# 深圳市一络电子有限公司

Shenzhen Yiluo Electronics Co., Ltd.

## 产 品 承 认 书

*SPECIFICATION FOR APPROVAL*

| | |
|---|---|
| 客户名称 *CUSTOMER NAME.* | --------- |
| 产品类型 *PRODUCT TYPE* | Common Mode Line Filter |
| 客户料号 *CUSTOMER P/N* | --------- |
| 一络料号 *NET P/N* | YLRI-5020-02A(SERIES) |
| 文件编号 *FILE NO.* | NET-WI-E-122 |

| 客户承认/*CUSTOMER ACCEPTED* | | |
|---|---|---|
| 承 认 *APPROVED* | 确 认 *CHECKED* | 承 办 *DESIGN* |
| | | |
| 批注/*REMARK* | | |

| 批 准 *APPROVED* | 确 认 *CHECKED* | 作 成 *DESIGN* |
|---|---|---|
| Justin | Anna | Stephanie |

公司名称：深圳市一络电子有限公司
业务专线：13528791609
地址：深圳市宝安区沙井运华时代

# 产品承认书/SPECIFICATION FOR APPROVAL

| 客户名称 CUSTOMER | --------- | 客户品名 CUSTOMER P/N | --------- | 版别 REV. | A1 |
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修改记录/*MODIFY RECORDS*

| 版别 REV. | 日期 DATE | 修 改 内 容 MODIFY CONTENT | 拟制 DRAWING | 审核 CHECKED | 批准 APPROVED |
|---|---|---|---|---|---|
| A0 | 2023/10/18 | 为应对新系统，版本升级，完善承认书内容 | Zoe | Joey | Robben |
| A1 | 2024/4/16 | 1) YLRI-5020-251Rated Current由4.5(A)Max改为5(A)Max<br>2)按标准更新Operating Temperature温度。 | Stephanie | Anna | Justin |
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一、产品识别/PRODUCT IDENTIFICATION： )

YLRI — 5020 — 501 — 02 A

（1） （2） （3） （4） （5）

（1） Series

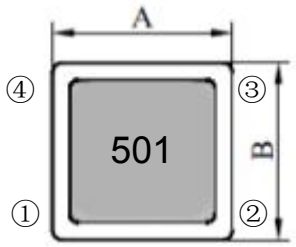
（2） Dimensions

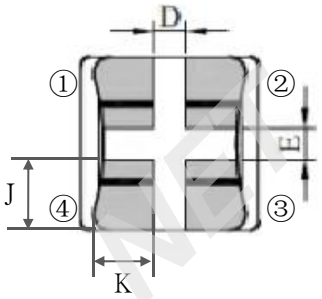
（3） Impedance(500=50Ω 501=500Ω 102=1000Ω )

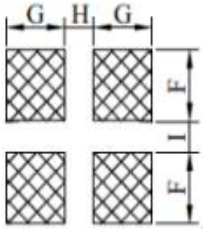
（4） Marking

（5） Packing

二、形状及尺寸/SHAPE AND DIMENSIONS（单位/Unit：mm）





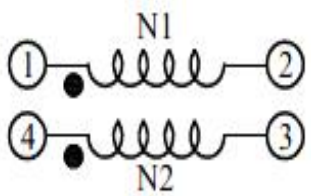

Pad Layout

| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|
| 4.8±0.2 | 5.0 ±0.2 | 2.5 Max | 1.1 Typ | 1.5 Typ | 2.3 Typ | 1.6 Typ | 0.8 Typ | 1.0 Typ | 1.9 Typ | 1.35 Typ |

三、注意事项/NOTE：

1.印字颜色：白色

四、电路图/CIRCUIT DIAGRAM



# 产品承认书/SPECIFICATION FOR APPROVAL

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五.电气特性/ELECTRICAL CHARACTERISTIC

| Part Number | Impedance (Ω) @100MHz TYP | DC Resistance (mΩ) Max | Rated Current (A) Max | Rated Voltage (Vdc) Max | Insulation Resistance 50V/3S (MΩ) Min | Marking | Note |
|---|---|---|---|---|---|---|---|
| YLRI-5020-101-02A | 100 | 13 | 5.5 | 50 | 10 | 101 | |
| YLRI-5020-251-02A | 250 | 20 | 4.5 | 50 | 10 | 251 | |
| YLRI-5020-351-02A | 350 | 20 | 3.5 | 50 | 10 | 351 | |
| YLRI-5020-501-02A | 500 | 27 | 3.5 | 50 | 10 | 501 | |
| YLRI-5020-901-02A | 900 | 34 | 1.6 | 50 | 10 | 901 | |
| YLRI-5020-102-02A | 1000 | 34 | 1.6 | 50 | 10 | 102 | |
| YLRI-5020-142-02A | 1400 | 56 | 1.2 | 50 | 10 | 142 | |
| YLRI-5020-152-02A | 1500 | 56 | 1.2 | 50 | 10 | 152 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Note:

(1).Rated Current: Temp.rise 40˚C Typ

(2).Operating Temperature: -40˚C up to +105℃

(3).Storage Temperature: 15˚C up to 25˚C, 65% RH max.

