

SPECIFICATION FOR APPROVAL		客户承认书
客户编码 Customer ID: 152762	KRECO PN: KRE-TX15-Qi1.3	
Date: 2024-07-25	Design No. 设计流水号: 240705-152762-171075-2	



景荣企业有限公司
中山市景荣电子有限公司

KINGRONG ENTERPRISE LTD. (Since 2008)

ZHONGSHAN KINGRONG ELECTRONICS CO., LTD.

客户承认书

SPECIFICATION FOR APPROVAL

DESCRIPTION/概述: 1 Coil Quick Wireless Charger Module

COIL No. & WATTS/线圈数及功率: 1 Coil & 15W

CUSTOMER P.N. /客户料号:

PART NO. /产品编号: JR601 (KRE-TX15-Qi1.3) RoHS: Yes

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核		
Special Notes 特殊要求	1.	Signature & seal:
	2.	
	3.	
	4.	
		Date:

Sign it means acknowledge our sample(s) performance and we production to samples.
In the event of discrepancies between the sample(s) and specification, the sample(s)
shall prevail. /客户确认签字, 盖章即视为确认样品性能, 以样品为准生产.

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	黄秀红	吴静雯	王苑

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TABLE OF CONTENTS/目录

0. Revision List /变更履历表..... 3

1. Product overview /产品概括 4

 1.1 Product name 产品名称..... 4

 1.2 Scope of application /适用范围 4

2. Product related pictures/产品相关图片 4

3. Technical specifications/技术规格 4

4. Package Information /包装示意图..... 9

5. Operation Caution 操作注意事项..... 10

6. Statement 声明 10

7. Customer Confirmation 客户确认 10

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0. Revision List /变更履历表

Rev. 版本	Date 日期	Description of Changes 变更内容描述	Notes 备注
1.0	7-25	Revised to single 12Vdc input	
2.0			
3.0			

