

Sample Acknowledgement

Part Approved Sheet

Customer	Huizhou Xinminghai Technology Co., Ltd.
Edition P.N	19.0102.0383-00
Product Name	Outsourcing PCBA
Type Specification	Shuoxun, wireless charging 15W_V4.0, silicone wire, XH-2P with clip 2.54mm, UL3239, 22AWG, 150℃, red/black, L=180±10mm (second edition DCDC chip, add common mode inductor), three-proof coating, no
Net Weight	29.73g

Prepared by Supplier to draft (or stamp)/Date	Checked by Review/Date	Approved by Approval/Date

☒ Custom parts (non-standard) ☐ Standard parts

Customer Approval The customer acknowledges the counter-signature (or stamping) / date.	Checked by R&D Review/Date	Checked by Quality Audit/Date	Approved by Approval/Date

Supplier Name: Shenzhen Shuoxun Electronics Co., Ltd.

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1.Scope of application

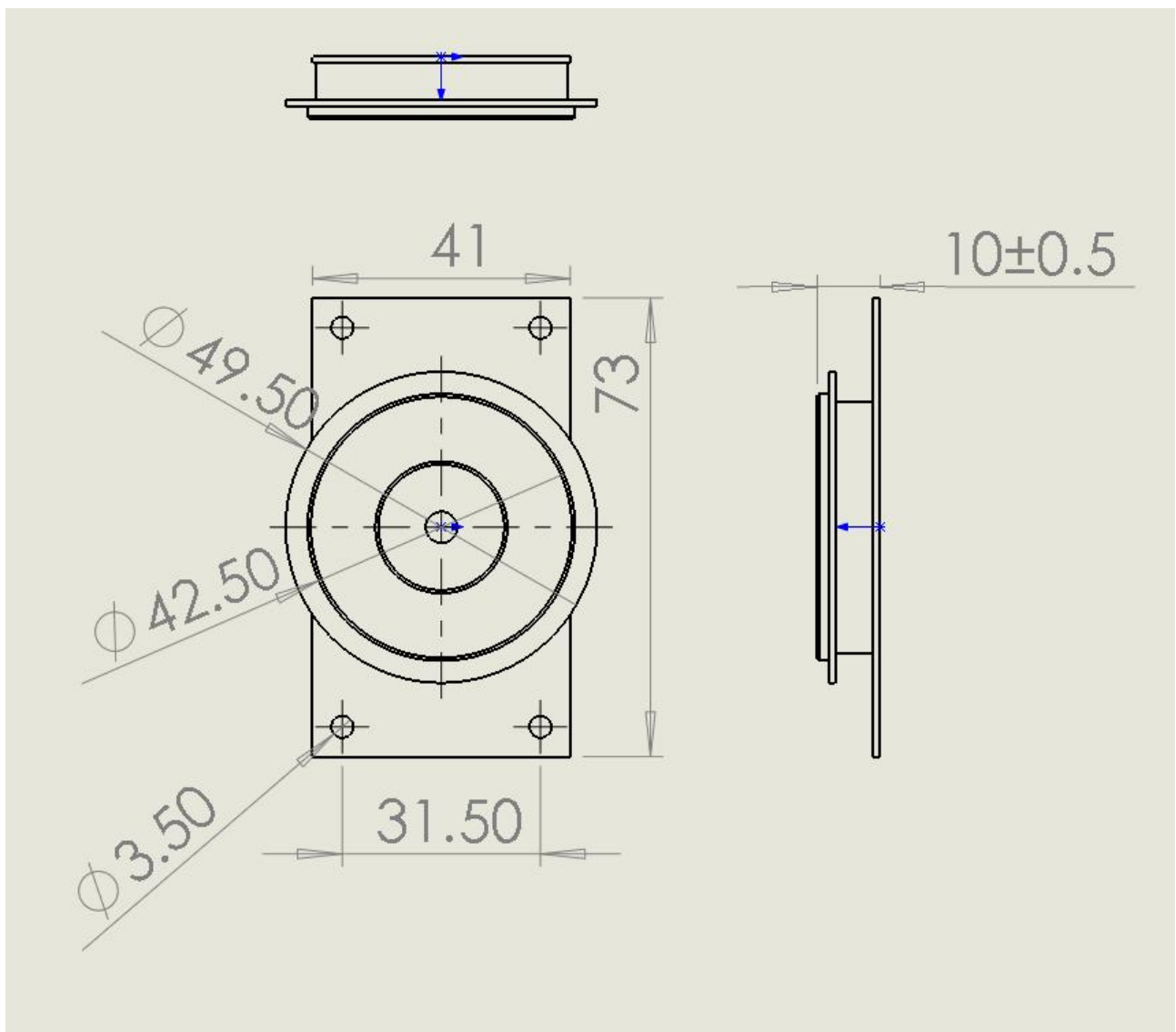
This product is suitable for mobile phones with wireless charging function and compatible electronic devices with wireless charging reception that comply with the published Qi protocol;

