



# 产品承认书

## SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRSQ3835-800uH-V-1622

我司品名:

OUR PART NAME

SQ flat wire inductor

送样日期:

DATE SAMPLES

数量:

QUANTITY

### 制造确认 MANUFACTURER APPROVE

| 拟制 DRAWN    | 审核 CHECKED | 确认 APPROVED  |
|-------------|------------|--------------|
| Hu Fangting | RaoPing    | Zhong Cuilan |

### 客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

SQ3835 Vertical 800uH 3.5\*2.0 Wire 16\*22.2 Pin Pitch

规格型号 DESCRIPTION:

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 acknowledgment, please raise it or send the mark to us. The acknowledgment will become effective one week after the acknowledgment is provided in the absence of any objection.

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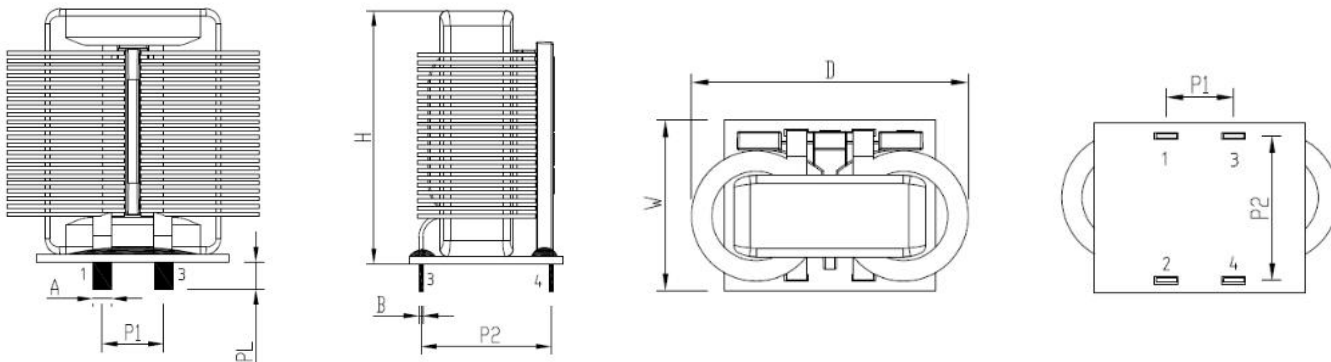
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SPECIFICATION FOR APPROVAL

|                        |                       |                       |                                                      |
|------------------------|-----------------------|-----------------------|------------------------------------------------------|
| 客户名称<br>CUSTOMER       |                       | 日期<br>DATE            | 2025/10/27                                           |
| 客户物料编号<br>CUSTOMER P/N |                       | 客户规格型号<br>DESCRIPTION | SQ3835 Vertical 800uH 3.5*2.0 Wire 16*22.2 Pin Pitch |
| 我司物料编号<br>OUR PART NO  | XRSQ3835-800uH-V-1622 | 我司品名<br>OUR PART NAME | SQ flat wire inductor                                |

Installation Dimensions and Outline Drawing:

一：安装尺寸及外形图：

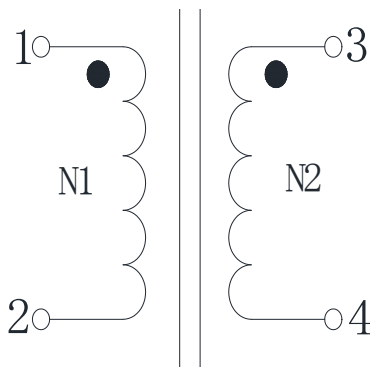


Inductor Dimensions (mm)

| H       | D       | W       | P1       | P2       | A       | B       | PL      |  |
|---------|---------|---------|----------|----------|---------|---------|---------|--|
| 40.0MAX | 48.0MAX | 30.0MAX | 16.0±0.5 | 22.2±0.5 | 3.5±0.5 | 2.0±0.5 | 4.0±1.0 |  |

Schematic Diagram

二：原理图



Winding Structure Diagram:

三：绕线结构图：

| 绕组<br>Winding | 进出线脚位<br>Input/output pin positions | 线径*股数<br>Wire Diameter*Number of Strands | 圈数<br>Number of laps |
|---------------|-------------------------------------|------------------------------------------|----------------------|
| N1            | 1--2                                | 2.0mm*3.5mm*1P                           | 8TS (±1TS)           |
| N2            | 3--4                                | 2.0mm*3.5mm*1P                           | 8TS (±1TS)           |
|               |                                     |                                          |                      |



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### 四：电气特性（Electrical Characteristics）：

| NO. | Project | Test point  | Specifications | 测试条件（Test Conditions）         |
|-----|---------|-------------|----------------|-------------------------------|
| 1   | 额定电压    | 1-3/2-4     | 264VAC         | 50HZ/60HZ                     |
| 2   | 额定电流    | 1-2/3-4     | 60A @ 55℃      | 无风冷环境温度下测试；备注①                |
| 3   | 电感量L    | L(1-2/3-4)  | 0.8mH±30%      | 1KHZ 0.3V@25℃ 备注② 测试仪器内阻：100Ω |
| 4   | 电感偏差    | L1-L2       | 100uH MAX      |                               |
| 5   | 直流电阻DCR | L(1-2/3-4)  | 2.0mΩ MAX      | @25℃                          |
| 6   | 绝缘耐压    | N1-N2       | 漏电流≤1mA        | 1000VAC@3S;<br>70% RH max;    |
| 7   |         | N1, N2-CORE | 漏电流≤1mA        |                               |
| 8   | 环境温度    | /           | -40℃~60℃       | /                             |
| 9   | 工作温度    | /           | -40℃~120℃      | 备注①                           |
| 10  | 存储温度    | /           | 0℃~35℃         | 70% RH max                    |

