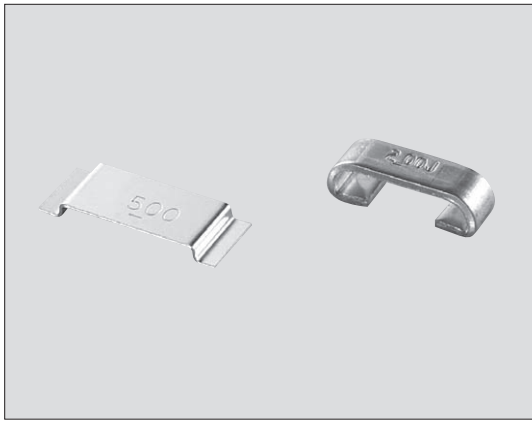
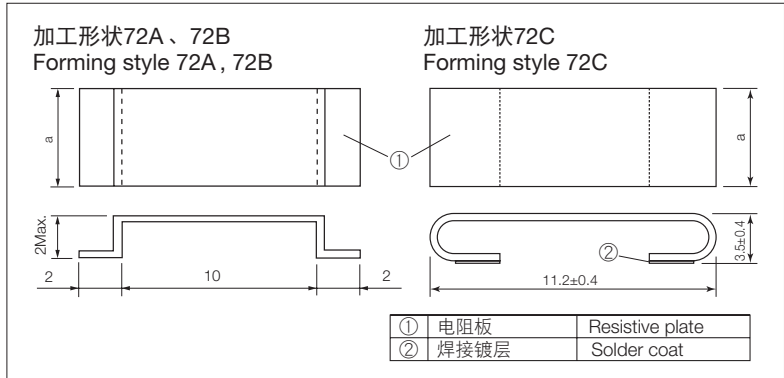


LR72 定制表面封装型毫欧电阻器 Surface Mount Type Custom Milliohm Resistors

电流检测电阻器
Current Detecting Chip Resistors



■ 结构图 Construction



■ 特点 Features

- 超低电阻值 (2mΩ)，适用于大电流的检测。
- 全部是定制品。
- 容易焊接，适合回流焊接。
- 是无感型。
- 可自动安装。
- 端子无铅品，欧盟RoHS对应品。
- The super low resistance (2mΩ ~) is suitable to detect large current.
- All custom-made products.
- Easy soldering. Applicable for reflow soldering.
- Non-inductive type.
- An automatic mounting machine is applicable.
- Products with lead free termination meet EU-RoHS requirements.

■ 外形尺寸 Dimensions

型号 Type	尺寸 Dimensions (mm)	
	a	
LR72A	5.2±0.2	
LR72B	3.0±0.2	
LR72C	3.2±0.4	

■ 品名构成 Type Designation

实例 Example

LR	72	A	N	TE	2L0	J
品种 Product Code	成份符号 Element Symbol	加工形状 Process Style	端子表面材质 Terminal Surface Material	编带 Taping	公称电阻值*2 Nominal Resistance	阻值允许偏差 Resistance Tolerance
	72: A, B, C-Style	A B C	N: 无备用焊剂*1 N: Non-presolder*1 D: SnAgCu*2	TE: Taping	3 digits	J: ±5%

*1 无备用助焊剂的类型，以A、B式样为限。 Only A and B styles are non-presolder type.

*2 只有C式样是SnAgCu Oniy C style is SnAgCu type.

*3

电阻值范围 (Ω) Resistance Value	3位显示 3 digits
2m~8m	2L0~8L0

欲知关于此产品含有的环境负荷物质详情(除EU-RoHS以外)，请与我们联系。

编带细节请参考卷末附录C。

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS.

For further information on taping, please refer to APPENDIX C on the back pages.

■ 额定值 Ratings

型号 Type	符号 Symbol	额定功率*3 Power Rating	可生产的 电阻值范围*4 Resistance Range (mΩ)	阻值允许偏差 Resistance Tolerance	电阻温度系数 T.C.R. (×10 ⁻⁶ /K)	规定周围温度 Rated Ambient Temperature	使用温度范围 Operating Temperature Range	编带和包装数/卷 Taping & Q'ty/Reel (pcs)
								TE
LR72A	72	0.5W	2~8	J: ±5%	±100	+70℃	-40℃~+180℃	2,000
LR72B	72	0.25W	3~5					1,500
LR72C	72	1W	2, 3					1,500

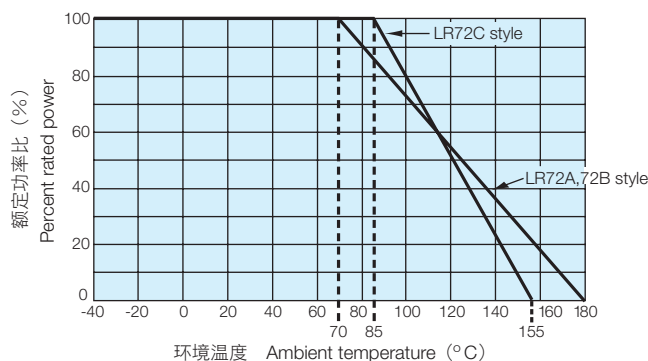
*4 基板材质使用玻璃环氧树脂(FR-4)时的额定功率。

*4 Rated power in case of glass epoxy resin (FR-4) is used for the substrate material.

*5 由于是定制品，关于电阻值，应在事前商谈。 *5 Please consult with us in advance about resistance value for custom-made products.

除上述产品外，也可供应其它形状和电阻值的产品。 Other shapes and resistances than the above are also available on request.

■ 负荷减轻特性曲线 Derating Curve



在环境温度70℃以上使用时，应按照上图负荷减轻特性曲线，减小额定功率。

For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the above derating curve.

■ 性能 Performance

试验项目 Test Items	标准值 Performance Requirements ΔR±%		试验方法 Test Methods
	保证值 Limit	代表值 Typical	
电阻值 Resistance	在规定的允许偏差内 Within specified tolerance	-	25°C
电阻温度系数 T.C.R.	在规定的允许偏差内 Within specified T.C.C.	-	室温/100°C Room temperature + 100°C
耐焊接热 Resistance to soldering heat	2	1.6	350°C ± 10°C, 3s
耐湿负荷 Moisture resistance	5	4.5	Power rating × 1/10, 40°C, 90%~95%RH, 1000h 1.5小时ON/0.5小时OFF周期 1.5h ON/0.5h OFF cycle
在70°C时的耐久性 Endurance at 70°C	5	4.5	额定负荷, 70°C, 1000小时, 1.5小时ON/0.5小时OFF的周期 Rated voltage, 70°C, 1000h, 1.5h ON/0.5h OFF cycle

■ 使用注意事项 Precautions for Use

- 作为分流电阻使用时，应考虑和周围线圈的电磁感应后，配置模式。
- 在50mΩ以下的电阻值，由于焊盘图案的大小和接续助焊剂的量，焊接后的电阻值会有变动。应在事前确认电阻值降低·升高的影响后，再设计设备
- In case of using the low ohm resistors as shunt resistors, please lay out a pattern considering the electromagnetic induction with surrounding inductors.
- In the resistance values of 50mΩ or under, the resistance value after soldering may change depending on the size of pad pattern or solder amount. Make sure the effect of decline/increase of resistance value before designing.