

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 Ultra Low Ohm Chip Resistors – YLR-W Series
制造商料号
Manufacture P/N YLR12-3-5F-W
申请承认日期
Apply Date 2019-07-02 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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深圳市业展电子有限公司
Shenzhen Yezhan Electronics Co.,Ltd

电流采样晶片电阻 Ultra Low Ohm Chip Resistors

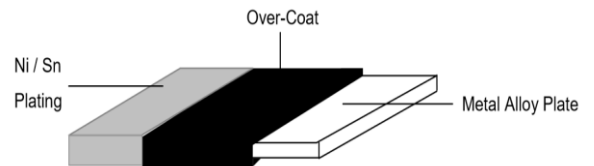
★特征 Features

- 阻值范围 Resistance value: 0.5mΩ~51mΩ
- 精度 Tolerance: ±1%、±2%、±5%
- 功率 Power: 2W 3W
- 温度系数 Temperature coefficient : ±50ppm/°C ,
- 工作温度范围 Operating temperature range: -65°C~170°C
- 定做特殊规格 Customized special specification size



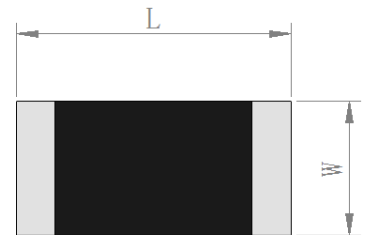
★用途 Applications

- 过流保护 Over current protection
- 电流取样 Current sense applications
- 伺服电机控制电路 Servo motor control circuits
- 智能功率模块 Intelligent power modules
- 工业电脑模块及精密测量系统 industrial PC modules and precision measurement system
- 高速 CPU 外围设备中电流检测电路 Current detection circuits in high-speed CPU peripherals



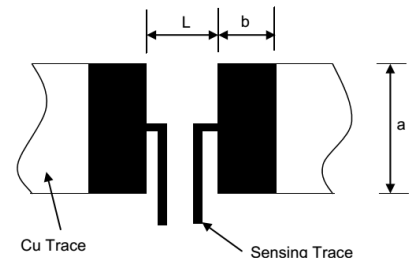
★尺寸 Size

| Type | L /mm | W /mm | A /mm | D /mm | resistance /mΩ |
|------|----------|----------|----------|----------|-------------------|
| 2512 | 6.35±0.2 | 3.2±0.2 | 1.7±0.2 | 0.8±0.1 | ≤4 |
| | | | 0.9±0.2 | | >4 |



★推荐焊接尺寸 Recommend Solder Pad Dimension

| Resistance range /mΩ | Dimensions | | |
|-------------------------|------------|------|------|
| | a/mm | b/mm | L/mm |
| ≤4 | 4.0 | 3.1 | 1.3 |
| >4 | | 2.1 | 4.1 |



★印字标识 Marking

R001=1mΩ R050=50mΩ

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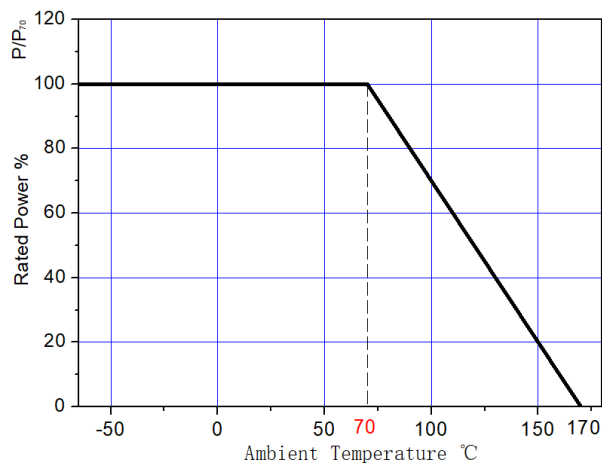
电流采样晶片电阻
Ultra Low Ohm Chip Resistors