(4).The temperature of electrical characteristic test is 25˚C indoor temperature

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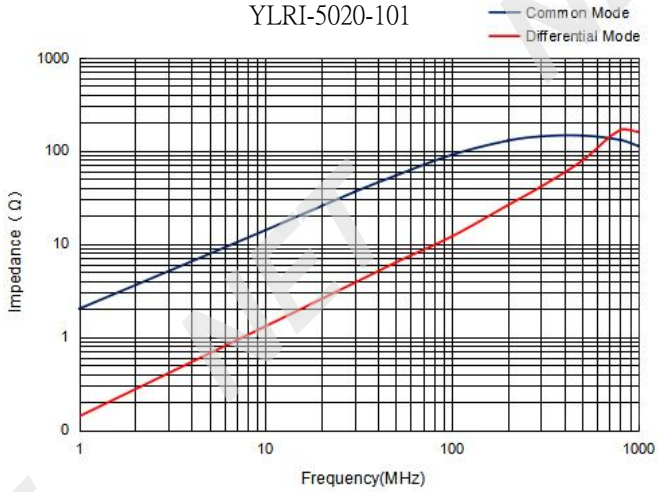
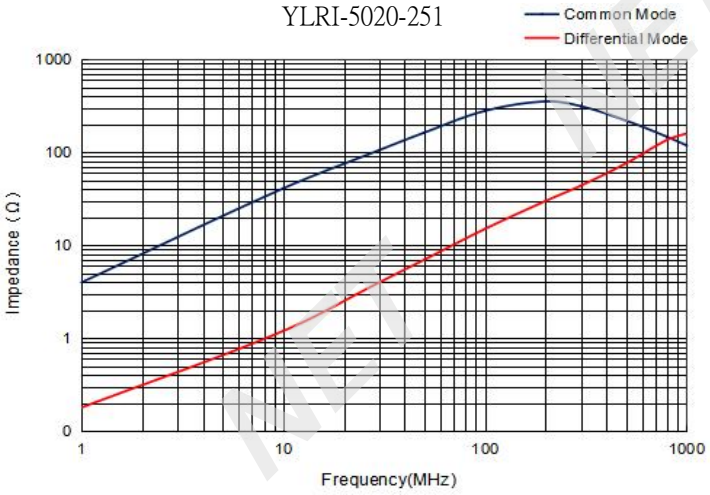
六.特征曲线/CHARACTERISTICS(REFERENCE)

