

### SPECIFICATION FOR APPROVAL

customer Name	Guangzhou Youwo Technology Co., Ltd					
Customer project Name	BO807Z3K		BO807Z3K			
customer P/N		Heyixun P/N	HYX008-BO807Z3K-R-V8			
Band	2400-2500MHz					
vers ion	A1					
	Designer Informatio	on				
RF Engineer	Xu Liang	EE Engineer	Shi Zhenhao			
ME Engineer	Xu Liang					

	Heyixun Approv	customer Approval			
	prepared	checked BY	Approval BY	checked BY	Approval BY
signature	Zhu Zengyuan				
Date	2024-12-24				

	change Log							
vers ion	change Description	person in charge	Approval BY	Date				



	catalogue				
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#### Drawing or Product Image

		D			С		В	A
	No.         Layer           1         Adhesive backing           2         Substrate	8. The non-appearance ne	6. The ★ size is strict measured according to t 7. Printing on the surfa	<ol> <li>the surface of the gold tinger is pl or conduction phenomenon after 180° b</li> <li>The precise tolerance range of wirin dimensions is controlled within 0.1mm;</li> </ol>	3. There is no crack o	<ol> <li>1. The adhesive is mad the adhesive is consisten adhesive is cut in half;;</li> <li>2, single-sided version</li> </ol>	Concentrate:	
PSM-800FSDM-ASMH-80	Uescription(Inickness) 309471LM KUN-800F NHG3<10μm>	8. The non-appearance needs to be cut and sent to our company after the sample is sent	6. The ★ size is strictly controlled, marked with * as the key size, and the unmarked size is measured according to the CAD electronic drawing file 1:1; 7. Printing on the surface, see the figure for the specific content and location:	4. The surface of the gold tinger is plated with gold 0.5 2µ, no oxidation, and there is no crack or conduction phenomenon after 180° bending at the junction of copper foil; 5. The precise tolerance range of wiring and holes: ±0.03mm, and the tolerance of external dimensions is controlled within 0.1mm;	There is no crack on the surface of the product after being bent at 180°	<ol> <li>1. The adhesive is made of 3M 9471 300LSE, the viscosity is more than 300MP, the shape of the adhesive is consistent with the substrate, covered on the back of the substrate, and the adhesive is cut in half;;</li> <li>2, single-sided version of the material, one-to-one base material, good flexibility;</li> </ol>		
3 unital	Manufacturer &P/N 3M CAI Lungetti	after the sample is sent.	y size, and the unmarked size is ntent and location:	no oxidation, and there is no ci of copper foil; and the tolerance of external	ing bent at 180° after being	s more than 300MP, the shape of back of the substrate, and the aterial, good flexibility;		Silk scre
50 000	<u>±0.15</u> <u>±0.20</u> レ	⊕         The third corner           0~10         ±0.10         O         0.02           10~20         ±0.12         ©         ≥0.03	sher	rack	after being oiled, and the flexibility should be good;			Silk screen white, antenna black
on	Material Die face treatment		shenzhen heyixun t		uld be good;			antenna b
unit	FPC+3M9471 RF Xuliang	date	technology co.,				shape	lack
mm proportion 1:1 Version REV:A		2024-11-19 drawing zhuzengyuan per meber devise Audit Approved	ltd	Gold plating age Line area	Appearance			



### sample Dimensions Test Report

customer Name	GuangzhouYouw o TechnologyCo., Ltd	customer P/N		Heyixun P/N	HYX008- BO807Z3K-R-V8
Test Date	2024-12-24	samp le Qty.	3	Inspector	Zhu Zengyuan
Dimens ion NO.	standard	samp le 1	samp le 2	samp le 3	pass/NG
1length	15.93mm±0.2mm	15. 92mm	15. 92mm	15. 94mm	Pass
2width	7.99mm±0.2mm	7. 99mm	7. 98mm	7. 98mm	Pass
3thickness	0.2±0.05mm	0. 19mm	0. 21mm	0. 20mm	Pass
	11	Conclusion	1		PASS
Inspector & Date	Zhu Zengyuan	2024-12-24	Approval &Date		1

