

Product Specification

Product Model: OJD-Q203B

Product Name: Magnetic Wireless Charger

Document Number: 20250913

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Version History

Version	Modifications	Revised By	Revision Date
V1.0	Initial Release	Huang Xiansheng	2025.09.13

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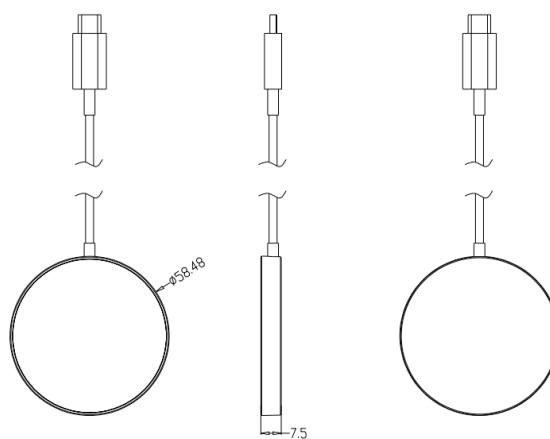
一、Product Introduction

1.1 Product Overview

This product is a flat magnetic wireless charger certified by Qi2.0. It achieves short-distance wireless power transmission through electromagnetic induction, eliminating the hassle of frequent plugging and unplugging for wired charging. It supports fast wireless charging for Apple magnetic phones or earphones. Compliant with the Qi v2.0 wireless charging standard of the WPC Alliance, this product can wirelessly charge all receiving devices that meet the standard.



Product Renderings



Product Dimensions: Diameter 58.48mm, Height 7.5mm (Dimensional Tolerance: $\pm 0.5\text{MM}$)

二、Product Package List

Serial No.	Name	Specification Description	Quantity	Unit
1	OJD-Q203 Host	OJD-Q203 Host	1	PCS
2	Packaging Box	OJD-Q203 Neutral Packaging Box	1	PCS
3	User Manual	OJD-Q203 Neutral User Manual	1	PCS

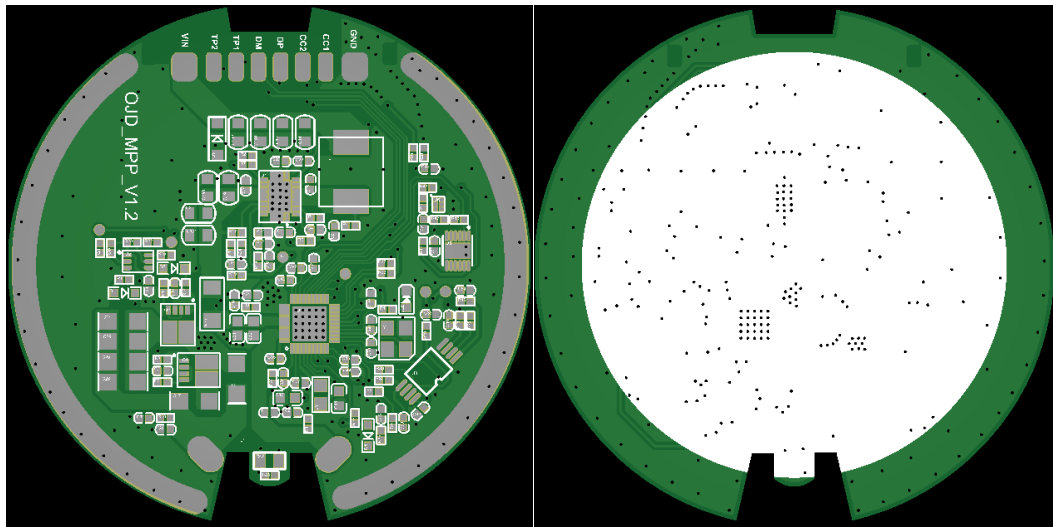
3. Hardware Parameters

3.1 Parameter Details

Serial No.	Category	Name	Description
1	Overall Machine Parameters	Product Dimensions	Diameter 58.5*7.5mm (Dimensional Tolerance: $\pm 0.5\text{MM}$)
2		Product Weight	/g ($\pm 5\text{g}$)
3		Motherboard Model	OJD_MPP15W_V1.2 Motherboard
4		Chip Solution	Ruihe XH1241
5		Input Interface	TYPE-C Cable Interface
6		Input Parameters	9V/2.22A
7		Output Power	Mobile Phone Wireless Charging 15W (MAX)
8		Conversion Efficiency	73%
9		Charging Method	Wireless Charging
10		Indicator Light	None
11	Coil Parameters	Coil Model	Qi2-Specific Hot Air Coil
12		Coil Type	Single Coil
13		Inductance Value	8.0uH $\pm 10\%$
14		Impedance	/
15	Protection Functions	Overvoltage Protection	Overvoltage Protection Value: 10.4V
16		Overcurrent Detection	Overcurrent Protection Value: 2.5A
17		Foreign Object Detection	Supported (One-Yuan Coin)
18		Short Circuit Protection	Supported
19		Temperature Protection	Reduce power at 70-75°C, shut down at 75-80°C, resume at 50-55°C.
20	Operating	Operating	-10°C~+45°C