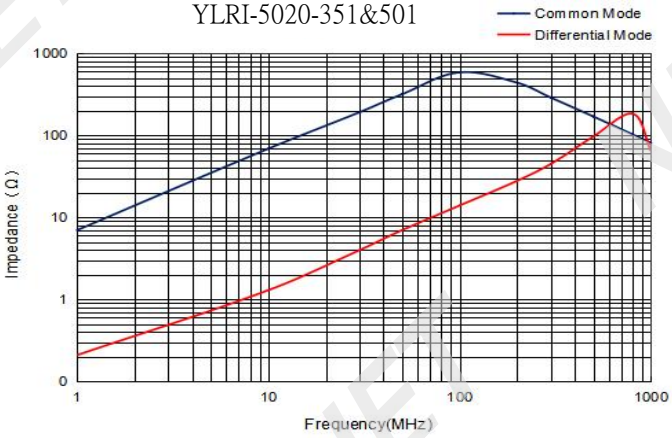
YLRI-5020-101



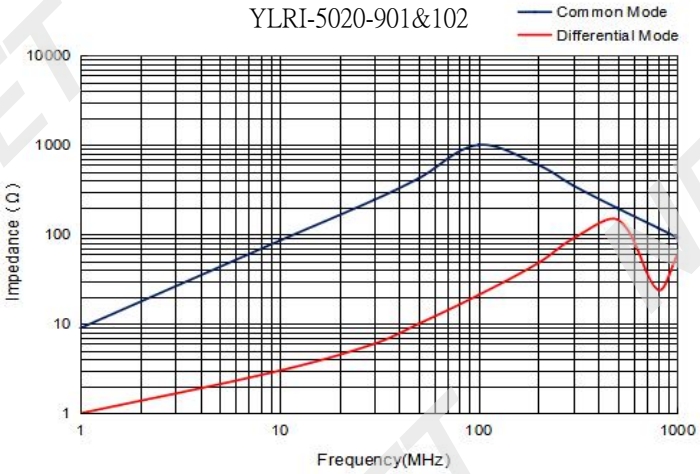

YLRI-5020-251



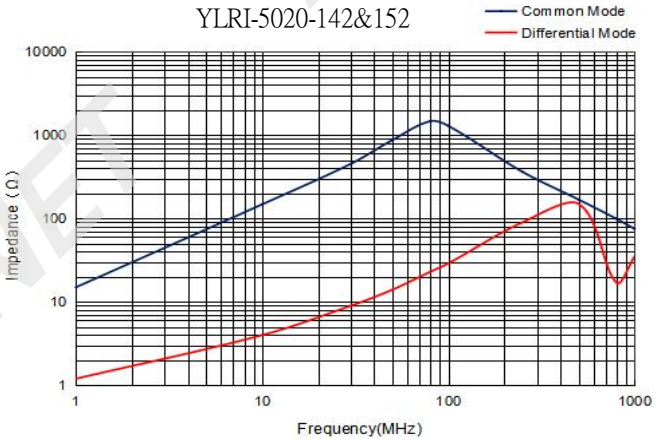

YLRI-5020-351&501




YLRI-5020-901&102




YLRI-5020-142&152



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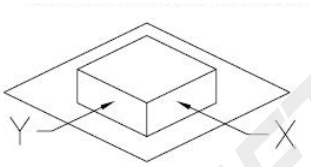
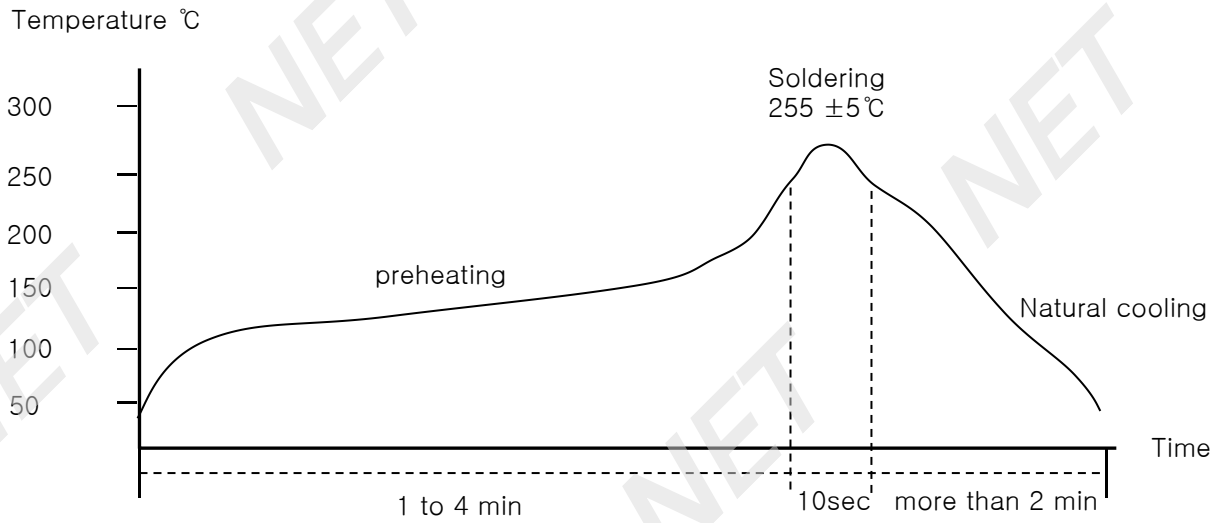
七.可靠性测试/RELIABILITY TESTING )

| | |
|---|---|
| Operating Temperature | - 40 to +105 ℃ ( Contain Heating coil ) |
| Appearance Inspection | No external defects by visual inspection |
| Terminal Strength   | After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. ( Refer to figure at right ) |
| Heat endurance of reflow soldering | Refer to figure |
| Insulating resistance | Over 10 MΩ at 50V D.C . between wire and core |
| Dielectric Strength | Apply at 0.5KV 1mA for 3S between wire and core |
| Temperature characteristics | Inductance coefficient ( 0~2,000 ) × 10 / ℃( - 40~ + 105 ℃ ) |
| Humidity characteristics | Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 ℃ and 1 hours drying under normal condition |

A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile




Temperature and humidity . After that , no mechanical and electrical defect should be found .