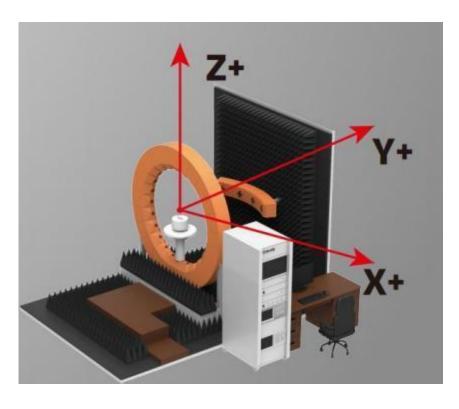


#### **RF** Performance Test Report

customer Name	Guangzhou Youwo Technology Co., Ltd	project Name	BO807Z3K	Heyixun P/N	HYX008- BO807Z3K-R-V8
Band	2400-2500MHZ	Test Date	2024-12-24	Inspector	Zhu Zengyuan

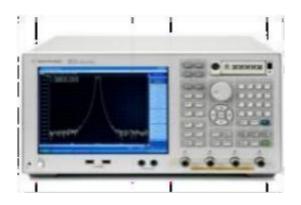
Antenna Test Equipment Introduction

Test of antenna input characteristics using Agilent E5071c andAgilent5071c vector network analyzer ; The radiation pattern of the antenna are tested using the ETS starlab 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



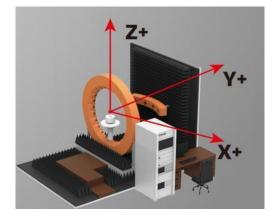


Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test		Agilent 8960 E5515C& Agilent 4438C&CMW500 ETS&SATIMO
		ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	Agilent 5071C

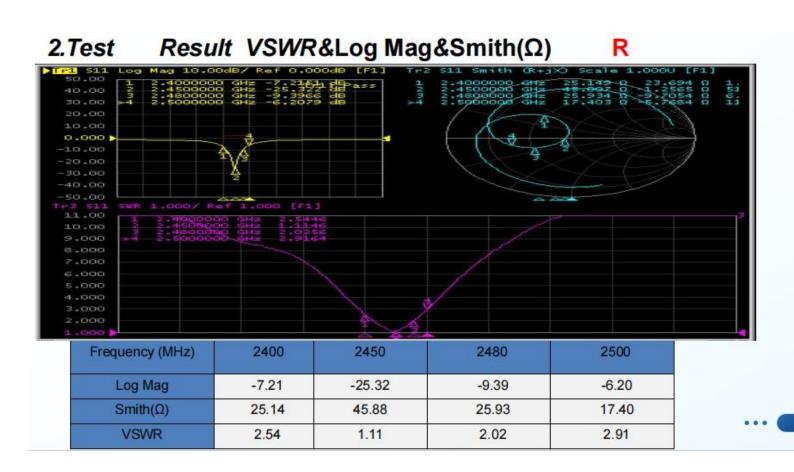










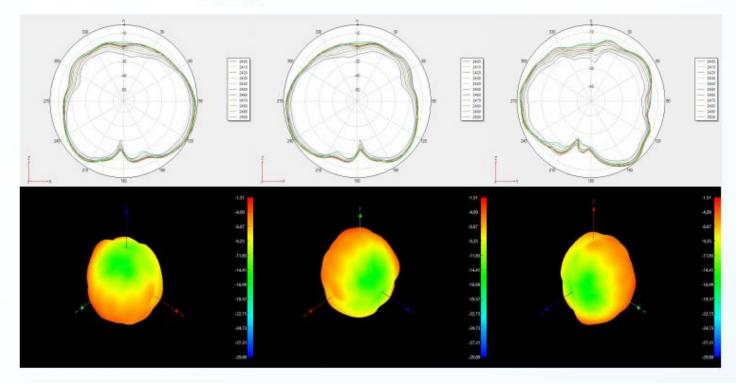




### 3.Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	26.33	-1.25
2410	26.74	-1.58
2420	26.86	-1.47
2430	27.59	-1.31
2440	28.61	-1.51
2450	29.28	-1.60
2460	28.65	-1.48
2470	27.58	-1.29
2480	26.88	-1.37
2490	26.34	-1.22
2500	25.89	-1.49

