



# 产品承认书 SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRALT453229M-381-T001

我司品名:

OUR PART NAME

Lan Transformer

送样日期:

DATE SAMPLES

数量:

QUANTITY

## 制造确认 MANUFACTURER APPROVE

| 拟制 DRAWN   | 审核 CHECKED | 确认 APPROVED |
|------------|------------|-------------|
| HuFangting | RaoPin     | Zhongcuilan |

## 客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

规格型号 DESCRIPTION:

XRALT453229M 380uH 1:1

检查结果: ☐ 合格 ☐ 不合格

签名及盖章:

INSPECT RESULT ACCEPT REJECT

SIGNATURE AND STAMP

说明 REMARK:

如对本承认书内容有异议请提出或标记发送至我司, 本承认书在未收到异议回复时于本承认书提供一周后生效。

If you have any objection to the contents of this acknowledgement, please put forward or mark it and send it to our company. This acknowledgement will take effect one week after it is provided if you do not receive an objection reply.

东莞市祥如电子有限公司

Dongguan xiangru electronics co., ltd

Tel: 0769-86346548 Fax: 0769-86346358

Email: dgxiangru@126.com



## 修订记录 Revision record

[illegible]

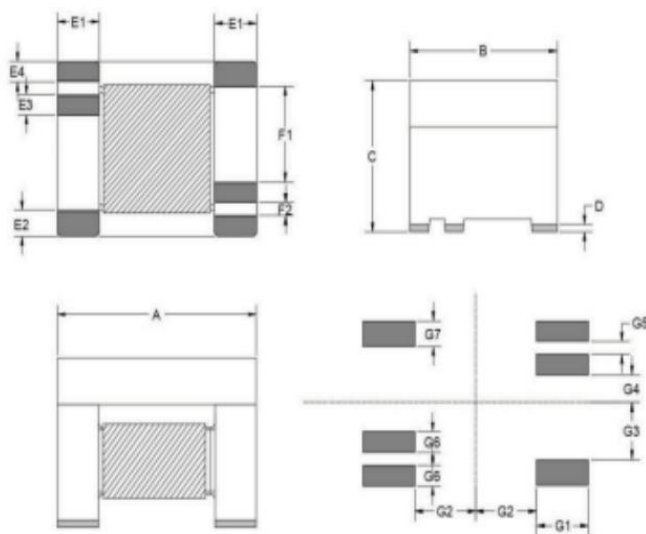
## 产品承认书 SPECIFICATION FOR APPROVAL

|                        |                       |                       |                        |
|------------------------|-----------------------|-----------------------|------------------------|
| 客户名称<br>CUSTOMER       |                       | 日期<br>DATE            | 2025/9/10              |
| 客户物料编号<br>CUSTOMER P/N |                       | 客户规格型号<br>DESCRIPTION | XRALT453229M 380uH 1:1 |
| 我司物料编号<br>OUR PART NO  | XRALT453229M-381-T001 | 我司品名<br>OUR PART NAME | Lan Transformer        |

### 1.Features (产品特性)

- 1.Compliant with ROHS requirements
- 2.Compliant with Halogen Free requirement
- 3.Compliant with IEEE 802.3an standard
- 4.Operating temperature -40℃ to +110℃
- 5.Support LAN interface for network equipment, communication equipment

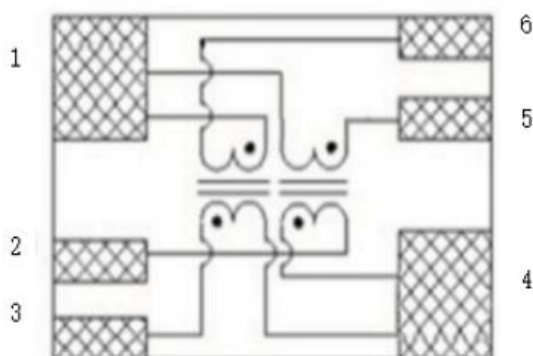
### 2.Dimensions (外形尺寸) mm:



| Series | XRALT453229M |
|--------|--------------|
| G1     | 1.2          |
| G2     | 1.3          |
| G3     | 1.1          |
| G4     | 0.5          |
| G5     | 0.25         |
| G6     | 0.45         |
| G7     | 0.55         |
|        |              |

| Series       | A        | B        | C      | D    | E1   | E2  | E3  | E4  | F1   | F2   |
|--------------|----------|----------|--------|------|------|-----|-----|-----|------|------|
| XRALT453229M | 4.6±0.25 | 3.2±0.25 | 2.9max | 0.15 | 0.97 | 0.5 | 0.4 | 0.4 | 1.65 | 0.25 |

