



产品承认书

SPECIFICATION FOR APPROVAL

客户名称:

CUSTOMER

我司料号:

OUR PART NO.

XRNR8065-100UH/M

我司品名:

OUR PART NAME

SMD Power 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	Rao Ping	Li Zhenxiong

客户确认 CUSTOMER APPROVE

客户名称 CUSTOMER NAME:

客户料号 CUSTOMER P/N:

规格型号 DESCRIPTION:

XRNR8065 100UH $\pm 20\%$ 1.9A

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	2026/5/20
客户物料编号 CUSTOMER P/N		客户规格型号 DESCRIPTION	XRNR8065 100UH $\pm 20\%$ 1.9A
我司物料编号 OUR PART NO	XRNR8065-100UH/M	我司品名 OUR PART NAME	SMD Power Inductor

Features (特点):

- * RoHS compliant.
符合RoHS标准。
- * Highly accurate dimensions.
高精度尺寸
- * Terminals are highly resistant to external forces.
端子具有极强的抗外力能力。
- * Highly reliable in environments of sudden temperature change and humidity.
在温度和湿度突然变化的环境中，可靠性极高。
- * Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors.
与传统的屏蔽式功率电感器相比，具有优异的电磁干扰（EMI）特性，且辐射极低。

Applications (用途):

- * LCDTV.
液晶显示电视
- * Aprouter.
机顶盒和智能手机
- * STB and smart phone.
机顶盒和智能手机
- * Touch panel. 触摸屏
- * DSC.
- * Game console and other electronic devices.
游戏机及其他电子设备
- * Monitor. 显示器

Operating & Storage Condition :

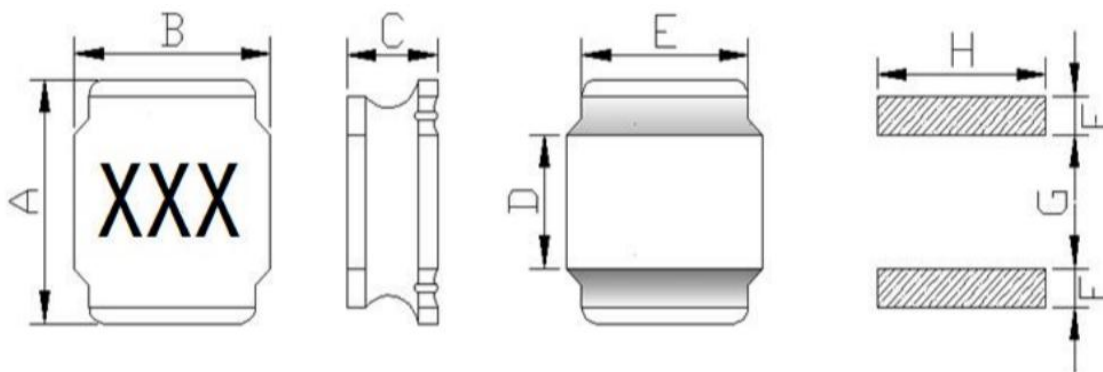
- * Operating Temp Stand Type: -40 to $+105^{\circ}\text{C}$
- * Storage Temp Stand Type: -40 to $+85^{\circ}\text{C}$
- * Storage Life Time : 6 months @ 20°C , RH65%

Standard Atmospheric Conditions :

- * Ambient Temp : $25 \pm 5^{\circ}\text{C}$
- * Relative Humidity : $65 \pm 20\%$

©Dimensions(unit:mm) 尺寸(单位);

Outline Dimensions 外形尺寸 & Recommended pad size 推荐焊盘尺寸;



Series	A	B	C	D	E	F	G	H	
XRNR8065	8.0 ± 0.3	8.0 ± 0.3	6.5MAX	2.5 ± 0.3	7.5 Ref	3.4 Ref	2.5 Ref	7.5 Ref	

注：※由于喷码设备不断更新，印字的大小及字体可能不同批次略有区别。※产品外形分为12边形和8边形，可根据客户要求提供，默认12边形。

Note: ※Due to continuous updates in coding equipment, print size and font may vary slightly between batches. ※Product shapes are available in 12-sided and 8-sided configurations, provided according to customer requirements; 12-sided is the default.