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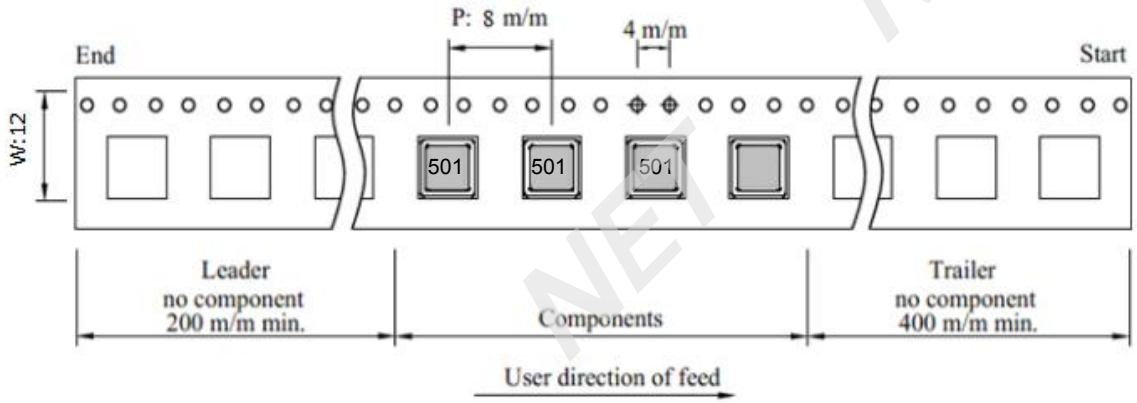
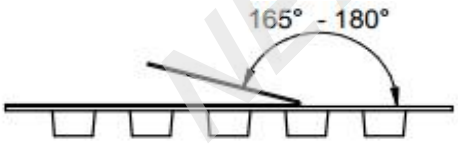
八.材料清单/MATERIAL LIST )

| NO. | ITEM | DESCRIPTION |
|---|---|---|
| 1 | CORE | FERRITE |
| 2 | WIRE | UEW-H |
| 3 | ADHESIVE | EPOXY RESIN |
| 4 | SOLDER | LEAD-FREE |
| 5 | INK | WHITE |

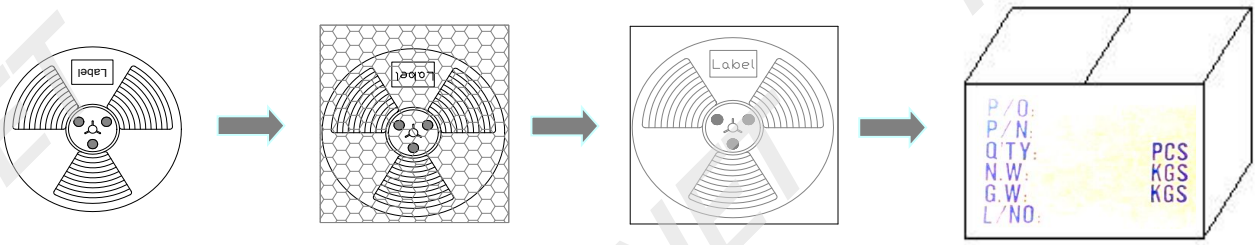
九.包装规格/PACKING SPECFICATIONS




Transparent carrier and cover tape/透明载带和自粘上带，预留前40CM后20CM.




| Tape width | Distance | Pull-of force |
|---|---|---|
| 12 mm | 8 mm | 10~120g |




轮盘：13'(直径330mm)
数量：2500PCS/盘

PE袋
数量：2500PCS/袋

内盒
数量：10000PCS/盒

外箱，数量：50000PCS/箱
不足整箱用内盒或填充物装满

| | | | | | |
|---|---|---|---|---|---|
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# Cautions and Warnings
# 提醒及警告

1.When the NET's products are used in occasions other than general electronic equipment, such as vehicle mounted, medical equipment, military, aerospace, etc., please be sure to contact the company's business department. In case of machine failure caused by exceeding the recommended use range of the company's products, the company will not bear relevant responsibilities
(新川此系列產品推荐使用范围：影音,家電,辦公自動化,通訊,電源模塊,LED照明,測量設備,機械工具等一般電子設備中.)

2. when the company's products are used outside the general electronic equipment, such as vehicle mounted, medical, military, aviation, aerospace and other environments, please contact the company's business department and put forward a request. Otherwise, the company will not bear any relevant responsibility for the machine failure caused by the use beyond the scope recommended by the company
(當本公司產品使用在一般電子設備以外,如:車載,醫療,軍用,航空,航天等环境时,請必须聯繫本公司營業部門并提出述求，否则超出本公司推薦的使用范围而引起的機器故障,本公司不承擔任何相關責任.)

3.Please pay attention to the storage conditions that temperature: below 15-25℃ and humidity: 65% RH Max. If product is preserved for more than 6 months, the solderability of their ter-minals may be deteriorated.
(產品在規定的溫度和濕度條件下保存:溫度: 15-25℃以下, 濕度上限: 65% RH , 如果保存期超過半年, 端子的可焊性可能會變差.)