### 3.Schematic DiagramA





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4.ELECTRICAL SPECIFICATIONS @25°C

|                       |                    |                                               |                                               |                           |               |                                            |                                 |
|-----------------------|--------------------|-----------------------------------------------|-----------------------------------------------|---------------------------|---------------|--------------------------------------------|---------------------------------|
| A&F Part<br>Number    | Turns Ratio<br>±5% | 0CL 100K/0.1V8mA<br>DC(uH Min)<br>-25℃T0+110℃ | 0CL.100K/0.1V8m<br>A DC(uH Min)<br>-40℃T0-25℃ | CW/W:100K/0.1<br>V PFMax) | PoB<br>Rating | Leakage<br>Inductance<br>100k/0.1v(uH Max) | Hi-pot (Vrms<br>1mA<br>60S Min) |
| XRALT453229M-381-T001 | 1:1                | 380                                           | 300                                           | 35                        | NoN-PoB       | 0.5                                        | 1500                            |

| Insertion Loss (dB Typ.) |            | Rturn Loss(dB Typ.) |
|--------------------------|------------|---------------------|
| Max                      |            | Min                 |
| 1-100Mhz                 | 100-125Mhz | 1-100Mhz            |
| -0.8                     | -1.0       | -10                 |



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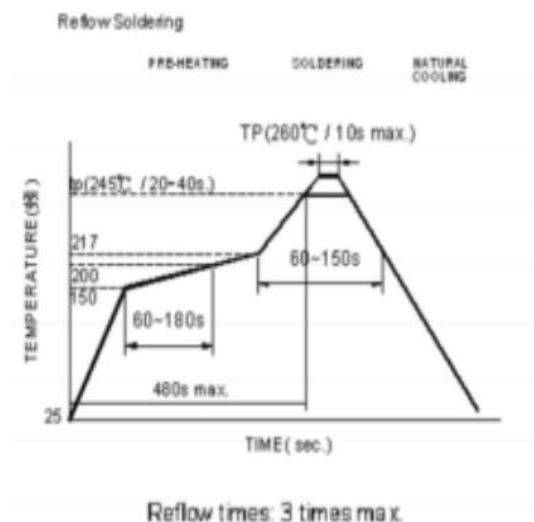
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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------|
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| Reliability test       |                                                                                                                                      |                                                                                 |                        |
| 实验项目                   | 实验条件                                                                                                                                 | 测试设备                                                                            | 实验结果                   |
| IR测试                   | 1)Ta=260℃ Min 10sec, 230℃30~60sec<br>2)Test cycle:3 times                                                                            | 1, Test equipment:Hot reflow Machine<br>2,Test equipment:TH2829AX-24            | Passed                 |
| 冷热冲击                   | 1)Ta- 40degree C~125degree C.30minuter/step.<br>2) Test cycle:168cycles.                                                             | 1, Test equipment: Thermal Shock test.<br>2, Test equipment:TH2829AX-24         | Passed                 |
| 高温高湿                   | 1)Ta=85C humidity:85%R.H<br>2) Test cycle: 168H                                                                                      | 1, Test equipment:High Temperatur e&Humidity.<br>2,Test equipment:TH2829AX-24   | Passed                 |
| 高温存储                   | 1)Ta=125℃ degree<br>2) Test cycle: 168H                                                                                              | 1, Test equipment:Baking Oven<br>2, Test equipment:TH2829AX-24                  | Passed                 |
| 低温存储                   | 1)Ta-40℃ degree<br>2) Test cycle: 168H                                                                                               | 1,Test equipment: Temperature Humidity Chamber<br>2, Test equipment:TH2829AX-24 | Passed                 |
| 跌落实验                   | 1)height: 1.0M. Falling 6 surfaces respectively is acycle and falling10 cycles in total                                              | 1, Test equipment:TH2829AX-24                                                   | Passed                 |
| 推力测试                   | 1) apply a force (3216>9.8N&2012>5N)to the side of a device<br>2)This force shall be applied for 60+1seconds                         | 1,Test equipment: MT2101                                                        | Passed                 |
| 震动实验                   | 1).Amplitude:0.75mm(Sine wave)<br>2).Frequence:10~55~10Hz<br>3).Direction: X,Y,Z<br>4).Duration: 2 Hours Each Direction              | 1, Test equipment:Vibration Machine<br>2, Test equipment:TH2829AX-24            | Passed                 |
| 可焊性                    | 1).Soldering temperature 245 ℃, soldering time 3 seconds<br>2).soldering once, confirm whether the solder joints are full and smooth | 1, Test equipment:Hot reflow Machine                                            | Passed                 |
| 试验前测试                  | 1).Reference specifications                                                                                                          | 1, Test equipment:TH2829AX-24                                                   | Passed                 |
|                        |                                                                                                                                      |                                                                                 |                        |

