



Shenzhen Heyixun Technology Co., LTD

SPECIFICATION FOR APPROVAL

customer Name	Guangzhou Youwo Technology Co., Ltd.		
Customer project Name	BS907W2H	BS588H2M	BS907W2H
customer P/N	22142040079	Heyixun P/N	HYX008-BS907W2H-L-V5
Antenna Type	FPC		
version	A0		
Designer Information			
RF Engineer	renyinan	EE Engineer	Feng Xiaoheng
ME Engineer	Xu Liang		

Heyixun Approval				customer Approval	
	prepared	checked BY	Approval BY	checked BY	Approval BY
signature	Xiao Li guo				
Date	2026-5-21				

change Log				
version	change Description	person in charge	Approval BY	Date

catalogue

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Drawing or Product Image

Silkscreen white, antenna black

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注:

1. The back adhesive uses 3M 9471 300LSE, with a viscosity of over 300MP, the shape the back adhesive is consistent with the base material, covering the back of the base material, and the back adhesive is half-cut;
2. Material single-sided, substrate half-pair, good flexibility.;
3. The surface of the product does not crack after bending at 180° after oiling, and the flexibility is good;
4. Gold-plated surface of the golden finger, no oxidation phenomenon, at the junction of the copper foil, no cracks or non-conductive phenomenon after 180° bending ;
5. Tolerance range for precise wiring and holes: $\pm 0.03\text{mm}$, tolerance control for external dimensions within 0.1mm.;
6. Dimensions with ★ are strictly controlled; those with * are key dimensions; unmarked dimensions are measured at a scale of 1:1 based on the electronic file;
7. Surface printing, for specific content and position, see the picture;
8. Not the original shape, need to cut the shape well and then send the sample to our company

Shenzhen Hexi Information Technology Co., Ltd.									
Third angle method		Model		907		Date		2026-2-4	
0~10		± 0.10		0.02		Product name		BT	
10~20		± 0.12		0.03		Material number		HTX008-907-L-115	
20~40		± 0.15		0.02		Material		PFC+3M9471	
40~		± 0.20		0.04		Radio frequency		Remyinan	
Do not measure the damage		Location		Unit		mm		Proportion	
1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	
21		22		23		24		25	
26		27		28		29		30	
31		32		33		34		35	
36		37		38		39		40	
41		42		43		44		45	
46		47		48		49		50	
51		52		53		54		55	
56		57		58		59		60	
61		62		63		64		65	
66		67		68		69		70	
71		72		73		74		75	
76		77		78		79		80	
81		82		83		84		85	
86		87		88		89		90	
91		92		93		94		95	
96		97		98		99		100	
101		102		103		104		105	

Sample Dimensions Test Report

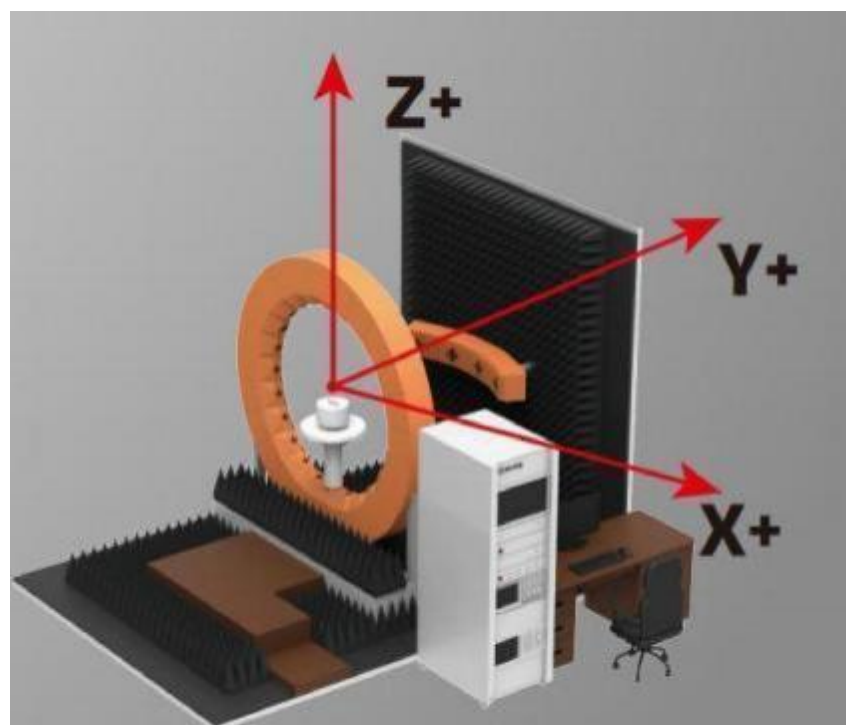
Customer Name	Guangzhou Youwo Technology Co., Ltd.	Customer P/N		HeYixun P/N	HYX008-BS907W2H-L-V5
Test Date	2026-5-21	Sample Qty.	3	Inspector	Xiao Ligu
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	14.59±.2mm	14.60mm	14.59mm	14.58mm	Pass
②width	11.34±0.2mm	11.34mm	11.34mm	11.32mm	Pass
③Thickness	0.2±0.05mm	0.20mm	0.21mm	0.21mm	Pass
Conclusion					PASS
Inspector & Date	Xiao Ligu 2026-5-21		Approval & Date		