变更后立即通知生产更新资料，切记！

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1. Product overview /产品概括

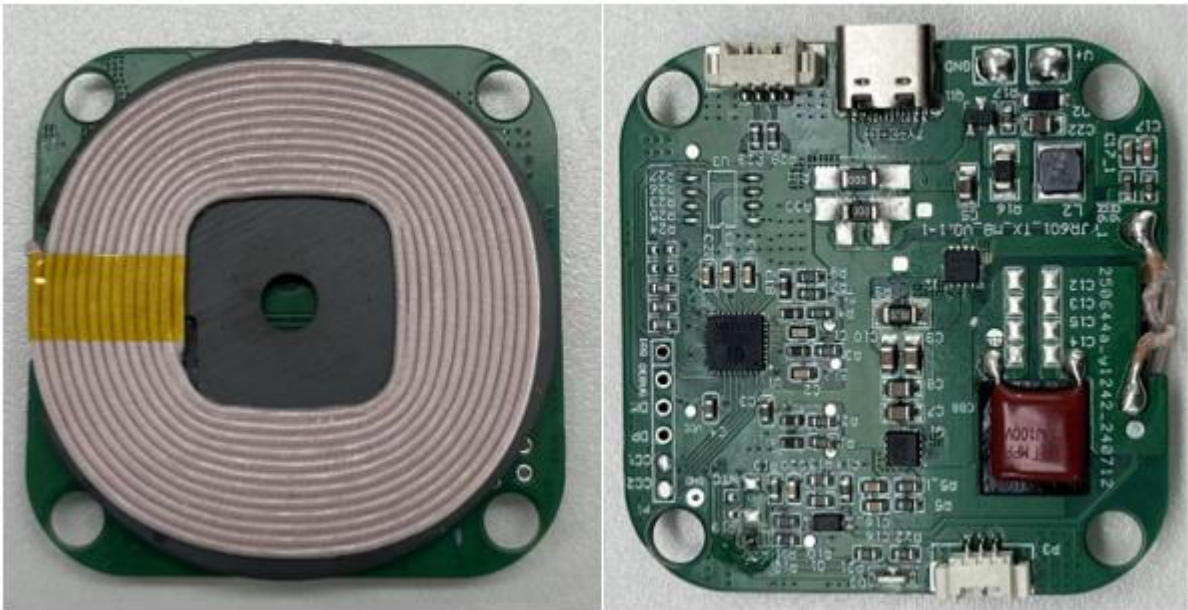
1.1 Product name 产品名称

Mobile Wireless Power Supply Charger Module KRE-TX15-Qi1.3 (JR601) 15W 手机无线供电模组

1.2 Scope of application /适用范围

Wireless charging of mobile phones based on Qi protocol standard /Qi 协议标准的手机无线充电

2. Product related pictures/产品相关图片



3. Technical specifications/技术规格

3.1 Input characteristics/输入特性:

3.1.1 INPUT VOLTAGE/Frequency/输入电压

Item	Min	Standard	Max
Input voltage	11.5Vdc	12Vdc	12.5Vdc

Input voltage	Receiving Module Class				
	Qi-5W	Qi-10W	Qi-15W	Apple 7.5W	Samsung 10W
12Vdc	☒	☒	☒	☒	☒
USB: QC2.0 /QC3.0	☒	☒	☒	☒	☒
Note: When USB QC2.0/QC3.0 is input, the maximum output power of USB is > 20W to support wireless charging of 15W.					

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- 3.1.2 Input standard Current/输入电流: 1.5A max.@12Vdc Full load.
- 3.1.3 Surge current/浪涌电流: 1.5A max.@12Vdc Full load & Ambient temperature 25℃
- 3.1.4 loss/损耗: At 11.5VDC or 12.5VDC, Energy Consumption≤0.625W
- 3.2 Output characteristic /输出特性
- 3.2.1 Static output characteristics(Output&Ripple+Noise)/静态输出特性

Output Power	Rated Load/额定负载		Peak Load	Output Range 输出电压范围	R+N/纹波+噪音	Remark
	Min. Load	Max. Load				
15W	0.10A	1.25A	1.50A	12V±5%	≤600mVp-p	
10W	0.10A	1.1A	1.25A	9V±5%	≤600mVp-p	
5W	0.10A	1A	1.15A	5V±5%	≤600mVp-p	

Attention: Ripple and Noise: When measuring, the oscilloscope should use a 20MHz bandwidth limit, and the output terminal should be connected in parallel with a 0.1uF ceramic capacitor And a 47uF electrolytic capacitor./注意: 纹波与噪声:量测时示波器选用 20MHz 带宽限制,输出端要并联一颗 0.1uF 的陶瓷电容和一颗 47uF 的电解电容。

3.2.2 Main specifications /主要规格

Item	Spec
Wireless charging standard	Qi 1.3
Coil type	A11
Input voltage	DC12V (standard)/1.5A
Power type	Customization
Charing efficiency	80% (max)
Output power	5W, 7.5W, 10W, 15W
Effective charging distance	2 - 6mm (coil to coil as per Qi)
OTP	65℃+ -5℃ (low powering) 75℃+ -5℃ (stop charging) (this according to Qi standard IC chips setting)
Cert	Customization to CE, FCC, Qi1.3
Working temp.	-10℃ – 40℃ (easy to OTP if ambient temp is over than 30℃
Protections	OCP, SCP, FOD, OTP, OVP
Over current protection	Standard current: 1.5A Protection current: 1.8A
Airgap between Glass and coil	a fixed insulator 2mm foam between PCB and coil so that 0.8mm Gap between coil and glass is always maintained.

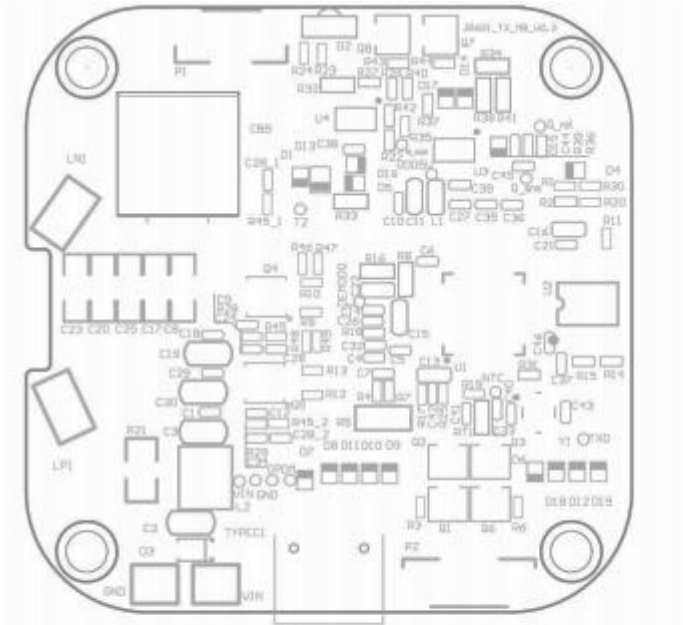
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3.3 Transmitter Pad Indicator Light Working Description /发射板指示灯工作说明:

