



产品承认书

SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRSQ2522-100uH-V-816

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:

SQ2522 Vertical 100uH 2.0 Round Wire 8.5*16.8

规格型号 DESCRIPTION:

Pin Pitch

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.

东莞市祥如电子有限公司

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修订记录 Revision record

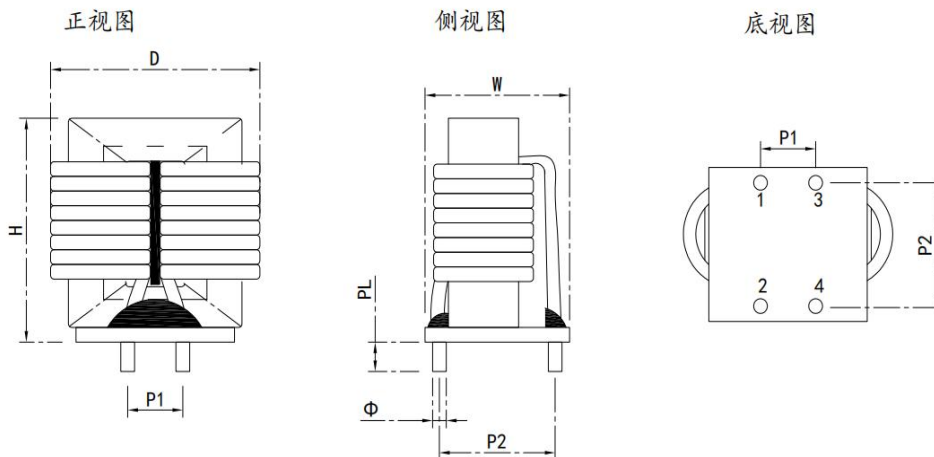
[illegible]

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客户名称 CUSTOMER		日期 DATE	2025/10/27
客户物料编号 CUSTOMER P/N		客户规格型号 DESCRIPTION	SQ2522 Vertical 100uH 2.0 Round Wire 8.5*16.8 Pin Pitch
我司物料编号 OUR PART NO	XRSQ2522-100uH-V-816	我司品名 OUR PART NAME	SQ flat wire inductor

Installation Dimensions and Outline Drawing:

一：安装尺寸及外形图:

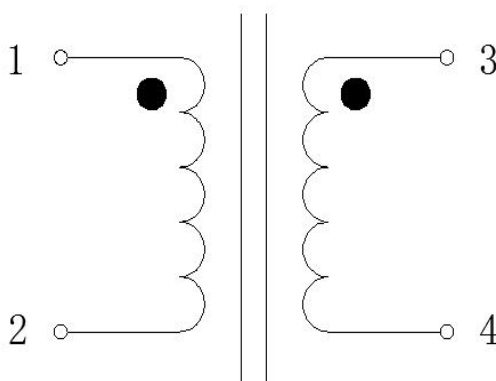


Inductor Dimensions (mm)

H	D	W	P1	P2	ϕ	PL		
24.0MAX	34.0MAX	22.0MAX	8.5 $\pm$ 0.5	16.8 $\pm$ 0.5	2.0 $\pm$ 0.2	3.5 $\pm$ 0.5		

Schematic Diagram:

二：原理图:



Winding Structure Diagram:

三：绕线结构图:

绕组 Winding	进出线脚位 Input/output pin positions	线径*股数 Wire Diameter*Number of Strands	圈数 Number of laps
N1	1--2	2.0mm	4TS REF
N2	3--4	2.0mm	4TS REF



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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	N1, N2	264VAC	50HZ/60HZ
2	额定电流	N1, N2	50.0A @ 25℃	无风冷环境温度下测试；备注①
3	电感量L	L(1-2/3-4)	100uH Min	1KHZ 0.3V@25℃ 备注② 测试仪器内阻：100Ω
4	电感偏差	L1-L2	50uH MAX	
5	直流电阻DCR	L(1-2/3-4)	1.5mΩ MAX	@20℃
6	绝缘耐压	N1-N2	漏电流≤1mA	1000VAC@3S；
7		N1, N2-CORE	漏电流≤1mA	
8				

备注①：在恒温恒湿箱中测试，箱内环境温度25℃，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交流电（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110℃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 with an internal environment of 25℃ and 70% relative humidity, under no-air-cooling conditions. Apply corresponding alternating current to both windings of the inductor simultaneously (with a purely resistive load). After the inductor reaches thermal equilibrium, measure the maximum temperature points of the coil, magnetic core, and frame. The current at which the maximum temperature does not exceed 110℃ 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：使用温度范围（含温升）：-40℃ TO +110℃；

Operating temperature range (including temperature rise): -40° C to +110° C;



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六：材料清单（Bill of Materials）：

NO.	项目 Project	规格详述 Specification Details	供应商Supplier	UL NO.
1	磁芯 Magnetic core	SQ25	Shandong Hengrui Magnetic & Electric / Dongguan Jiuxing Magnetic Materials or equivalent material manufacturers	/
2	漆包铜圆线 Enameled copper round wire	AIW 2.0mm	Tailison New Materials / Lizwei Electric / Jiaten Electric or manufacturers of equivalent materials	E318511 E499370 E504985
3	环氧板 Epoxy board	FR-4	Hongcheng Composite Materials / Anhui Yisola Composite Materials or equivalent material manufacturers	E344098 E510612
4	凡立水 Fanlishui	E962	Zhuhai Changxian New Materials Technology or manufacturers of equivalent materials	E335405
5	骨架 Skeleton	Phenolic (T375HF)UL 94 V-0 Class 耐温150℃	Changchun Synthetic Resin Factory Co., Ltd. or manufacturers of equivalent materials	E59481
6	AB胶 AB adhesive	H CJ800A/B	Dongguan Hongchuang Electronic Materials Co., Ltd. or manufacturers of equivalent materials	E504240
7	焊锡 Solder	Sn99% Pb-free Bar Solder	Huizhou Yuexin Electronic Materials Co., Ltd. or manufacturers of equivalent materials	/
8				

七：工艺要求（Process 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; the enameled film must not be damaged or peeled off.

2:圈数以内圈计算；

Counting within the inner circle

3:产品需涂凡立水烘干；

The product requires application of varnish and drying.

4:产品符合ROHS 2.0环保要求；

The product complies with ROHS 2.0 environmental requirements.