RF Performance Test Report

customer Name	Guangzhou Youwo Technology Co., Ltd.	project Name	BS907W2H	Heyixun P/N	HYX008-BS907W2H-L-V5
Band	2400-2500MHZ	Test Date	2026-5-21	Inspector	Xiao Ligu

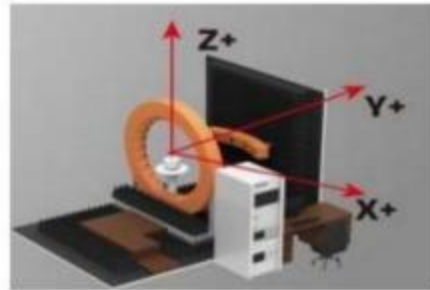
Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071c and Agilent 5071c vector network analyzer ; The radiation pattern of the antenna are tested using the ETS star lab 3D near field Anechoic Chamber, and the instrument is used to agilent 8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows :



1. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



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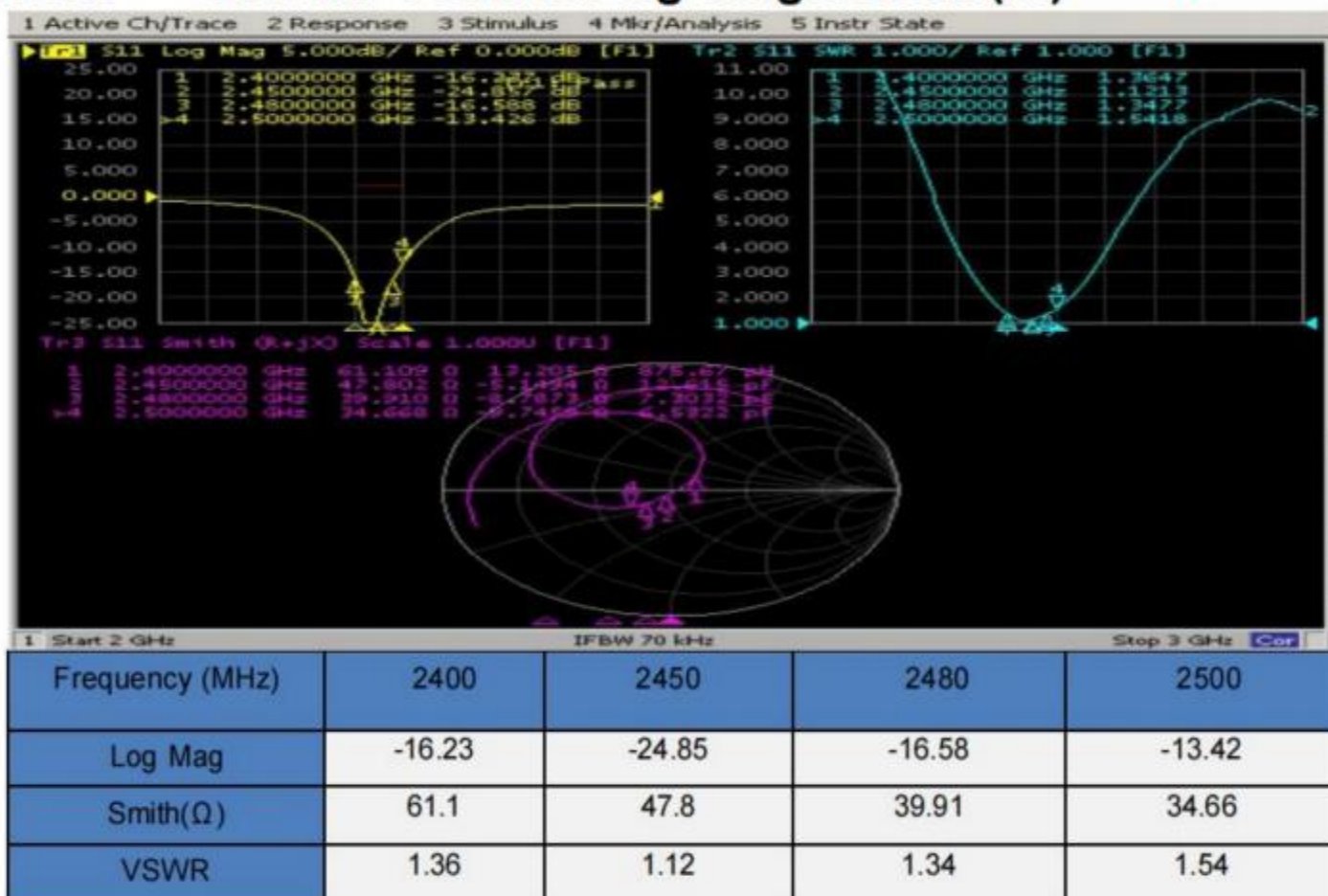
HY0521P1