LED Name	Operation Status					
	Power On	Standby	Charging	Charging Complete	Fault	Charging Over-voltaged
Green	None	None	Green	/	None	None
RED	RED	RED	NONE	/	Blinking	RED

3.3.1. PCBA Port Functional Illustration /PCBA功能说明



主板 PCBA 正面版面图

主板 PCBA Size（尺寸）:直径 50mm*1.0mm(±0.2)mm

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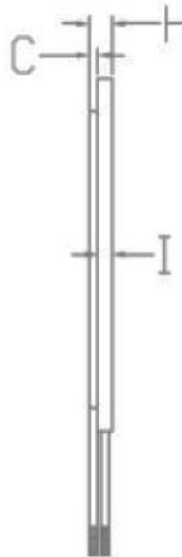
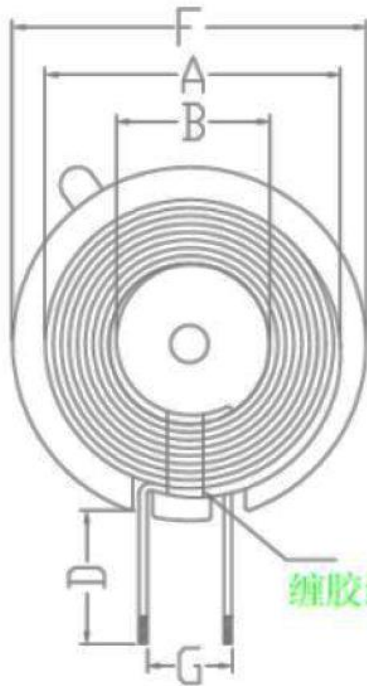
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Design No. 设计流水号: 240705-152762-171075-2

3.3.2 Tx Coil spec /TX线圈规范:

Coil + Shielding : 单层单线圈, 磁片直径 50mmx1mm 厚度

一、尺寸 DIMENSION(mm)



A	43±1.5
B	20.5±0.5
C	1.2±0.2
D	18±2
E	2~4
F	50±1
G	8.0 ref
H	3.2max
I	1.0±0.2

注:

- 交叉出线;
- 线圈贴圆形硬磁片, 磁片尺寸 50±1mm, 厚度为 1.0±0.2mm;
- 线圈贴 6mm 宽高温胶纸;
- 磁片背面左上角贴手撕位双面胶;



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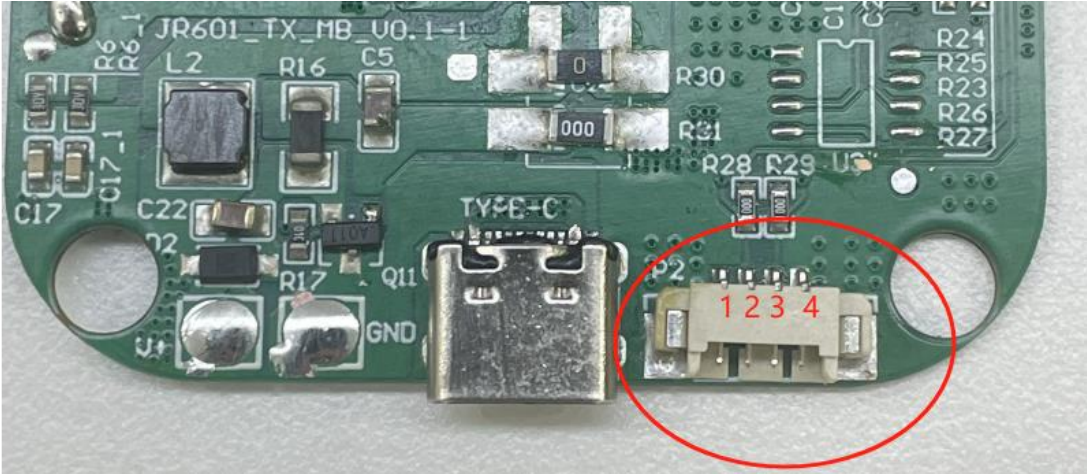
王苑

