



产品承认书 SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRTC507-S251020

我司品名:

OUR PART NAME

Boost 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
HuangHexiang	RaoPing	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:

TC507 2.0uH: 1.8mH

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

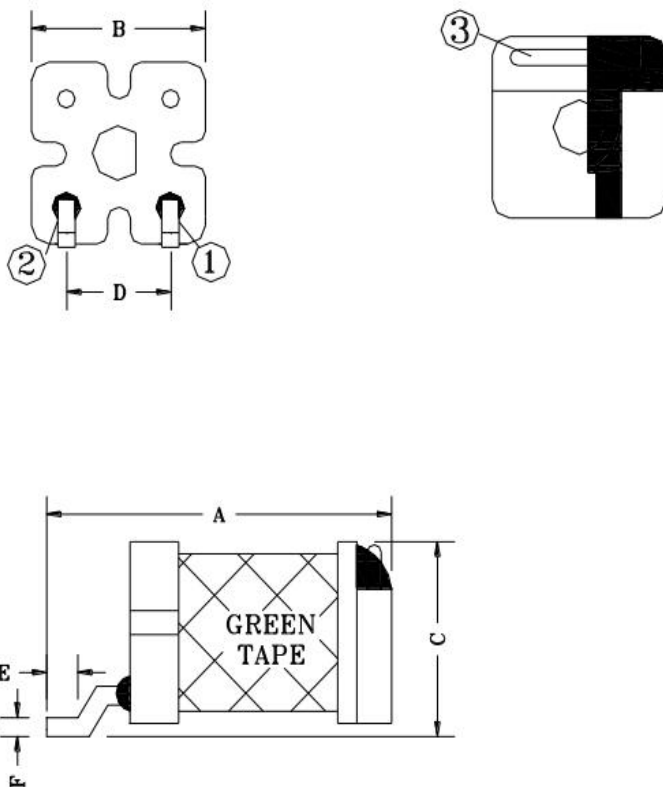
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产品承认书 SPECIFICATION FOR APPROVAL

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	TC507 2.0uH; 1.8mH
我司物料编号 OUR PART NO	XRTC507-S251020	我司品名 OUR PART NAME	Boost inductor

1. 外观尺寸 Appearance of size

单位 Unit: mm



A	12.5 MAX	C	6.1 MAX	E	1.0±0.5	G	
B	5.7MAX	D	3.0±0.5	F	0.4 REF		

备注:

1. PIN3与磁芯处需点黑色环氧树脂固定。(如上图)

PIN3 must be secured with black epoxy resin at the magnetic core location. (As shown in the figure above)

2. PIN1,2需冲压成海鸥脚。(如上图)

PIN1 and PIN2 must be stamped into seagull-shaped pins. (As shown in the figure above)

3. 成品1,2PIN共面度0.15mm MAX.

The coplanarity of finished PIN1 and PIN2 must not exceed 0.15mm.

4. 成品需真空含浸。

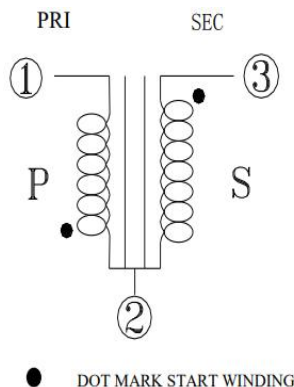
The finished product must undergo vacuum impregnation.

产品承认书

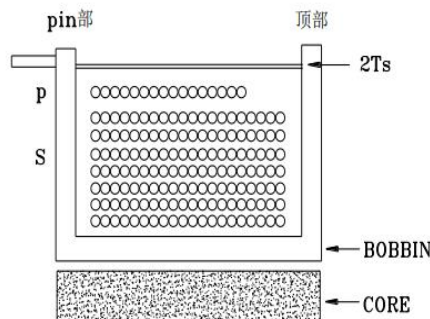
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2. CIRCUIT DIAGRAM/ 电原理图:



3.CONSTRUCTION DIAGRAM/ 内部结构图:



4.WINDING/ 绕制:

绕组 WINDING	起始 START	结束 FINISH	线规 WIRE(mm)	圈数比 WINDING RATIO	胶带圈数 TAPE TURNS(TS)	绕线方式 WINDING CONDITION
S	3	2	Grd3Φ0.06*1P	36.1	/	平整密绕 Flat and tightly wound
P	2	1	Grd3Φ0.06*3P	1.0	2Ts	平整密绕 Flat and tightly wound

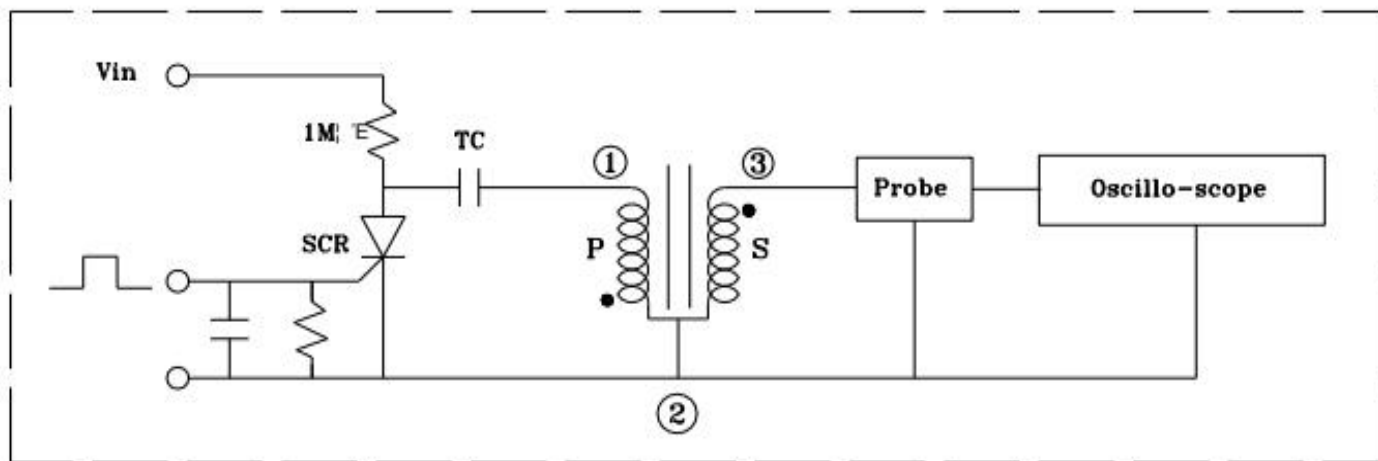
5.CHARACTERISTIC/ 电气性能:

