

Shanghai Junchi Electronics Co., Ltd	Issuing Department: R&D Department	Creation Date:	2025. 7. 10
		Creator:	Wu
	Product specification	LH-SMS-000-001	
Product manual: KT-15W-24V-V1.0 wireless charging module		Version:	1
		Page 1 of 10	

SPECIFICATION FOR APPROVAL

(CUSTOMER) : _____

(PART NO) : _____

(MODEL NO) : KT-15W-24V-V1.0

(Sample NO) : _____

(Product Spec) : 15W wireless charging module

Please return to us one copy of “SPECIFICATION FOR APPROVAL”
with your approved signatures

APPROVED SIGNATURES					
(CUSTOMER APPROVAL)			(MLD APPROVAL)		
ENGINEET	CHECKED BY	APPROVAL BY	ENGINEET	CHECKED BY	APPROVAL BY
			Wu		
(CHOP&SIGNATURES)			(CHOP&SIGNATURES)		
(DATE)			(DATE)		

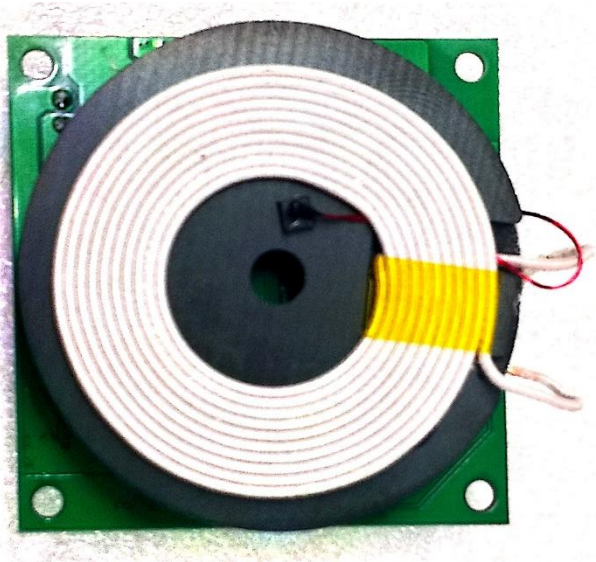
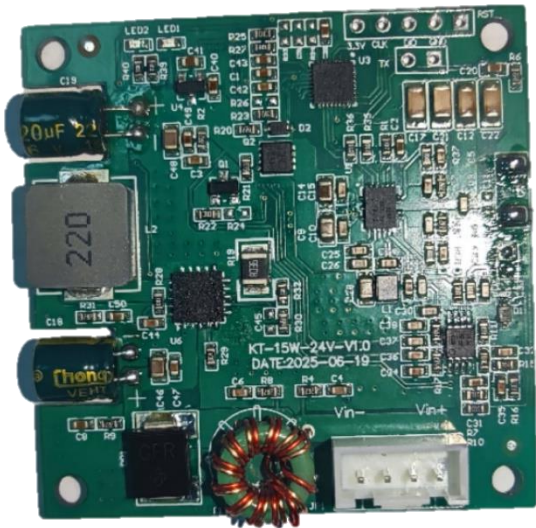
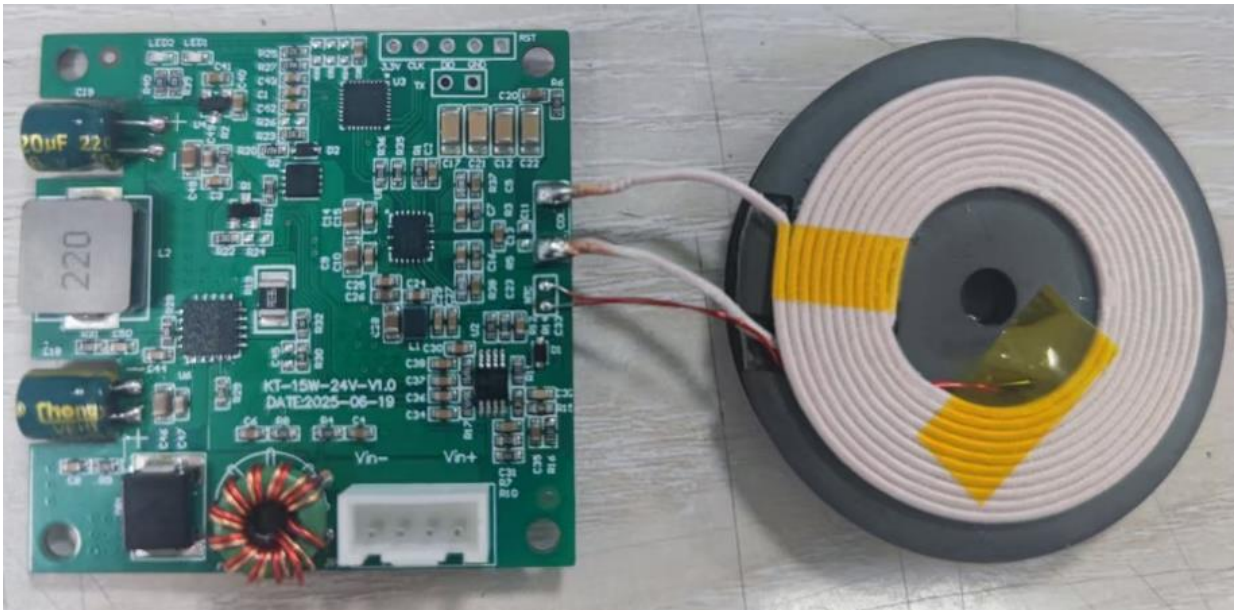
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Spec. Edition	Release Date	Modified content	Product Edition
A/0	2025-7-1	Initial	V0
A/1	2025-7-2	Adjust the orientation of the input socket from inside to outside, while keeping the positive and negative terminals of the corresponding connector unchanged.	V1
A/2	2025-7-10	Add full battery test data and curve	V1
A/3	2025-11-12	Add board frame diagram	V1