2.Launch coil

2.1Coil parameters

Test project	Parameter characteristics	Precision
Inductance (μH)	6.3 μH -6.9 μH	$\pm 5\%$
DCR ($\text{m}\Omega$)	60 (max)	/

2.2Coil size



3. PCB

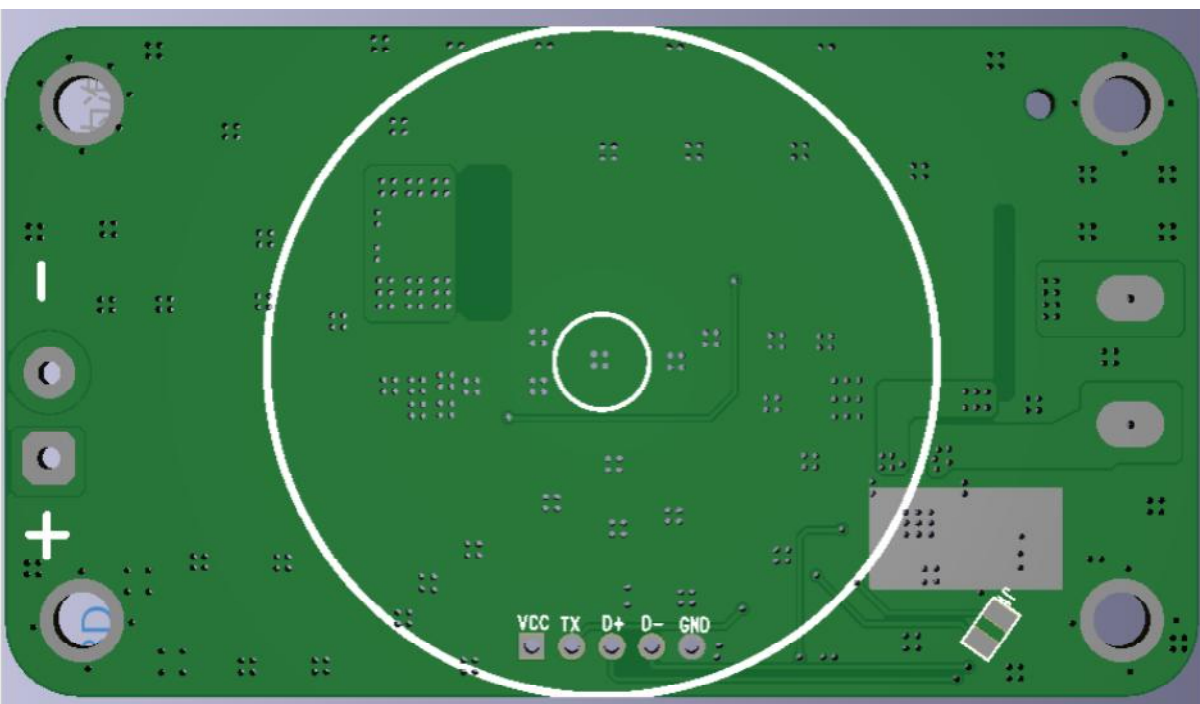
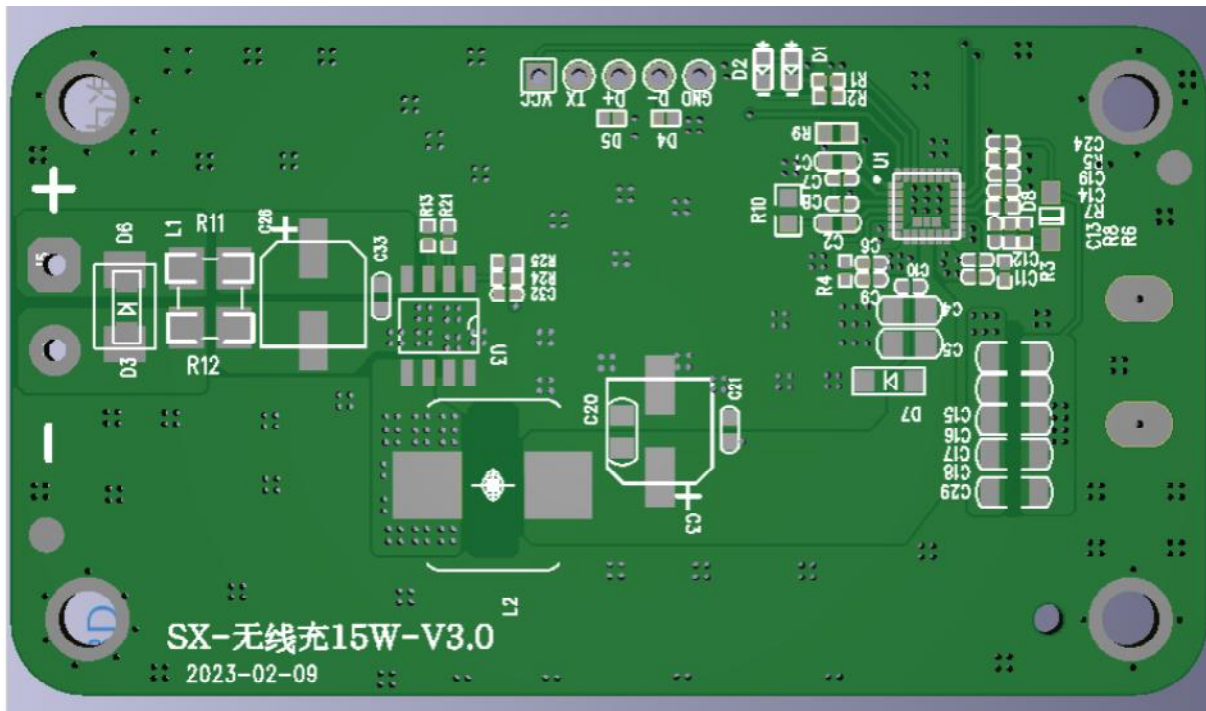
3.1 PCB Dimensions and manufacturing standards