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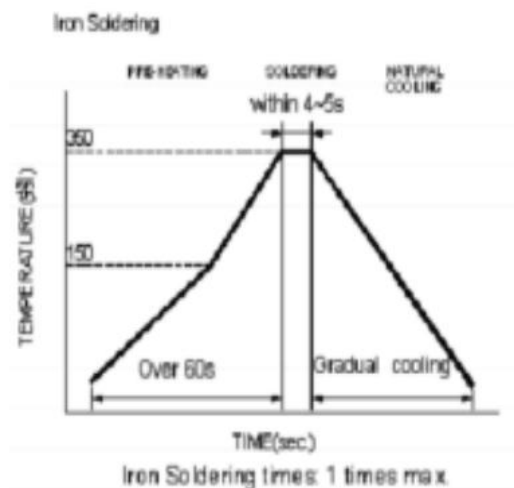
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### RECOMMEND REFLOW SOLDERING CURVE:

#### 1. Lead Free Solder re-flow



#### 2. Soldering Iron



#### Maintenance of heat gun (for your reference)

Power output 30W

Temperature: 350°C Max

Heat time: More than 5 seconds heating may cause short circuit of parts. And poor adhesive property of resin, meanwhile, the external force produced by heat gun could lead to separation between magnetic core and lid.

#### Iron Soldering Profile

Iron soldering power: 30W Max.

Preheat condition: 150°C/60sec.

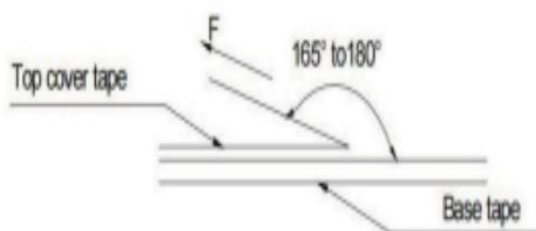
△Soldering tip temperature: 350°C Max.

△Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Iron Soldering time: 1 time max

#### Tearing Off Force:



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions

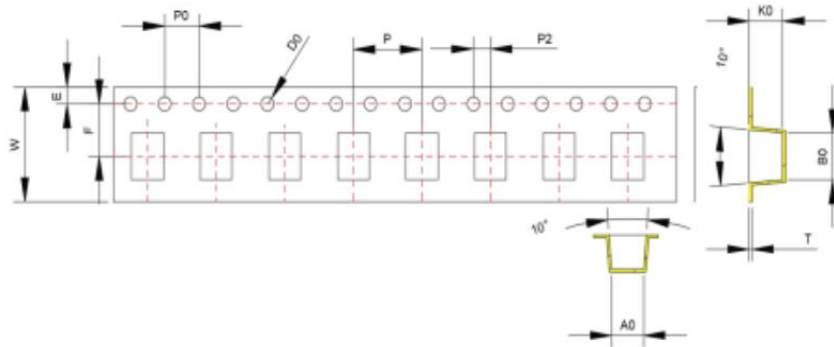
| Room Temp.<br>(°C) | Room Humidity<br>(%) | Room atm(hPa) | Tearing Speed<br>mm/min |
|--------------------|----------------------|---------------|-------------------------|
| 5~35               | 45~85                | 860~1060      | 300                     |

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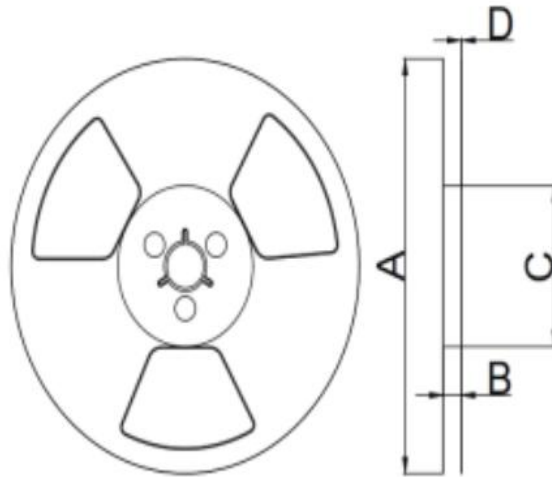
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TAPE AND REEL SPECIFICATIONS(mm):



| ITEM | W    | A0    | B0    | K0    | E    | F    | D0   | P0   | P    | P2   | T     |
|------|------|-------|-------|-------|------|------|------|------|------|------|-------|
| DIM  | 12   | 3.7   | 4.88  | 3.6   | 1.75 | 5.5  | 1.5  | 4    | 8    | 2    | 0.3   |
| TOLE | ±0.3 | ±0.15 | ±0.15 | ±0.15 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.05 |

Reel Dimension(mm):



| Type    | A     | B        | C     | D     |
|---------|-------|----------|-------|-------|
| 13*12mm | 330±2 | 12.5±0.8 | 103±2 | 2.0±2 |