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一、 Direct View of Product Appearance

KT-15W-24V-V1.0



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二、Product parameters

Project	specifications
Input voltage	DC 14V-36V
Maximum output power	15. 5W
Input interface	HX25035-4A
Static power consumption	<0. 3W
Charging height	3-8mm (transmitting coil - receiving coil)
protection function	OCP、OVP、UVP、OTP、FOD
Charging efficiency	≥75%@24V 3mm INPUT
Charging area	10mm*10mm
Surface temperature	≤65℃ (tested on mobile phones in an environment of 25 ℃)
Protect temperature	90 degree protection, restored to 70 degrees
Working temperature	-20℃-50℃
Storage temperature/humidity	-30℃-85℃/10%-60%
EMI	EN55022
Working frequency	115K-205K (adjust load and distance)

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三、 Software Function Introduction

The KT-15W-24V-V1.0 wireless charging module supports 5W, 7.5W, 10W, and 15W wireless charging applications, with software version 0x3C2818A2.

1. This product consists of MCU BBX105 and MOS X5013 for wireless charging. BBX105 outputs 115KHz-205KHz PWM, and the power is loaded onto the LC circuit through MOS, causing the L coil to emit oscillating electromagnetic waves.

If there is a receiver within the range of the coil, the coil of the receiver receives electromagnetic waves and converts them into electrical energy to make the receiving chip work. After the chip works, it sends out data packets in the form of electromagnetic waves, which are transmitted back to the transmitting end through the electromagnetic induction principle of the coil.

3. BBX105 analyzes the communication code and takes corresponding actions based on the solved code, such as shaking hands, recognition, configuration, transmitting energy, monitoring and adjusting energy, etc. Support foreign object detection, OVP, OCP, OTP, Ping LVP and other abnormal error reporting functions.

4. LED light display

The KT-15W-24V-V1.0 product uses two LEDs as wireless charging status display, and the LED configuration for each status is as follows:

Power on: The blue-green indicator light will turn on for two seconds and then turn off

Standby: The indicator light is off

Wireless charging operation: The blue indicator light is constantly on

Fully charged: The green indicator light is flashing

FOD foreign object: green indicator light flashing

Overvoltage/undervoltage: Green indicator light flashing

Overheating: Green indicator light flashing

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四、 Test environment

Temperature: 20 °C~25 °C

Humidity: 25% to 75%

R. H atmospheric pressure: 86-106Kpa

五、 Reference standards

GB/T 2423.1 2008 Environmental testing for electrical and electronic products - Part 2: Test methods - Test A: Low temperature

GB/T 2423.2 2008 Environmental Testing for Electrical and Electronic Products - Part 2: Test Methods - Test A: High Temperature