1.5PF

0Ω

2. Test Result VSWR&Log Mag&Smith(Ω)

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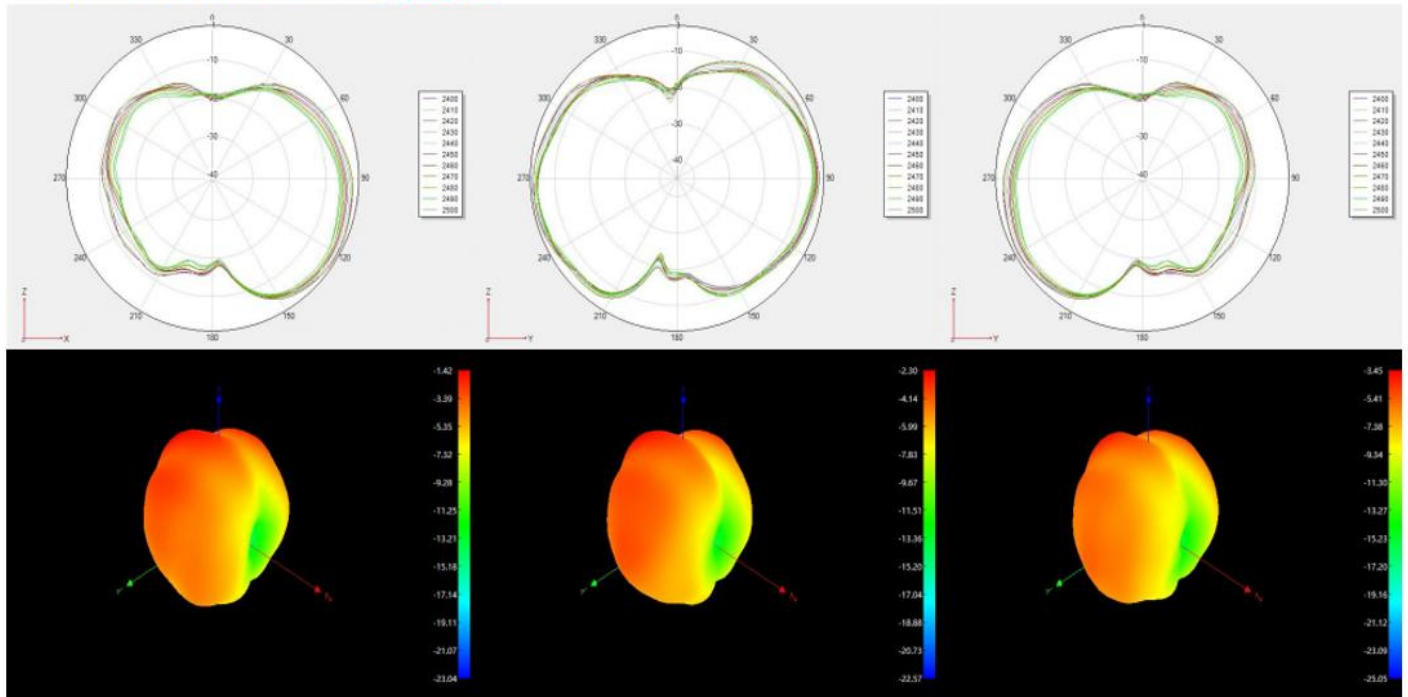