PCB L×W: 73mm×41mm(±0.1mm)

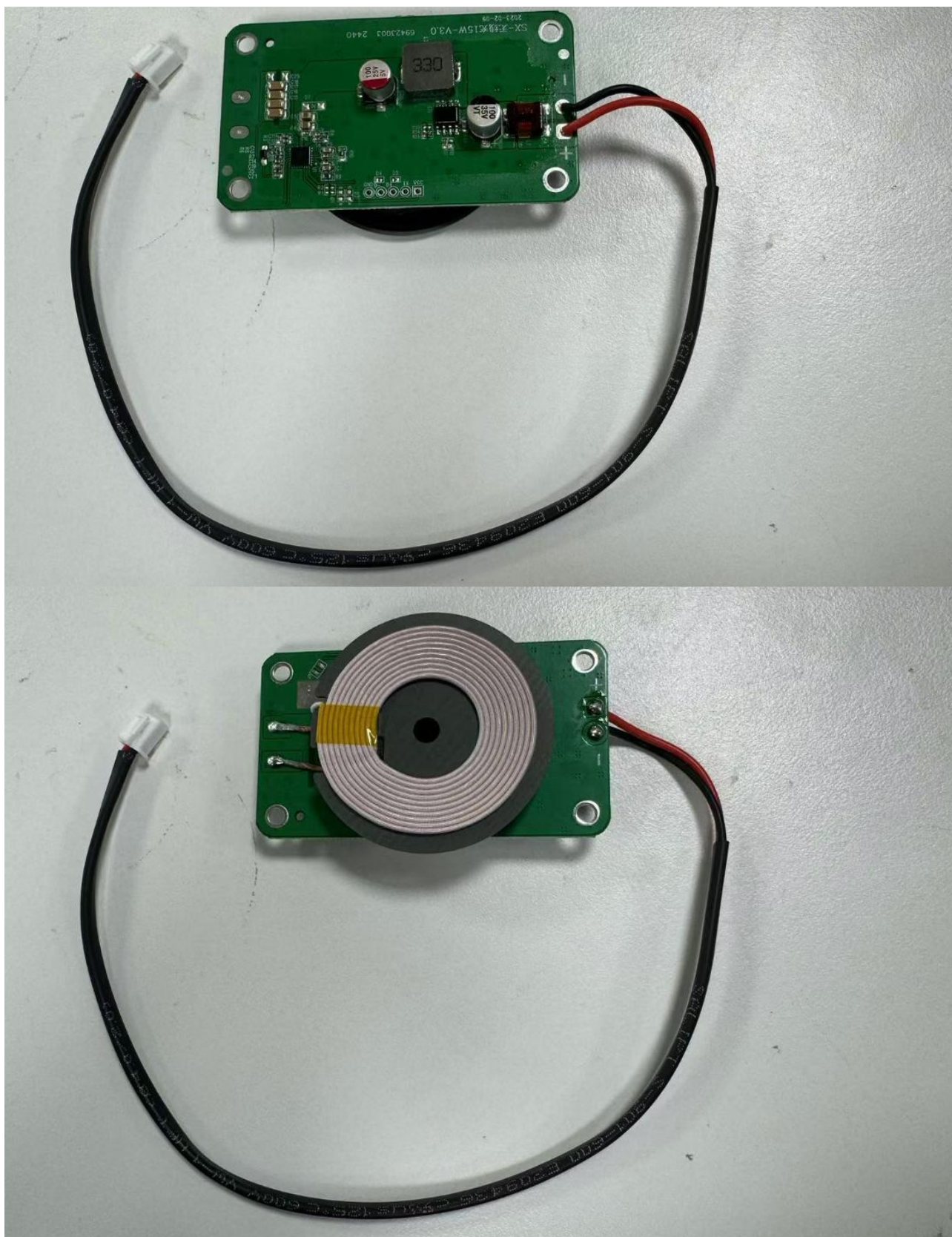
PCB Board thickness: 1.0mm (±0.1mm)

PCBC raft requirements : 94V0,Two-layer board , Lead-free wave soldering, Green oil white words, Through-hole cover oil

3.2 Wiring diagram



4. PCBA Module real shot front and back



										变更版本 version A0	变更内容 Change content 新建	签署 Sign	日期 Date
裁线压接 Cut-line crimping													
回路号	电线	☆线长	左端			右端			备注				
			☆线口长	线口处理	★拉力	☆线口长	线口处理	★拉力					
1	UL3239 22AWG黑/红	185	2.5±0.5	XH-T11		2.5±0.5	剥皮沾锡ODMAX1.3		☐ 样品图纸 Sample dwg ☐ 试产图纸 Trial PD dwg ☒ 量产图纸 Mass PD dwg				

技术要求
Technical requirements

- 符合RoHS环保要求
- 线身字体清晰，无破皮等不良
- 上锡表面应光滑，线芯不分散
- 端子可承受 拉力不松散

批准 Approve	比例 Scale	1:1	W. 1.0006
校对 Check	单位 Unit	mm	
设计 Design	孟庆强		
Page: 1/1	东莞市思加图电子科技有限公司 Dongguan Scato Electronic Technology Co., Ltd		

号码 No.	供应商 Suppliers	种类 Species	物料名称 Number of materials	数量 Quantity	单位 Unit
1	联和	端子	XH-T11	2	PCS
2	联和	胶壳	XHB-2Y	1	PCS
3	好的	线材	UL3239 22AWG 红/黑	0.185*2	M
4	鸿越	热缩管	Φ4.0 黑色 125° 600V VW-1	1	PCS

5. PCBA Environmental conditions:

5.1 Operating environment

5.1.1 Temperature: 0℃-----40℃

5.1.2 Humidity: 30%RH-----70%RH

5.2 Storage conditions

5.2.1 Temperature: 23℃±5℃

5.2.2 Humidity: 30%RH-----70%RH

6. Transmitter electrical performance

6.1 Transmitting end input

Input characteristics	Min	Typ	Max	备注
DC-12VRatedinputvoltage	10V	12V	15V	
Standby current	12mA	20mA	25mA	