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3.3.3. 4P port pinout debug definition /4p接口软件反馈定义

Product Image

4P Port Pinout



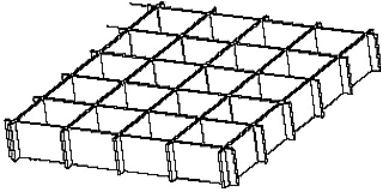
3.3.4. 4P Port Pin Arrangement, Facing the PCBA, Starting from the Left with PIN 1 to 4:

Pin Number	Software Pin Definition
1PIN	No connection (NC)
2PIN	Data pin
3PIN	Data pin
4PIN	Ground (GND)

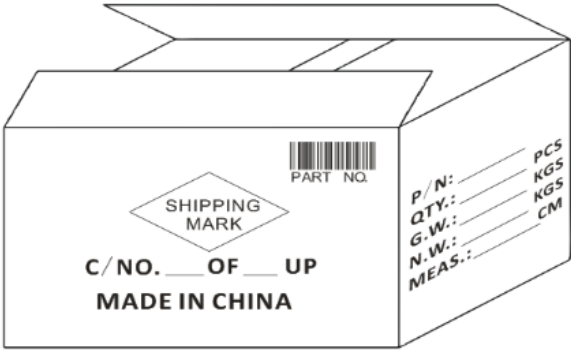
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4. Package Information /包装示意图



☒: (1) PE/Bubble Bag + ☒: (2) Blade Cardboard **or** ☐: (3) Individual box



☒: (4) Outer Carton

No.	Item 名称	Spec规格	Size (cm)尺寸			Qty	G.W	CBM
			L	W	H	数量	公斤Kgs	(m3)
			长cm	宽cm	高cm	个/箱	毛重/箱	立方米
*	Unit Net Weight 产品净重						0.020	
1	PE Bag 透明袋	PE	17.5	14.5		1		
2	Blade Cardboard 刀卡	A=B						
3	Individual Box 白盒	380g/cm3				1	0.015	
4	Outer Carton 外箱	K=K	50	40	28	200	8.0	0.056
5	Pallet 托盘	Plastic	100	110	16		8	0.176
*	Marking 唛头		KRECO					
*	Part No 条形码	Code 128	As per KRECO P/N Number					
*	Serial No 序列号	Code 128	YYxxxxxx0000001					

The above packing info just for your reference only, the final is **subject to actual production**.
If you need to specify, please ask the salesman in particular.

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5. Operation Caution 操作注意事项

5.1 禁止在室外使用

Prohibited in the outdoor use

5.2 严禁在电源线的损坏的情况下使用产品，否则会导致触电，起火和产品损坏。

It is prohibited to use the product in case of power line damage, otherwise it will result in electric shock, fire damage and product.

5.3 避免在高温和强辐射场使用，置于-10~+40℃的通风处保管。

Avoid the use of high temperature and strong radiation place, keep ventilation in - 10 °C ~ + 40 °C.

6. Statement 声明

6.1 本承认书解释权归中山市景荣电子有限公司。

KRECO reserves the right to interpret this acknowledgement.

6.2 本承认书一式两份，客户一份，供应商一份，自双方确认签字之日起生效。

Two sets of specification for mutual approval. It comes into effect after the content is acknowledge.

6.3 如有更新，需由双方协商解决，另行补充。

Any revision change shall be mutually agreed by customer and provider.

7. Customer Confirmation 客户确认

Thank you for your recognition of KRECO product. Your time and every data tested have great significance and contribution. The name you signed will become a permanent witness of KRECO's future development. We KRECO people thank you!

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客 户 确 认

CUSTOMER CONFIRMATION

Modification is to update a new with new design number 修改生成新版设计号

CUSTOMER AUTHORIZED SIGNATURE/客户承认签核	
Special Notes 特殊要求:	APPROVAL BY: (Signature & seal & Date)
1) 2) 3)	

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intelligent power solutions



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