★工作特性 Performance Characteristics

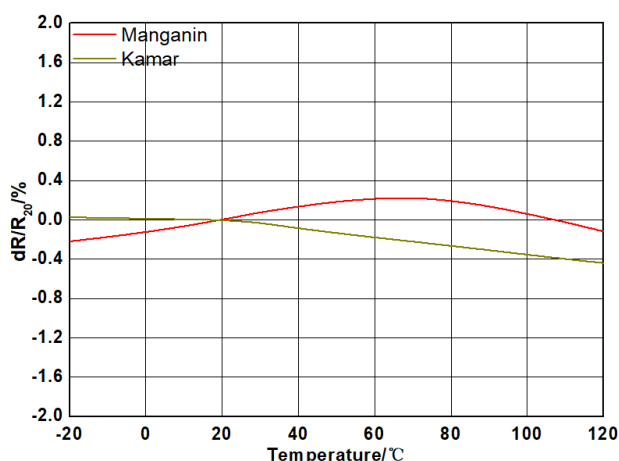
| Items | Additional Requirements | Reference | Limits |
|------------------------------|--|---------------------------|----------------------|
| Temperature Cycling | 1000 Cycles(-55℃ to +125℃) Measurement at 24±2hours after test conclusion | JESD22 Method JA-104 | ±0.5% |
| High Temperature Exposure | 1000hrs.@T=125℃.Unpowered. Measurement at 24±2hours after test conclusion | MIL-STD-202 Method 108 | ±1% |
| Moisture Resistance | t=24hrs/cycle.Note:Steps 7a & 7b not required. Unpowered. Measurement at 24±2hours after test conclusion | MIL-STD-202 Method 106 | ±0.5% |
| Biased Humidity | 1000hrs 85℃/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℃ at rated power. Measurement at 24±2hours after test conclusion | MIL-STD-202 Method 108 | ±1% |
| Solderability | 235℃±5℃,2s±0.5s | J-STD-202 | 95% Coverage Minimum |
| Vibration | 5 g's for 20 min, 12 cycles each of 3 orientations. Note: Use 8"X5" PCB .031" thick 7 secure points on one long side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000 Hz. Measurement at 24±2hours after test conclusion | MIL-STD-202 Method 204 | ±0.5% |
| Resistance to Soldering Heat | 260℃±5℃, 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 201 | ±0.5% |

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★功率曲线 Power Derating Curve

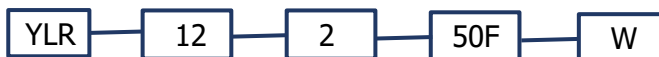


★温度系数曲线 Temperature Coefficient of Resistance Curve



★订购信息 Ordering Date

产品型号 Model



规格型号 Type

12: 2512

额定功率 Rated Power

2:2W

阻值 Resistance

50F: 50mΩ 1%精度

W: 其他

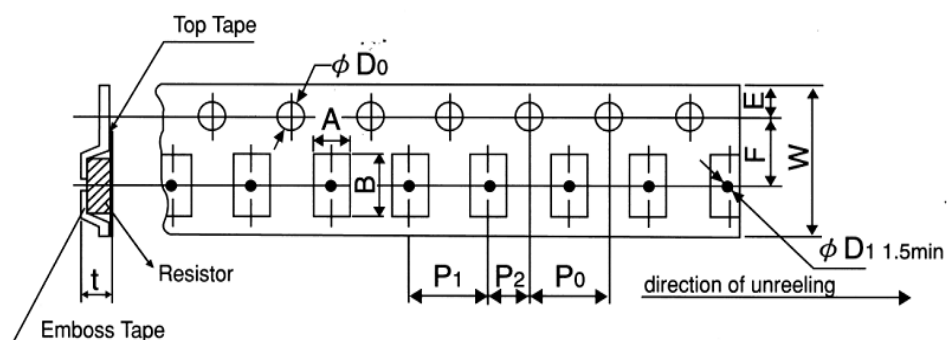
电流采样晶片电阻 Ultra Low Ohm Chip Resistors

★包装方式 Embossed Plastic Tape Specifications

储藏条件 Storage Conditions: Temperature:5℃~35℃, Humidity:40%~75%

包装数量 Number of Package

3000 个/盘 3000 Pieces / Package



| Items | Type | A | B | W | F | E | P ₁ | P ₂ | P ₀ | D ₀ | t |
|-------|---------|-----|-----|----|-----|------|----------------|----------------|----------------|----------------|-----|
| Size | YLR2512 | 3.6 | 6.9 | 12 | 5.5 | 1.75 | 4.0 | 2.0 | 4.0 | Φ1.5 | 1.2 |

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