3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	28.97	-1.42
2410	28.38	-1.21
2420	27.99	-1.07
2430	27.04	-1.39
2440	26.36	-1.9
2450	25.06	-2.3
2460	24.04	-2.35
2470	22.18	-3
2480	21.13	-2.85
2490	19.82	-3.69
2500	19.36	-3.45

3. Test Result

3.1 2D Pattern——BTANT

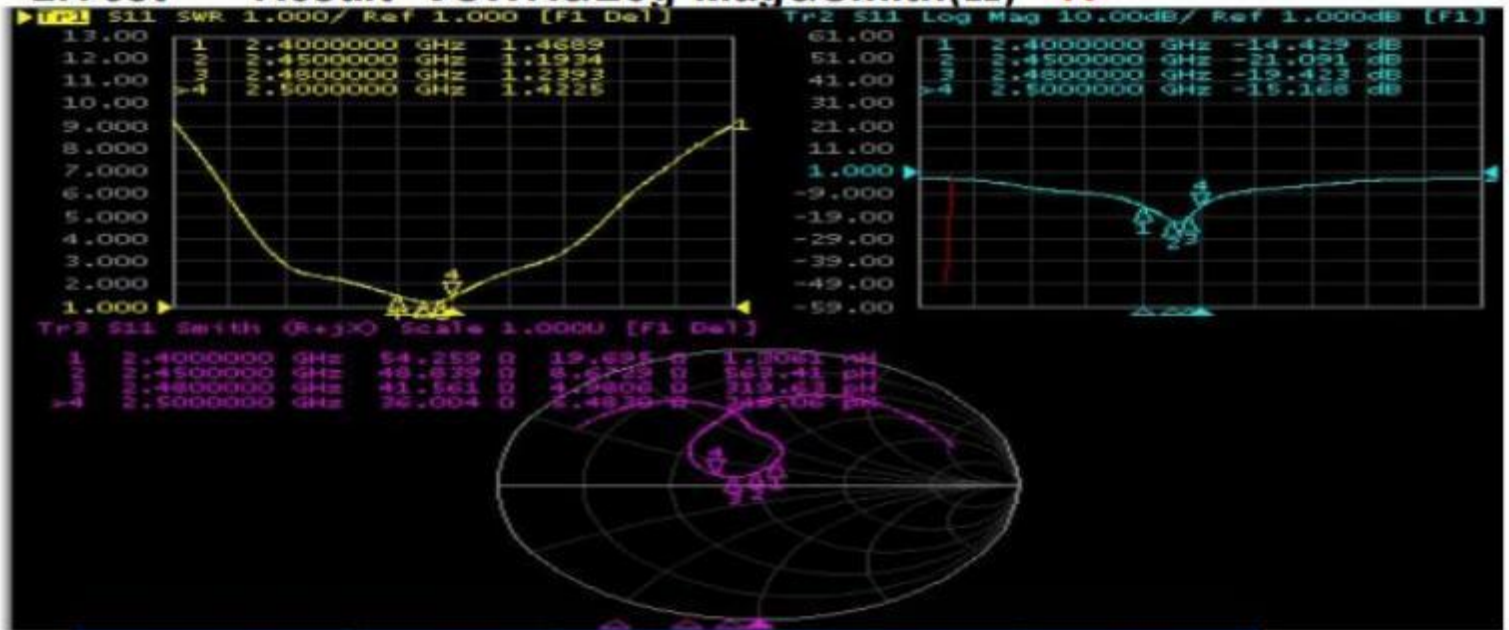


3.OTA Data

free data

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
L	0	2.61	-88.57
	39	2.31	-88.13
	78	0.54	-87.2
R	0	2.27	-87.64
	39	2.03	-87.73
	78	0.2	-86.47

