SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Wireless Transmitter Module for max 10W Rx Module

CUSTOMER ITEM:

PRODUCT MODEL: JY-T3-0502 _Rev.1.00

APP Date   :

APPROVAL SIGNATURE

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.

APPROVED	SALES BY	QUALITY ASSURE	ENGINEERING

<p style="text-align:center">CATALOG</p>

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1. Scope

1.1 The purpose of the document is to specify the functional requirement of a Wireless Power Supply's Tx Module for max 10W Rx Module..

1.2 The Wireless Power supply's Tx Module shall meet the ROHS requirement.

2. Product Characteristic

JY-T3-0502 is a multi-function wireless charging platform: Its transmission efficiency is up to 75% and can provide up to max 10W transmission capacity.
System operation frequency from 50KHz to 500KHz. Once the RX Receiver is identified, the Tx Module will output power by automatic adjustment. Provide the protection of power overload and metal sensing. LED light indicates the working activity.
LED indication light: ① LED is OFF – standby mode； ② Red LED (LED1) is ON flashing –operating mode；
Its dedicated power adapter has ultra-wide input voltage design, can work stably under AC100-240V/ 50-60HZ and can be used for users from all countries and regions.

3. Input Characteristics

3.1. Input Voltage & Frequency

Item	Minimum	Normal	Maximum
Input Voltage	11.4VDC	12VDC	12.6VDC

3.2. Standby Current Consumption

At 12VDC, Standby Current Consumption ≤ 0.002A

4. Output Characteristics（Rx_Module）

4.1. Static Output Characteristics <Vo & R+N>

Output	Rated Load		Peak Load	Output Range	R+N	Remark
Power	Min Load	Max Load				
10W	0A	2A(5V)	2.2A	5V±5%	<200mVpp	

Note: Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor.

4.2. Line & Load Regulation

Output	Load Condition		Line Regulation	Load Regulation	Remark
Power	Min Load	Max Load			
10W	0A	2A(5V)	±5%	±5%	

5. Reliability Requirements

5.1 Reliability Test

Test Items	Test conditions	Test quantity
Storage at high temperature test	+80℃ 16 Hrs	2PCS
Storage at low temperature test	-20℃ 16 Hrs	2PCS
Operating at high temperature test	+45℃ 8 Hrs	2PCS
Operating at low temperature test	-20℃ 8 Hrs	2PCS
Low Temperature turn on test	EUT should start-up normally after storage at 0℃ of 2 hours under minimum input voltage and maximum load.	2PCS
High/low Temperature circle test	45℃(2Hrs)→-40℃(2Hrs)→45℃ (2Hrs) →-40℃(2Hrs) Continually work 16 Hours	2PCS
Constant Temperature turn on test	+25 ℃ 80%RH,continually operating 48 hours	2PCS

5.2. Burn-in

4 hours at 40℃(+/-5℃), Nominal input voltage, Nominal load.

5.3. Vibration

10 to 300Hz sweep at a constant acceleration of 1.0G（Breadth:3.5mm）for 1Hour for each of the perpendicular axes X,Y,Z
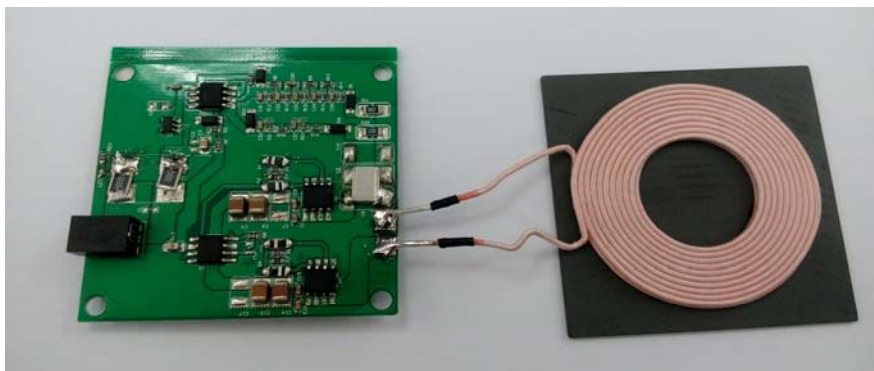
6. Environment Requirement

6.1 . Operating Temperature and Relative Humidity

0℃ to 40℃ 20%RH to 80%RH @Sea level shall below or no more than 10000 feet.

6.2 . Storage Temperature and Relative Humidity

-30℃ to + 70℃ 10%RH to 90%RH(non-condensing) @Sea level shall below 30000 feet.

7. Photo of Product

Description:

1. The distance between Tx Coil with PCB and other metal components is Min: 5.0mm

2. The surface distance between Tx Coil and Rx Coil is 3 –5mm.

8. Exterior Features

8.1. Size

L*W*H

PCBA : 50* 48 * 4 mm

Coil + Shielding : 50 * 50 *3 mm

9. Major Test Equipment

9.1.   DC Supply

9.2.   Rx_Module：JY-R3-0701

9.3.   ELECTRONIC LOAD

9.4.   OSCILLOSCOPE

9.5.   Logical Analyzer