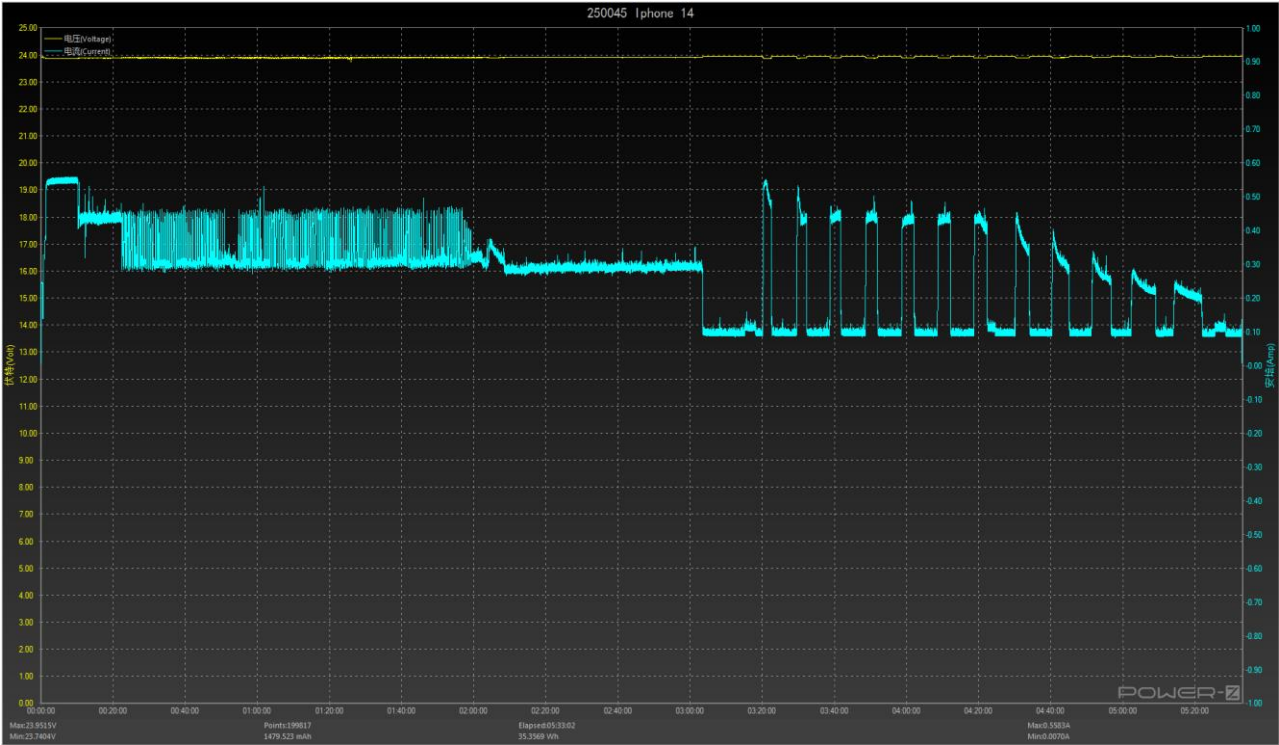
GB/T 2423.3-2006 Environmental Testing for Electric and Electronic Products - Part 2: Test Methods - Test Cab: Constant Damp Heat Test, etc