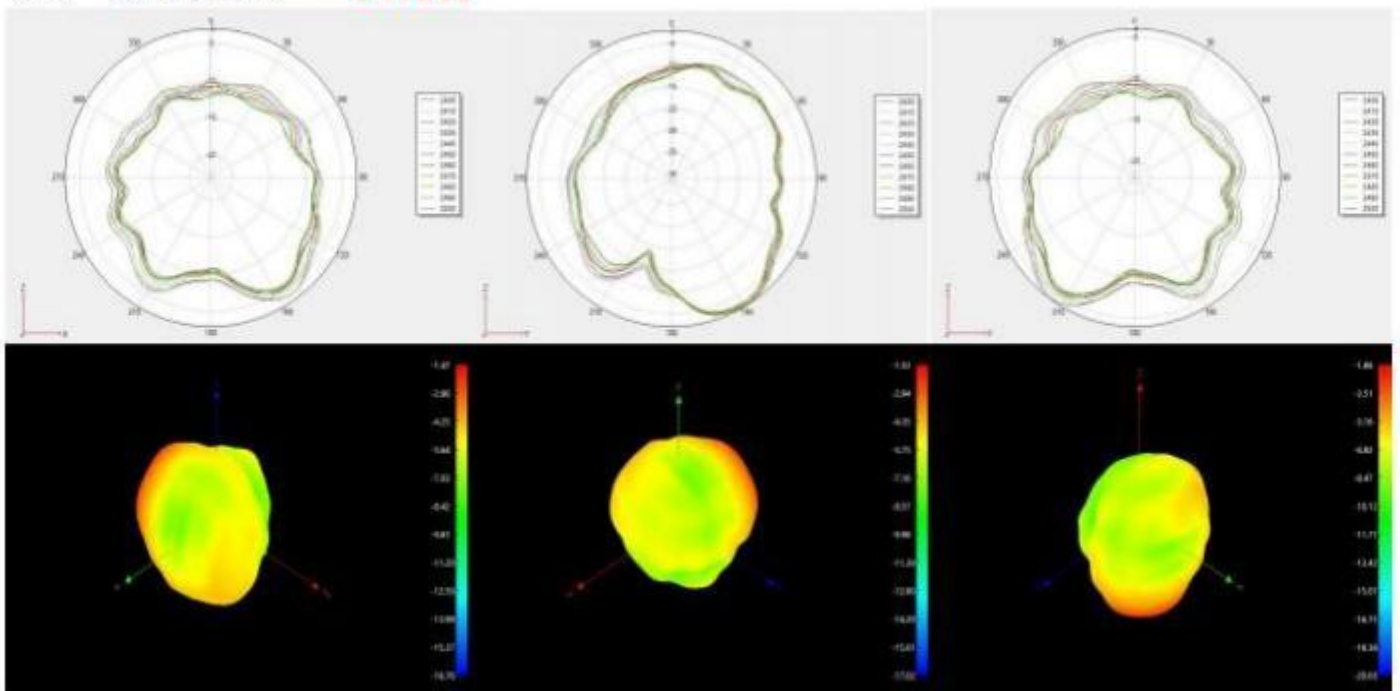
2. Test Result VSWR&Log Mag&Smith(Ω) R



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-14.42	-21.09	-19.42	-15.16
Smith(Ω)	54.25	48.83	41.56	36.00
VSWR	1.46	1.19	1.23	1.42

