

规格書

SPECIFICATION FOR APPROVAL

產品名稱

PART NAME

樣品序號

SAMPLE NO :

日期

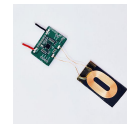
DATE:

5W Wireless charger RX

JH-RX-L25354726001

2021/06/12

貴公司承認印 BUYER'S APPROVAL STAMP				
	業務 Sales	測試 Test By	審核 Check By	核准 Approve By
	Annie	Jack	Benjamin	Michael



1. Scope

This document contains specific information for approvals and detailed description of an electrical function and testing of the **5W Wireless Charger RX**;

2. Approvals

2.1 Certificate and Approvals

- Qi Medium power v1.2
- FCC CE

Other approval certificates shall be applied according to customer requirements.

3. Environmental conditions

3.1 Temperature ranges

Operating temperature range is $0^{\circ}\text{C} \sim +35^{\circ}\text{C}$ where the wireless pad fulfills all specifications.

Storage temperature range is from $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$ where the wireless pad shall not cause danger for user when it is connected to mains system after 2 hours recovery time at room temperature without connection to mains.

3.2 Humidity

Relative humidity should be less than 90% non-condensing at full operating temperature range.

4. Wireless Transmitter Operation

4.1 Hardware

The wireless charging transmitter operates according to the Qi1.2 Medium Power , specification including surface temperature.

Key specifications:

Input Voltage:	5V
Max Input Current:	1A
Standards to be followed:	Qi1.2
Peak efficiency:	80% CP5W RX output
Stand-by power:	< 2000 mW
Coil type	Qi RX coil

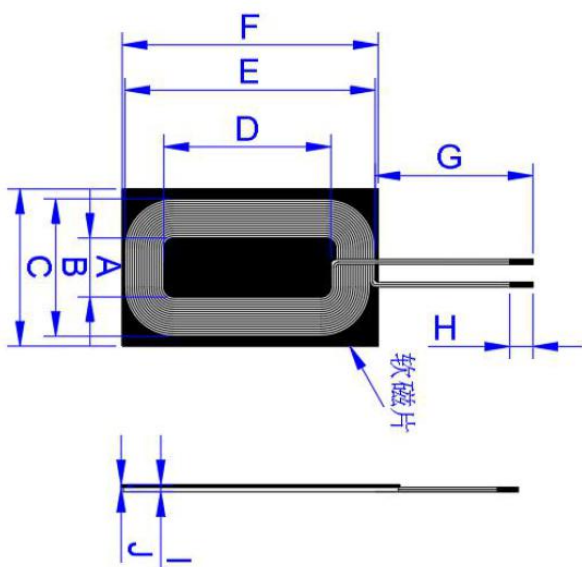
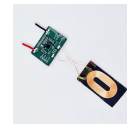


Figure 1. Physical dimensions of the product.

4.2 Block Diagram

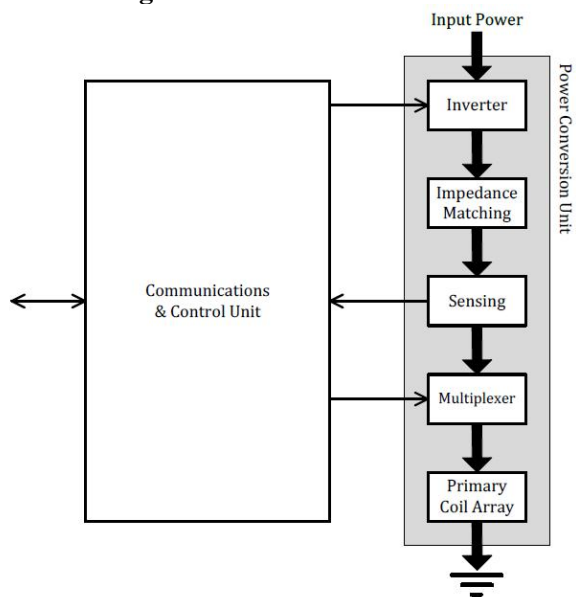


Figure 2. Simplified block diagram of the system

4.3 Requirement of audible noise

The audible noise shall be less than 50dBA from microphone at a distance of 25cm.

4.4 Freedom of placement

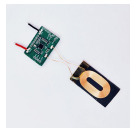
Active area of the :45*22mm (Circular Region)

5 Safety

5.1 General

All material meet RoHS Standard





The transmitter is designed for indoor use to meet safety standards mentioned in table 1. Wireless pad is a DC product all safety features are in the AC adaptor.

5.2 Over Temperature Protection

Not included in the system. FOD handles overheating of object on the transmitter surface.

5.3 Short Circuit Protection

The short circuit protection is included into construction of the wireless pad by Transmitter IC voltage monitoring. Receiver short will not cause wireless pad any damage.