	Conditions	Temperature	
21		Operating Humidity	20% ~65% RH
22		Storage Temperature	-10℃~+45℃

3.2 PCB Dimensions Drawing



Diameter 53.7*0.8MM (± 0.2 MM)

3.3 Coil Specification Dimensions

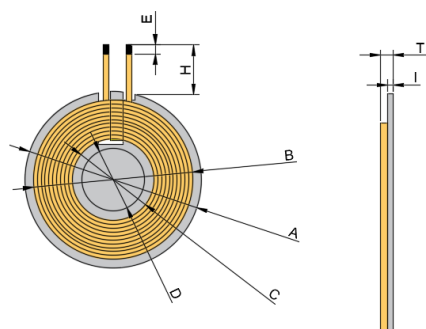
(1) Inductance

- A. L0A (Coil Alone) = 4.6uH $\pm$ 20%
- B. L0A (Coil + Magnetic Sheet) = 7.9uH $\pm$ 10%
- C. Q Value = 35 MIN
- D. DC Resistance (DCR): 70m Ω MAX
- E. Operating Temperature: -25 $^{\circ}$ C~85 $^{\circ}$ C

(2) Bill of Materials

NO	Item	Material
1	WIRE	$\varnothing$ 0.08*80P 2UEW
2	FERRITE	43.55.30.8 Double-Slot 20*0.8 Ferrite Hard Magnet
3	GLUE	White Glue/Yellow Glue
4	SOLDER	XCD-907B
5	Adhesive	Double-Sided Adhesive Tape
6	High temperature adhesive	8MM (ref) High-Temperature Adhesive Tape

(3) Outline Drawing



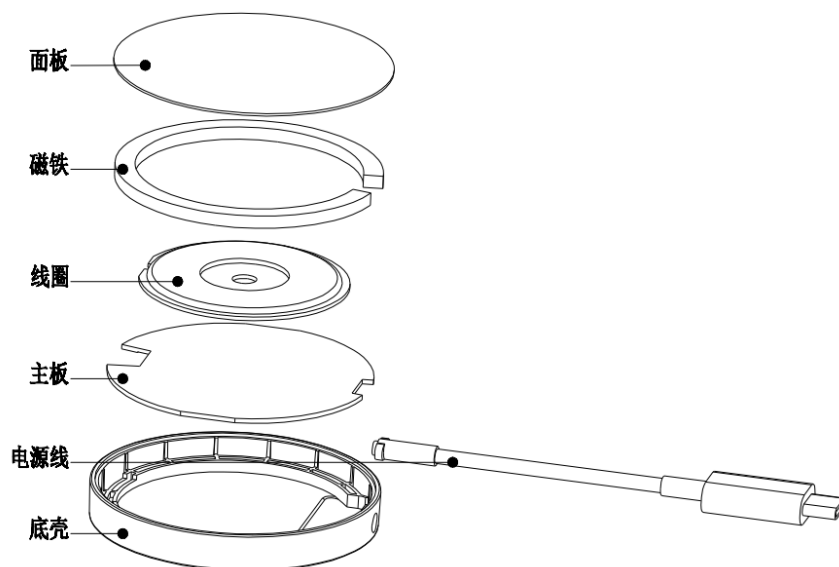
Note: The coil outlet position is wrapped with 8MM (ref) high-temperature adhesive tape.

Number of coils:10TS

Standard	A	B	C	D	H	E	I	T
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STD	43.5±0.5	39.0±0.5	20.5±0.5	20±0.3	10±2	2-4	0.8±0.1	2.3Max
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3.4 Product Explosion Diagram



4.LED Status Indication

None

5.Product Packaging

Size	mm (Tolerance: $\pm 1\text{MM}$)
Gross Weight	g (Tolerance: $\pm 5\text{g}$)
Accessories	Host x1
	User Manual x1

6.Product Test Report

See Attachment