

	HoJLR2512封体合金系列规格书	系列号	HoJLR
		修订日期	2022-03-28
		版本号	Ho-A3

规格书 Specification

制造商:深圳市毫欧电子有限公司

适用:本规格书适用于深圳市毫欧电子有限公司封体合金电阻 HoJLR2512系列产品选型。

■ 产品特点Features

- 合金芯片，封体工艺，焊接性能良好
- 高可靠性，高过载能力，产品精度高
- 使用温度范围较宽无感型设计
- 符合 ROHS 要求和无卤要求

■ 产品名称Product Name

封体合金电阻

■ 产品型号Product number

Ho	JLR	2512	3W	100mR	1%
↓	↓	↓	↓	↓	↓
制造商	产品类别	封装	额定功率	阻值	精度
毫欧电子	封体合金	2512	2W	0.5~10mR	D=±0.5%
			(2W、3W)	0.5~500mR	F=±1% J=±5%

具体参数请查看下页详情



地址：深圳市龙华新区观澜大布头路南通邦高新产业园 A 栋 8 楼



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■ 产品尺寸 Product size (Unit:mm)

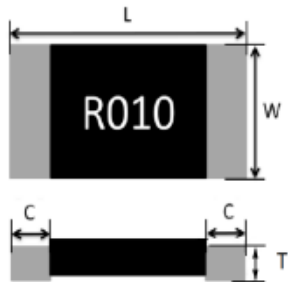


Diagram of a 2512 package resistor labeled R010. The top view shows a black rectangular body with white text 'R010'. The length is labeled L, the width is labeled W. The side view shows the thickness is labeled T, and the distance from the end face to the center of the body is labeled C.

2W-0.5~500mR
3W-1mR~500mR

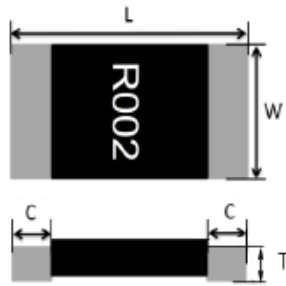


Diagram of a 2512 package resistor labeled R002. The top view shows a black rectangular body with white text 'R002'. The length is labeled L, the width is labeled W. The side view shows the thickness is labeled T, and the distance from the end face to the center of the body is labeled C.

2W-0.5mR~10mR

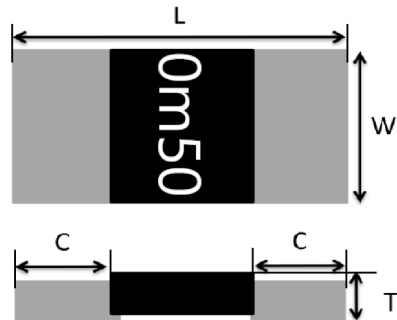


Diagram of a 2512 package resistor labeled 0m50. The top view shows a black rectangular body with white text '0m50'. The length is labeled L, the width is labeled W. The side view shows the thickness is labeled T, and the distance from the end face to the center of the body is labeled C.

3W-0.5mR~1mR

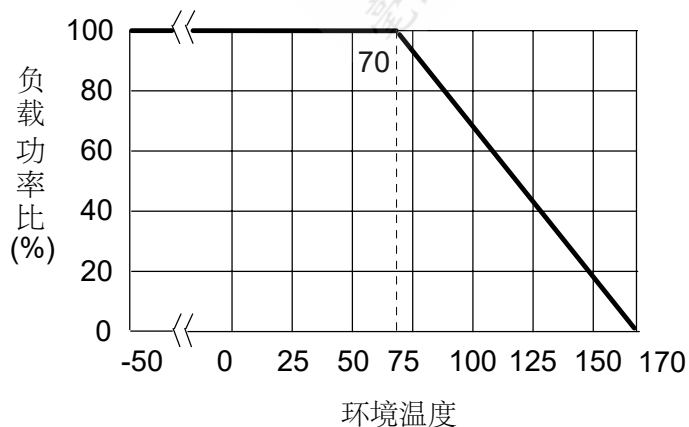
封装	阻值	功率	L	W	C	T
2512	0.5~10mR	2W	6.4 ± 0.2	3.2 ± 0.2	0.9 ± 0.2	0.6 ± 0.2
	1~500mR	2W、3W	6.4 ± 0.2	3.2 ± 0.2	0.9 ± 0.2	0.7 ± 0.2