3. Test Result

3.1 2D Pattern—BTANT



3.OTA Data

Head model data

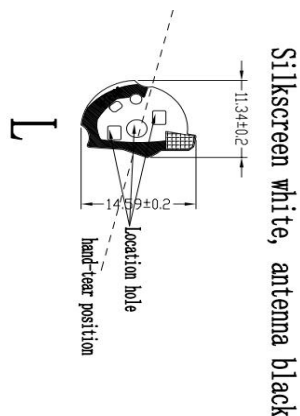
Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
L	0	0.27	-86.19
	39	-0.15	-85.64
	78	-1.82	-84.93
R	0	0.03	-85.79
	39	-0.43	-85.07
	78	-1.58	-84.11

Reliability Test Report

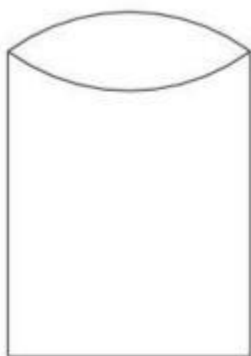
customer Name	Guangzhou Youwo Technology Co., Ltd.	customer P/N	22142040079	Heyixun P/N	HYX008-BS907W2H-L-V5	
Test Date	2026-5-21	sample Qty.	3	Inspector	Xiao Li guo	
Test Item	Requireme	testing equipment	sample 1	sample 2	sample 3	PASS/NG
High temperature storage	The test was performed after 24 hours of exposure at +85° C and 2 hours of recovery	Constant temperature and humidity chamber	OK	OK	OK	Pass
Cryogenic storage	The test was performed after 24 hours of exposure at -40° C and 2 hours of recovery	Constant temperature and humidity chamber	OK	OK	OK	Pass
High temperature operation	Operates at +60° C for 24 hours	Constant temperature and humidity chamber	OK	OK	OK	Pass
Operates at low temperatures	It works on power for 24H at -20° C	Constant temperature and humidity chamber	OK	OK	OK	Pass
Salt spray test	(5 Shi 0.5)*Sodium chloride, pH value is 6.5~7.2, and the temperature of the experimental chamber is (35 ±2)° C ☒ 24H ☐ 48H	Salt spray testing machine	OK	OK	OK	Pass
Connector riveting pull-out force	1.13 Wire size ≥10N 0.81 Wire size ≥8N RG174 ≥60N RG178 ≥50N	Push-pull force gauge	/	/	/	/
Conclus ion						Pass
Inspector & Date	Xiao Ligu o 2026-5-21		Approva l &D ate			

PACKING CRITERION

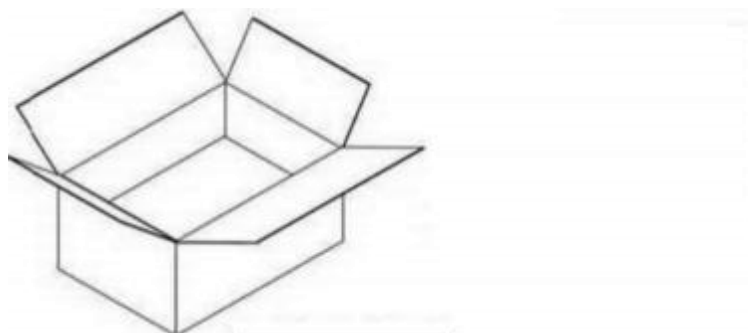
1、Single product (subject to actual packaging)



2、Large PE bag packaging (full version/single 90pcs) (subject to actual packaging)



3、Seal the box, and affix our company's production label and ROHS label to the outer box. (Subject to actual packaging)



Shenzhen Heyixun Technology Co., LTD

Environmental requirements

MSDS (Material Safety Data Sheet)	Offer ☐ Not available ☐ N/A
COC (Environmental Protection Agreement)	Offer ☒ Not available ☐ N/A
Technical standards for environmentally friendly hazardous substances	Offer ☐ Not available ☐ N/A
Specific environmental requirements	☒ ROHS2.0 COMPLIANT ☒ ROHS2.0 COMPLIANT ☒ Halogen-free ☒ Meets California 65

Environmental treatment

Assembly method of L and R edges

Battery wire twisted 1-2 turns



The negative pole of the battery is facing the motherboard as shown in the figure

Horn wire twisted 1-2 turns