备注①：在恒温恒湿箱中测试，箱内环境温度55℃，相对湿度70%，无风冷状态下，给电感两个绕组同时灌入相应的电流（带纯阻性负载），当电感温度热平衡后，测量线圈，磁芯，骨架三者的最高温度点，最高温度不超过120℃时的电流为我们定义的额定电流；纯阻性负载跟客户终端产品测试存在差异，此电流仅作参考用途，最终以客户实际应用情况为准。

Testing conducted in a constant temperature and humidity chamber at 55℃ ambient temperature and 70% relative humidity, without forced air cooling. Apply corresponding currents to both windings of the inductor simultaneously (with purely resistive load). After the inductor reaches thermal equilibrium, measure the maximum temperature points of the coil, core, and frame. The current at which the maximum temperature does not exceed 120℃ is defined as the rated current. Note: The purely resistive load differs from the customer's end-product testing conditions. This current value is for guidance only; the final determination should be based on the customer's actual application.

备注②：电感量随温度，湿度变化，当环境温度低于25℃或者高于25℃时，静态电感量随之变化；当相对湿度大于或小于70%时，电感量也会随之变化。来料验证请以环境温度25℃，相对湿度70%时测试值为准（产品需在此环境下至少提前8小时静置）

Inductance varies with temperature and humidity. When the ambient temperature falls below 25℃ or rises above 25℃, the static inductance changes accordingly. When the relative humidity exceeds or falls below 70%, the inductance also changes. For incoming material verification, test values measured at an ambient temperature of 25℃ and relative humidity of 70% shall prevail (products must be conditioned in this environment for at least 8 hours prior to testing).

### 五：工艺要求（Technical requirements）：

1:绕线要求平整美观，漆包膜不可破损或脱落；

Winding must be smooth and aesthetically pleasing; enameled film must not be damaged or peeled off;

2:圈数以内圈计算；

Turn count is calculated based on inner coils;

3:产品需涂凡立水自然干；

Products must be coated with varnish and air-dried;

4:产品符合ROHS 2.0环保要求；

Products comply with ROHS 2.0 environmental requirements;



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六：材料清单（Bill of Materials）：

| NO. | 项目<br>Project          | 规格详述<br>Specification<br>Details           | 供应商Supplier                                                                                                     | UL NO.                        |
|-----|------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1   | 磁芯<br>Magnetic core    | SQ3835                                     | Shandong Hengrui Magnetic & Electric / Dongguan Jiuxing Magnetic Materials or equivalent material manufacturers | /                             |
| 2   | 扁铜线Flat<br>copper wire | 0.2*3.5mm<br>耐温220℃                        | Tailison New Materials / Lizwei Electric / Jiaten Electric or manufacturers of equivalent materials             | E318511<br>E499370<br>E504985 |
| 3   | 环氧板<br>Epoxy board     | FR-4                                       | Hongcheng Composite Materials / Anhui Yisola Composite Materials or equivalent material manufacturers           | E344098<br>E510612            |
| 4   | 凡立水<br>Fanlishui       | E962                                       | Zhuhai Changxian New Materials Technology or manufacturers of equivalent materials                              | E335405                       |
| 5   | 骨架<br>Skeleton         | Phenolic (T375HF)UL<br>94 V-0 Class 耐温150℃ | Changchun Synthetic Resin Factory Co., Ltd. or manufacturers of equivalent materials                            | E59481                        |
| 6   | AB胶<br>AB adhesive     | H CJ800A/B                                 | Dongguan Hongchuang Electronic Materials Co., Ltd. or manufacturers of equivalent materials                     | E504240                       |
| 7   | 焊锡<br>Solder           | Sn99% Pb-free<br>Bar Solder                | Huizhou Yuexin Electronic Materials Co., Ltd. or manufacturers of equivalent materials                          | /                             |
| 8   |                        |                                            |                                                                                                                 |                               |

七：其他注意事项

- 1.本产品适用于信息技术，家电，照明，开关电源，工业控制板，电动工具，测量仪器等一般电子设备中；当本产品使用在一般电子设备以外的场合，如：车载，医疗，军用，航空航天等场合时，终端客户应当充分考虑应用场景的可靠性问题，比如额外施加固定措施，产品性能降额使用，额外喷涂三防漆等措施。
- 2.超音速公司不熟悉客户的特定应用场景，也不熟悉客户本身需求，由于这些原因，客户始终有责任检查并确定本规格书中所描述的电气特性是否适合客户产品的特定使用环境。客户必须先做小批量试产验证后才可用于大批量生产。
- 3.在客户严格遵守此产品特性合理使用的情况下，本产品保质期为一年。
- 4.在本规格书规定的存储条件下，超过一年时间未使用的话，引脚的可焊性可能会变差，请避免超期存放。
- 5.请小心轻拿轻放，避免由于产品的跌落或取出不当而导致的损坏。