No.序号	项目 ITEM	测量点 MEASURED POINT	测试范围 TECHNICAL DATA	测试条件与仪器 TESTING CONDITION & INSTRUMENT
5.1	电感 INDUCTANCE	3--2 2--1	1.80mH MIN 2.0uH MIN	1KHz/0.25V ZENTECH 3250
5.2	直流电阻DCR	3--2 2--1	40.0Ω±20% 0.55Ω±20%	ZENTECH 502B
5.3	高压输出 HV OUTPUT	INPUT VOLTAGE300VDC	VOLTAGE(P-0) 5.5KV±12%	1. Oscilloscope-Tektronix TDS220 2. Voltage distributor - Tektronix P6015A 3. Output measuring circuit: TCE standard#1 SCR1 4. SCR - CR02AM-8 5. TC- 400V 0.047uF
5.4				

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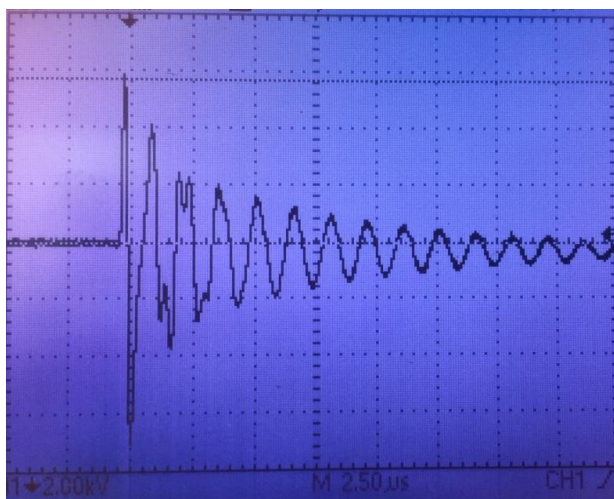
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6. OPERATING DATA:



ITEM	PRIMARY	SECONDARY
Primary Voltage . Uzp	Uzp =300V DC	/
Primary Capacitance , Cz	0.047 uF	/
Secondary Voltage , Uz	/	5.5KV±12%
Polarity of 1st peak	/	1st peak Positive

7. TYPICAL WAVEFORM :



Unloaded high voltage output 2.5us/div 2KV/div

To obtain a negative 1st peak ,simply reverse the polarity of the pins.



注意事项 Matters needing attention

1、本公司产品适用于 AV 设备、OA 设备、家电、信息服务等一般电子设备中。

Our products are designed and promoted for use in general electronic devices such as audio-video equipment, office automation equipment, home appliance and information service.

2、当本公司的产品使用在一般电子设备以外的领域时，对于此所引发的设备失效我司将不承担任何法律责任。

In case of using the product for the purpose other than general electronics devices, we shall not be held liable for any dysfunctions in or damage to the equipment with which the product is used.

3、本承诺书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使用在贵司电路上的产品情况进行了有效评价和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

4、不要对产品施加过大的振动或机械冲击；

Do not apply excessive vibration or mechanical shock to products.

5、为防止断线，请不要使用锋利的物体接触线圈，如镊子；

Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

6、在产品贴装时不要使用过大的压力，避免磁芯断裂。

Do not apply excessive stress to products mounted on boards to prevent core breakage.

7、为保证端子电极的焊接特性和包装材料处于良好状态，请于本公司发货后 6 个月内使用本产品。同时，由于端子电极的焊接特性会随时间发生变化，如果贮存时间超过 6 个月，请首先确认其焊接特性后再安装使用。

To maintain the solderability of terminal electrodes and to keep the packing material in good condition, product should be used within 6 months from the time of delivery. And the solderability of products electrodes may decrease as time passes, so in case of storage over 6 months, solderability shall be checked before actual usage.

8、存放货物的仓库应满足以下条件 Store products in a warehouse in compliance with the following condition:

条件 Conditions	元件含包装物 Packing status	元件自身 Component itself
温度 Temperature	-25~+40℃	-25~+85℃
湿度 Humidity	30~70%RH	30~70%RH

9、不要使产品遭受温度和湿度的快速变化。

Do not subject products to rapid changes in temperature and humidity.

10、不要将产品存放在化学环境中，如硫酸气体或碱性气体中，否则会降低电极端子的焊接特性和使电感器腐蚀。

Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.

11、为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。

Store products on pallets to protect from humidity, dust, etc

12、产品应避免热冲击、振动以及直接光照等等。

Avoid heat shock, vibration, direct sunlight, etc.