6.2 Transmitter output

Output		Min	Typ	Max
DC-12V/1.8A (15W)		0.45A	0.8A	1.2A
Frequency	Samsung	110KHz		148KHz
	Apple	/	127.7KHz	/
Power		5W	10W	15W

6.3 Transmitter operational indication status---No LED

Charging status	LED Status
Power on	/
Standby	/
Charging	/
Filled with	/
Charging error	/
FOD	/

6.4 Other performance of the transmitter:

Supports power adapter	DC12V -1.8A
Foreign Object Detection (FOD)	Supports 1 yuan coins, button batteries.
Overheat protection	80℃ ±5℃
Undervoltage protection	Support, 10V (±0.2V)
Overvoltage protection	15V (±0.2V)
Charging freedom	X:6mm max Y:6mm max Z:6mm max
Conversion efficiency	70%–80%

7.SX-Wireless charging15W-PCBA Module BOM List

Shenzhen Shuoxun Electronics Co., Ltd.

SX-Wireless charging 15W-V1.0-BOM List

Drawer: bin huang		Review:		Version number : V3.0	Date: 2023-11-10	
Number sequence	Product Name	Specification description	Position number	Encapsulation	Single-use dosage	Note
1	SMD capacitor	10nF/50V/0402	C7-11 C14	C0402	6	
2	SMD capacitor	1nF/50V/0402	C19	C0402	1	
3	SMD capacitor	220nF/50V/0402	C12 C6	C0402	2	
4	SMD capacitor	100nF/25V/0603	C33 C21	C0603	1	
5	SMD capacitor	6.8nF/50V/0402	C13	C0402	1	
6	SMD capacitor	4.7uF,10%/16V/X7R	C1-2	C0603	2	
7	SMD capacitor	10uF,10%/25V/X5R	C4-5	C0805	2	
8	Electrolytic capacitor	100uf/20%/25V/solidity	C3	Patch electrolysis	1	
9	SMD capacitor	100pF,10%/0402/50V	C24	C0402	1	
10	Electrolytic capacitor	100uF/20%/35V	C26	Patch electrolysis	1	
11	SMD capacitor	NC	C32	C0402	0	NC
12	chip resistor	100K,1%	R5	R0402	1	
13	chip resistor	10K,1%	R7	R0402	1	
14	chip resistor	1R,1%	R3-4	R0402	2	
15	chip resistor	1.8K,1%	R6	R0402	1	
16	chip resistor	62K, 1%	R21	R0402	1	
17	chip resistor	20K,1%	R8	R0402	1	
18	chip resistor	0R 1%	R11 R12	R1206	0	NC
19	chip resistor	100K 1%	R24	R0402	1	
20	chip resistor	11K 1%	R25	R0402	1	
21	chip resistor	0R 1%	R10	R0603	1	
22	NTC resistance	100K NTC B=4250	R9	R0603	1	
23	chip capacitor	Wireless dedicated patch capacitor 1206/104/50V/M3L/NPO	C15-18	CAP1206	4	
24	IC	SP3600 master controlSOC, Contains firmware	U1	QFN28	1	
25	Diode	SS14,IN4148	D8	SOD-323	1	
26	DCDC	TM12283QED	U3	SOP8	1	
27	Patch inductance	33uH 20% 4.5A	L2	10.5*11.5*3.8	1	
28	Line-up modules	A11 slot with 15mm EVA diameter of 40mm and 6mm thick hole in the middle	A11		1	
29	PCB	73*41*1mm lead-free spray tin, green oil white characters, through hole cover oil			1	
30	TVS tube	TVS_15V	D6	SMB	0	NC
31	Common-mode inductance	070604-700 Ω	R11 R12 D6	7.3*6.0*3.8	1	
Silicone tubing	wire stock	UL3239-22AWG22/0.14TS, red and black single line 180mm, one end is soldered, the other end is XH-2P with clip 2.54mm white female terminal, plus black heat 。	+ -		1	
				合计	41	

8. Material declaration

Promised that the materials and processes of the product comply with ROHS control standards;

9. manner of packing :

Stretch film pallet + carton