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电性参数

Electrical parameters:

Part Number 型号	LO(uH)@(0A) 100KHz/0.25V	精度 precision ($\pm$)	DCR(m Ω) 直流电阻 Max最大	Heat rating current Irms(A)温升电流 Max最大	Saturation current Isat(A)饱和电流 Max最大
XRNR8065- 100UH/M	100.0	20%	340	1.4	1.90

* Test Condition @100KHz / 1.0Vrms, 25°C Ambient

* Irms DC current (A) that will cause an approximate ΔT of 40°C

* Isat DC current (A) that will cause L to drop approximately 30%

ONotes注意事项:

1.All test data is referenced to 25°C ambient 所有测试数据均参考25°C环境温度

2.Operating temperature range -55°C to +125°C 工作温度范围-55°C至+125°C

3.Irms(A):DC current(A)that will cause an approximate ΔT of 40°C(reference ambient temperature is 25 °C)
Irms(A):将导致大约40°C AT的直流电流(A)(参考环境温度为25°C)

4.Isat(A):DC current(A)that will cause LO to drop approximately 30 % Isat(A):将导致LO下降约30%的直流电流(A)

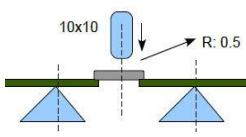
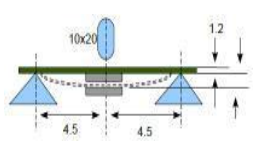
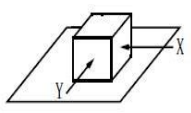
5.The part temperature(ambient +temp rise)should not exceed 125°C under worst case operating conditions.Circuit design,component placement,PWB trace size and thickness,airflow and other cooling provisions all affect the part temperature.Part temperature should be verified in the end application 在最坏的操作条件下,零件温度(环境温度+温升)不应超过125°C。电路设计、部件放置、PWB迹线尺寸和厚度、气流和其他冷却措施都会影响零件温度。应在最终应用中验证零件温度。

6.测试仪器Testing Instruments:

CH2816、502BCOHM METER、CH2816+CH7210+THERMOMETER、CH2816+CH7210、

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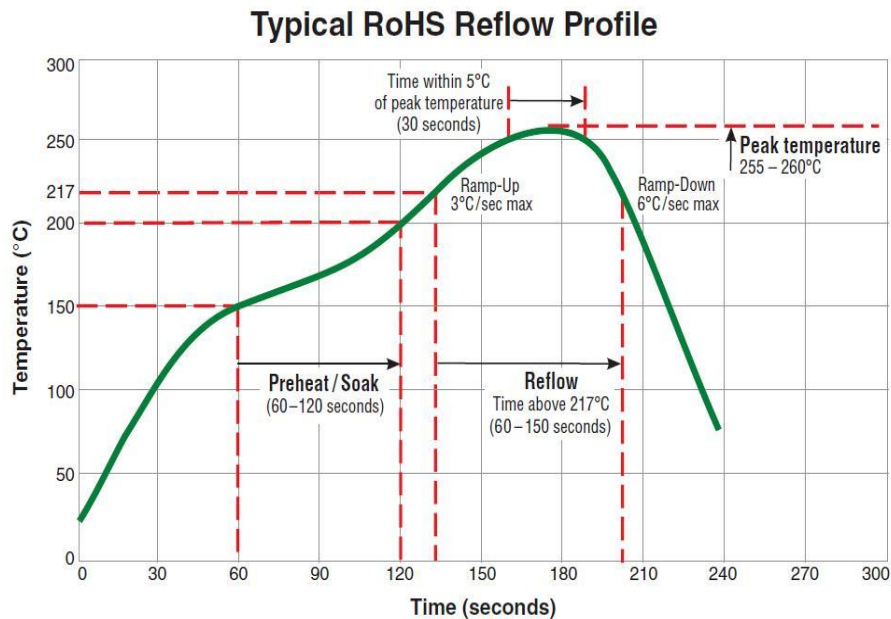
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我司物料编号 OUR PART NO	XRNR8065-100UH/M	我司品名 OUR PART NAME	SMD Power Inductor
Item 项目	Specification and Requirement 项目规范和要求	Test Method 试验方法	Samples (pcs)
Thermal Shock 冷热冲击测试	Temperature: - 40 °C / +85 °C kept stabilized for 30 minutes ; Cycle: 100 cycles (power off)	No appearance deformation Inductance deviation within $\pm 5\%$	30
Humidity Resistance 防潮性能测试	Humidity: 90%- 95% RH; Temperature: 40 ± 2 °C Time: 500 ± 12 hours	No appearance deformation Inductance deviation within $\pm 5\%$	30
High Temperature 耐热测试	Temperature: 105 ± 2 °C Time: 500 ± 12 Hours	No appearance deformation Inductance deviation within $\pm 5\%$	30
Low Temperature 耐寒测试	Temperature: - 40 ± 2 °C Time: 500 ± 12 Hours	No appearance deformation Inductance deviation within $\pm 5\%$	30
Temperature and Humidity Cycle 温/湿度循环测试	Temperature Humidity Time 25 °C ± 2 °C 90% - 95% RH 3.0 hours 55 °C ± 2 °C 95% - 96% RH 5.0 hours 25 °C ± 2 °C 90% - 95% RH 3.0 hours Cycle: 100 cycles	No appearance deformation Inductance deviation within $\pm 5\%$	30
Reflow Heating Resistance 回流焊耐热性测试	IR-Reflow (3 times) Preheat: 150~200°C Time: 60-120 sec. Peak Temp.: 255 ± 5 °C Time: 30 sec. Reflow Temp.: above 217 °C Time: 60-150 sec.	No appearance deformation Inductance deviation within $\pm 5\%$	30
Iron Heating Resistance 烙铁焊耐热性测试	Soldering Temp.: 350 ± 5 °C Time: 3 ± 1 sec.	No appearance deformation Inductance deviation within $\pm 5\%$	30
Withstanding Voltage 耐压测试	100 VDC/ 1 minute, between core & winding	No dielectric breakdown	30
Rated Current 额定电流测试	Temperature: 25 ± 3 °C; Time: 10 minutes Load: Rated Current	Inductance and Temp. Rise variation within spec.	30
Bending Strength 折断力测试	Unit: mm IR-Reflow (2 times) Force : 1 kgf/ min 	No appearance deformation Inductance deviation within $\pm 3\%$	30
Flexure Strength 抗弯强度测试	Unit: mm IR-Reflow (2 times) Solder cream 0.15mm 	No appearance deformation Inductance deviation within $\pm 3\%$	30
Electrode Strength 电极强度测试	Mounted on PCB Pushed in X, Y direction, Strength: 5N for 10 ± 2 sec. 	No electrode detachment No appearance deformation Inductance deviation within $\pm 3\%$	30
Vibration 振动测试	Frequency: 10Hz-55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 hours for each Product: after packing	No appearance deformation Inductance deviation within $\pm 3\%$	30
Dropping 跌落测试	Freely dropped down; Height: 1m ; Direction: 1 Angle ridge; 3 surfaces; Product: after packing	No appearance deformation Inductance deviation within $\pm 3\%$	30
Remark: Before/after reliability test for above each item, must carry out visual inspection and/or measure crucial dimension inspection if needed. If confirmation of defects is required, use visual aids or equipment such as 10X magnifying glass, microscope etc. to check.			

General:

1. Products should not be kept in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
2. Don't use products in a place where dew condenses. Since dew condensation caused by temperature change, please pay special attention when using products in a sealed condition.
3. Always handle products with care.
4. Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering.
5. Always ensure optimum conditions for soldering.
6. Don't bend the terminals or subject them to excessive stress.
7. Please ensure that all terminals and case lugs are completely fixed with solder onto PCB.
8. Avoid placing chip inductors near the edge of the PCB.
9. Our SMD coils are designed for automatic mounting. Please be careful if soldering by hand.
10. Don't touch any exposed winding part and avoid coming into contact with the guide of electrode in automatic mounting.
11. Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.
12. When using our high voltage inverter transformers, please keep 2mm away from the electric conductor.

Soldering:**Reflow soldering:**

Please refer to the following recommended condition. Please do not add any stress to a product until it returns in normal temperature after reflow soldering.

**Lead free soldering:**

When using products with lead free soldering, we request to use them after confirming of adhesion, temperature of resistance to soldering heat, soldering etc. sufficiently.

Soldering iron:

Put the soldering iron on the land-pattern.

Soldering iron's temperature - Below 350°C (FCD43 Type).

Duration - 3 seconds or less

The soldering iron should not directly touch the inductor.