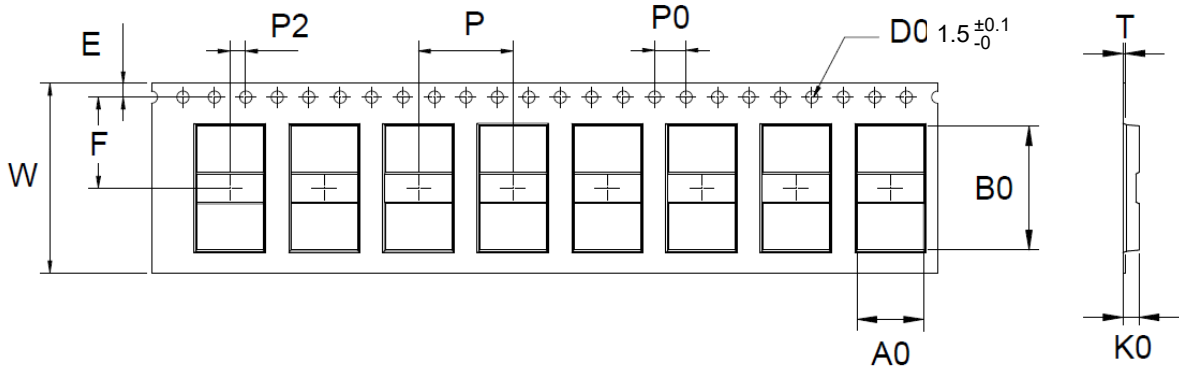
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■ 包装方式 Packing

编带盘装: 2500pcs/盘

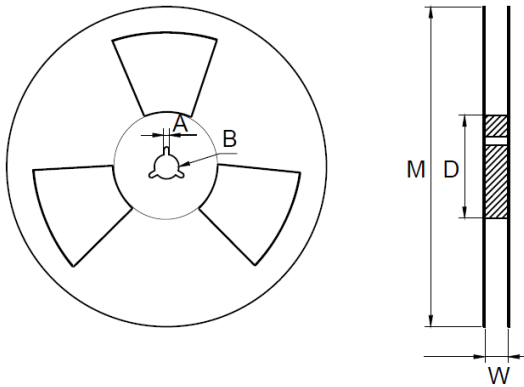
Braid disk loading: 2500pcs/ disk

■ 载带尺寸 Ribbon size (Unit:mm)



A0	B0	W	F	E	T	K0	P	P0	P2
5.55±0.1	10.35±0.1	24±0.3	11.5±0.1	1.75±0.1	0.3±0.05	2.4±0.1	8±0.1	4±0.1	2.0±0.1

■ 卷轴规格 Reel Specification (Unit:mm)



W	M	A	B	D	Packaging Quantity
24±0.5	350±1	2.3±1	13.2±1	100±2	2500PCS

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修改履历表 Revise your resume:

序号 Serial number	修改内容 Modify content	修改日期 Revision date	修改原因 Reason for modification	版本 edition	更改人 Alteration party
1	增加电阻0.25mR Increase resistance by 0.25mR	2021-12-14	新增电阻0.25mR New resistance 0.25mR	A0升级B0 A0 Upgrade B0	黄永康 YongKangHuang
2	增加焊盘尺寸推荐及包装尺寸图 Add pad size recommendations and package size drawings	2022-06-02	内部增加 Internal increase	B0升级B1 B0 Upgrading B1	黄忠亮 ZhongLiangHuang

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