■ 电气参数 Electrical parameter

额定功率 Rated power	2W、3W
阻值范围 Resistance range	0.5mR~500mR
最大额定电流 Max.Rated Current	2.45A~77.45A
准确度等级 AccuracyClass	0.5%、1%、5%
电阻温度系数 T.C.R (ppm / °C)	± 50 (2mR~500mR)、 ± 100 (0.5mR~1mR)
工作温度范围 Operating Temperature Range	-50°C~+170°C

■ 功率曲线 Power curve

操作温度范围 - 50 ~ +170 °C 电阻温度达到 70°C 时降功率 示意图



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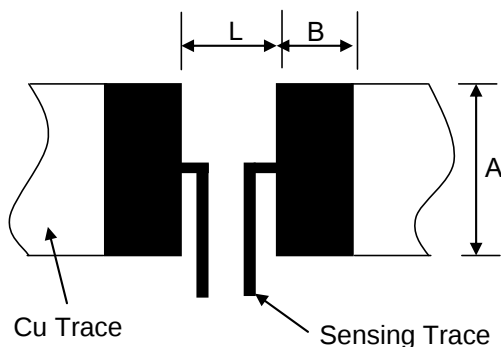
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- 额定电流计算公式 The rated current is calculated by the following Formu

$$I = \sqrt{P/R}$$

I:Rated Current (A)
P:Rated Power (W)
R:Resistance Value (Ω)

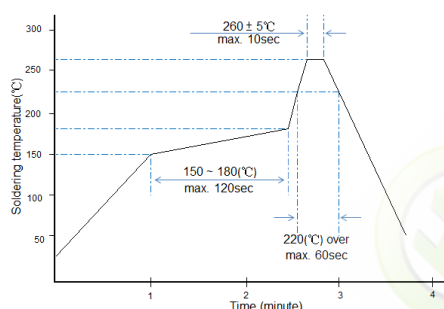
- 建议焊盘尺寸 Recommended Solder Pad Dimension (Unit:mm)



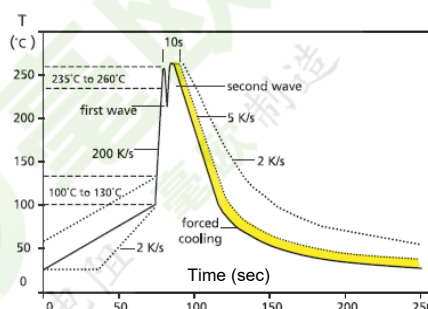
封装	阻值mR	A	L	B
2512	0.5~500	4.0	4.1	2.1

- 建议焊接参数 / Recommended Customer Soldering Parameters

预热: 150 to 180 °C, 90 ± 30秒, 焊接区: 230 °C 或更高, 30 ± 10 秒 峰值: 260 ± 5 °C, 5秒.