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六、Current input curve



iphone 16 满电测试曲线图 iPhone 16 Full Charge Test Curve Chart

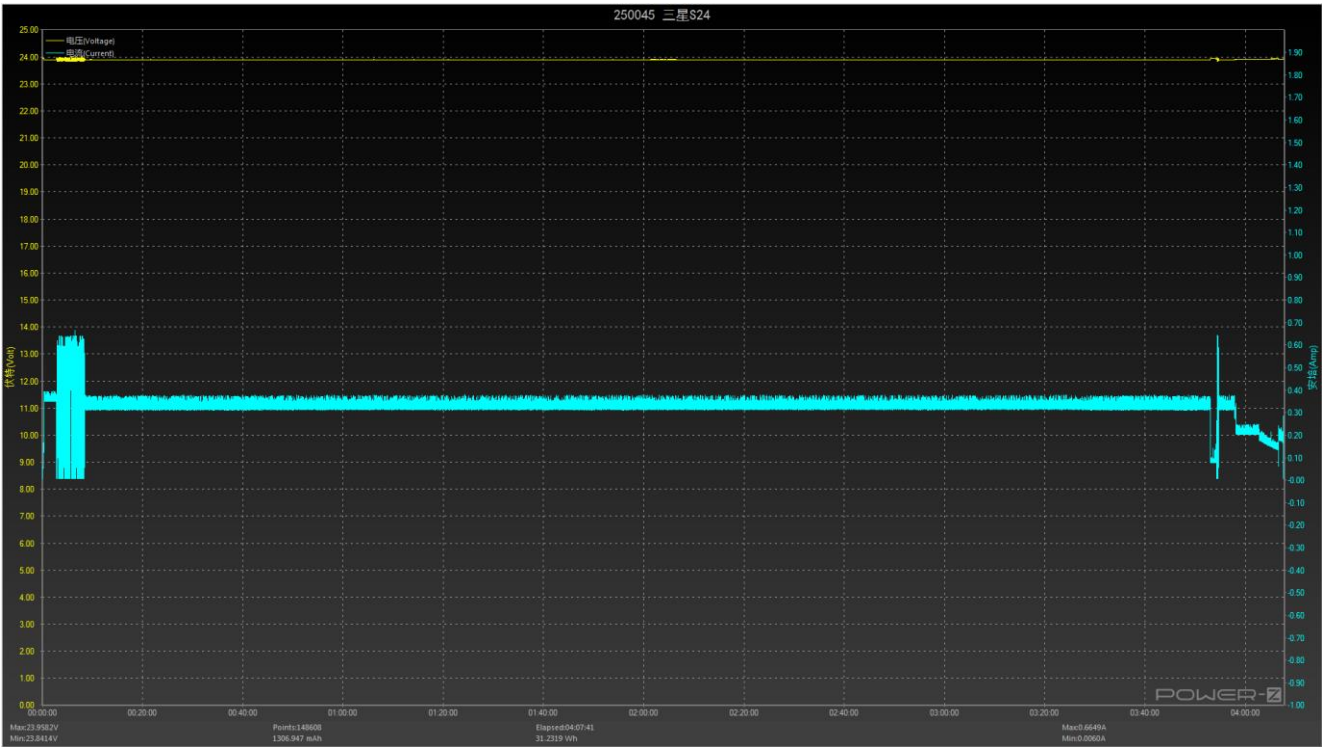


iphone 14 满电测试曲线图 iPhone 14 Full Charge Test Curve Chart

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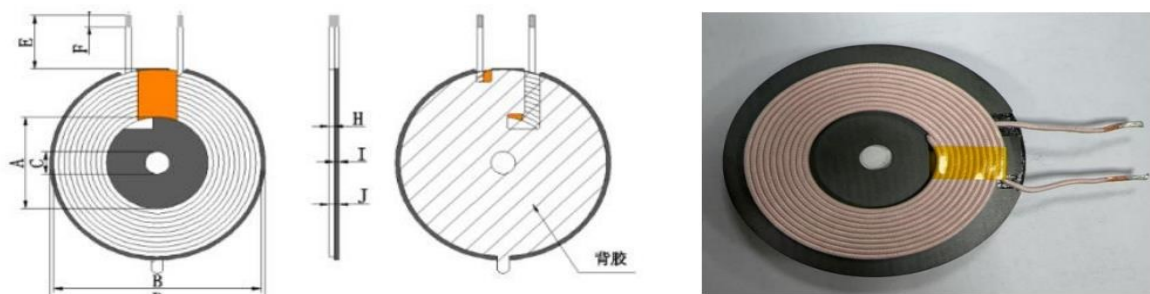
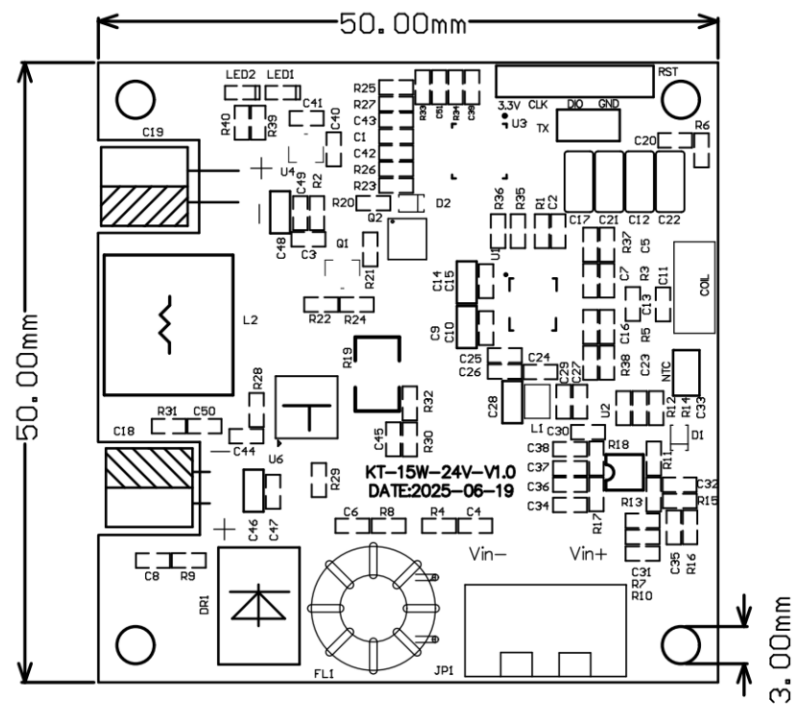
iphone 12 满电测试曲线图 iPhone 12 Full Charge Test Curve Chart



三星 S24 满电测试曲线图 Samsung S24 Full Charge Test Curve Chart

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七、Product board frame diagram



Note: The outlet position of the coil is wrapped with 7MM (ref) heat-resistant adhesive tape.

A	B	C	D	E	F	G	H	I	J
20.5±0.5	42±1	5±0.5	50±0.5	20±3	4±1	0.8±0.1	1.25Max		8Max

Unit: mm

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八、 FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.