5.4 Temperature of Components

The wireless pad component temperature shall be within its specification.

5.5 Housing Temperature

Temperature rise of the wireless pad surface comparing the ambient must be under +40°C in any operating condition at room temperature (+25C).

6.2 Radio frequency electromagnetic field immunity

The system fulfills the immunity to radiated radio frequency requirements of IEC 61000-4-3, 6V/m.

6.3 Immunity to conducted disturbances, induced by radio-frequency fields

The system fulfills IEC 61000-4-6 with 6Vrms requirements.

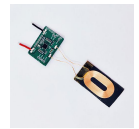
7.2 Input current

Max input current is 1A.

7.3 Standby power consumption

The maximum standby power consumption is 2000mW under room temperature (Adapter included).

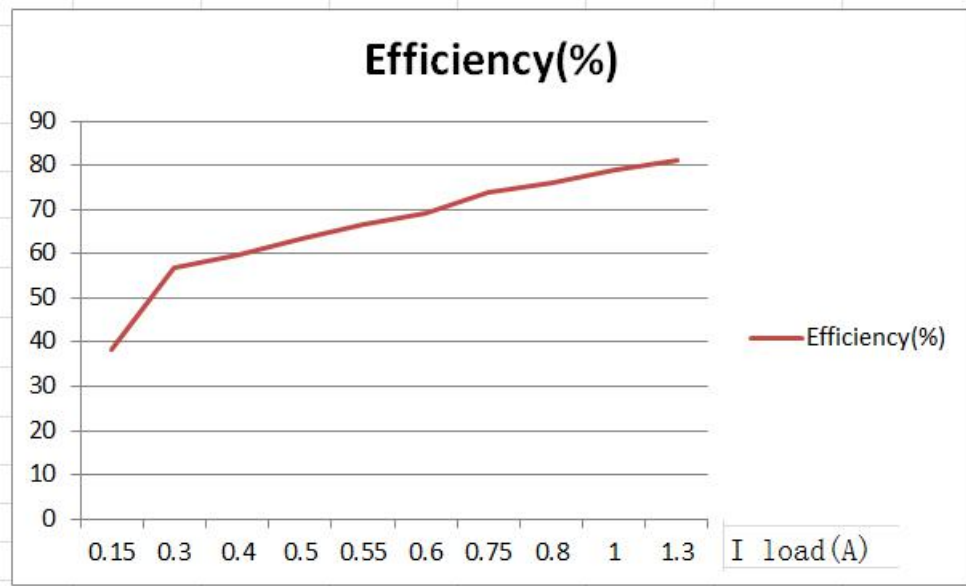
8.2 Efficiency (5W receiver) RX



JH-RX-L25354726001



RoHS / RoHS II Compliant



I laid(A)	Efficiency (%)
0.15	38.5
0.3	56.9
0.4	59.9
0.5	63.5
0.55	66.6
0.6	69.1
0.75	73.8
0.8	76.1
1	78.9
1.3	81.1

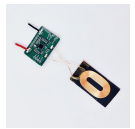
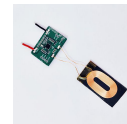


Figure 1. Transmitter efficiency vs. Load Curve

3 Technical Summary

8.1 Technical parameters

Input parameter	Type	Unit	Value
Input voltage	min	Vdc	5
	nom	Vdc	5
	max	Vdc	5
Standby power	max	mW	< 2000mW (Adapter included)
Input current	max	A	1.0
Peak Efficiency	min	%	80% @ CP 5W RX
Qi parameters			Value
Qi version	-	-	Qi 1.2 MP
Output parameter	Type	Unit	Value
RX Power	max	W	5



STORAGE AND OPERATIONAL CONDITION:

Storage condition

- Recommended storage conditions: $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$, 70%RH (Max.)
- Service life: Within the limits of six month from being produced.
- The appearance and solder ability should be check, if product is not in expiry date.

Operation Conditions

- Use condition limit: $T = -25^{\circ}\text{C} \sim 85^{\circ}\text{C}$, $\text{RH} \leq 90\%$.

NOTE:

- The parts are manufactured in accordance with this specification. If other conditions and specifications which are required, please contact us for more information.
 - We will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
 - In no case shall JH be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
 - When changing your production process, please notify us immediately.
- V) This drawings and specifications are the property of JH Electronic Ltd. and shall not be reproduced or used as this the basis for the manufacture or sale of apparatus or devices without permission.

CUSTOMED PRODUCTS

We can customize wireless charging solution according to Qi standard or your requirements. Email us: info@wirelesschargingcoil.com

ATTENTION: The electronic component is designed and developed for usage in general electronic products only. This products are not specifically designed for Military, Aviation, Aerospace, Life dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. We shall not be liable for incidental or consequential damages of any kind.