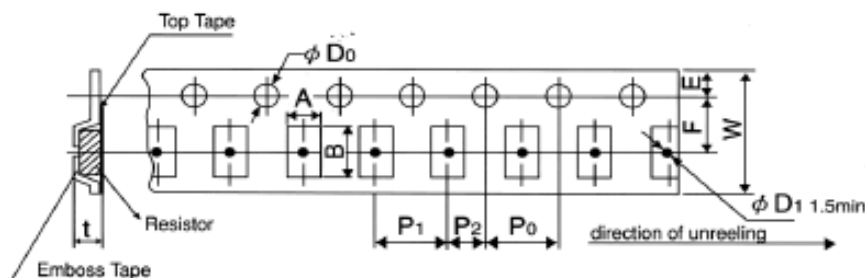


回流焊曲线图



波峰焊曲线图

- 载
- 带尺寸 Ribbon size (Unit:mm)



A	B	W	F	E	P1	P2	P0	D0	T
3.6±0.2	6.9±0.2	12±0.2	5.5±0.05	1.75±0.1	4.0±0.1	2±0.05	4±0.05	Φ 1.5±0.1	0.85±0.15

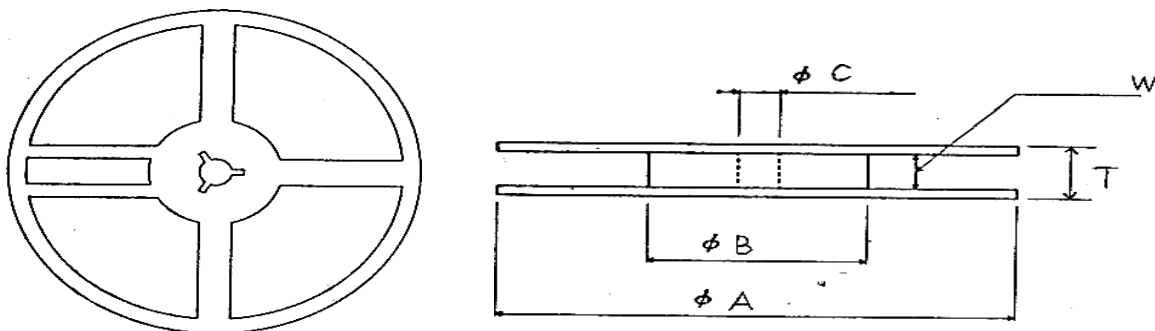
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■ 卷轴规格 Reel Specification



Φ A	Φ B	Φ C	W	T	Packaging Quantity
178±2	60±1	13±1	9±1	15.4±2	4000PCS

■ 可靠性测试 Reliability Tests

Test Items	Reference standard	Condition of Test	Test Limits
Temperature Coefficient of Resistance	IEC60115-1-4.8 JIS-C5201-4.8	+25℃ ~ +125℃	Refer 4.0
Load Life	IEC60115-1-4.25.1 JIS-C5201-4.25.1	1000hours at rated power, 70℃, 1.5hours "ON", 0.5hour "OFF"	< ±1%
Short Time Overload	IEC60115-1-4.13 JIS-C5201-4.13	2 X rated power for 5s	< ±1%
Moisture no Load	IEC60115-1- 4.24.2.1a) JIS-C5201- 4.24.2.1a)	85℃, 85%RH, 1000hrs	< ±1%
Temperature cycle	IEC60115-1-4.19 JIS-C5201-4.19	-55℃ & +155℃, 100cycle, 15min per extreme condition	< ±1%
Resistance to Soldering Heat	IEC60115-1-4.18 JIS-C5201-4.18	260±5℃ for 10±1 sec	< ±0.5%
Solderability	IEC60115-1-4.17 JIS-C5201-4.17	245±5℃, 2±0.5sec	At least 95% of surface area of electrode shall be covered with new solder
High Temperature Exposure	IEC60115-1- 4.23.2 JIS-C5201-4.23.2	155℃, 1000hrs	< ±1%
Low Temperature Storage	EC60115-1- 4.23.4 JIS-C5201-4.23.4	-55℃, 1000hrs	<±1%
Substrate Bending	IEC60115-1-4.33 JIS-C5201-4.33	Bending width 2mm	< ±0.5%
Insulation Resistance	IEC60115-1-4.6 JIS-C5201-4.6	100V DC for 1 minute	>100 MΩ

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修改履历表:

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