#### 3.1 2D Pattern-BTANT

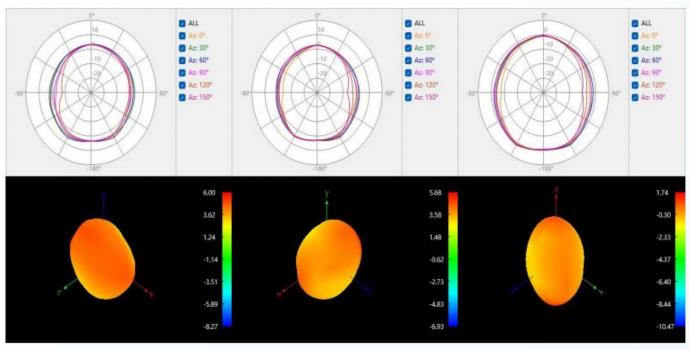




### 3.OTA Data

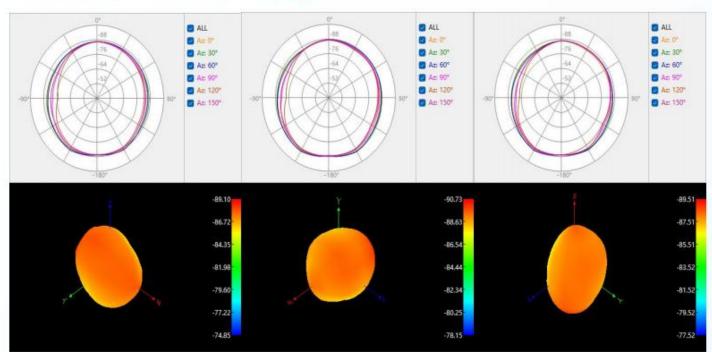
Test Equipment:	: R&S CMW500					
Test Condition:	3D chamber					
Band		Channel	TRP(dBm)	TIS(dBm)		
		0	1.03	-83.49		
	L	39	1.57	-86.48		
ВТ		78	-0.65	-87.23		
	R	0	2.53	-85.64		
		39	2.05	-87.26		
		78	- <u>1.8</u> 1	-86.01		

### 3.1.Test Result R-TRP





#### 3.1.Test Result R-TIS





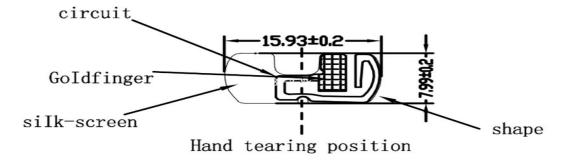
### Reliability Test Report

		I O I I OI	J			
customer <sub>Name</sub>	Guangzhou Youwo Technology Co., Ltd	customer P/N		Heyixun P/N	HYX008-BO	807Z3K-R-V8
Test Date	2024-12-24	samp le Qty.	3	Inspector	Zhu Ze	ngyuan
Test Item	Requireme	testing equipment	samp le 1	samp le 2	samp le 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	ОК	ОК	ОК	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	ОК	ОК	ОК	Pass
High temperature operation	Operates at +60° C for 24 hours	Constant temperature and humidity chamber	ОК	ОК	ОК	Pass
Operates at low temperatures	lt works on power for 24H at -20°C	Constant temperature and humidity chamber	OK	ОК	ОК	Pass
Salt spray test	(5 Shi 0.5)*Sodium chloride, pH value is 6.5 <sup>7</sup> .2, and the temperature of the experimental chamber is (35 ±2)° C ☑24H □48H	Salt spray testing machine	ОК	ОК	ОК	Pass
Connector riveting pull-out force	1.13 Wire size ≥10N 0.81 Wire size ≥8N RG174 ≥60N RG178 ≥50N	Push-pull force gauge	1	1	1	1
		Concl	usion			Pass
Inspector & Zhu Zengyuan 2024-12-24 ate						

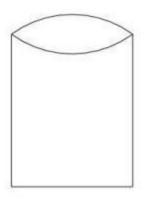


PACK ING CRITERION

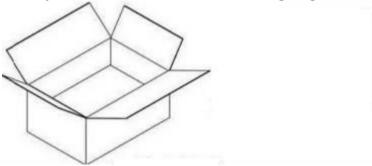
1、Individual products (Subject to the actual packaging)



2、Big PE bag packing (full sheet/single 90pcs) (Subject to the actual packaging)



3、Sealed, the outer box is affixed with our production label and ROHS label. (Subject to the actual packaging)





#### 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	<ul> <li>☑ROHS2.0 COMPLIANT</li> <li>☑Halogen-free</li> <li>☑Meets California 65</li> </ul>	⊠ROHS2.0 COMPLIAN	IT

### Install Wizard or Other

Installation Process:

Take the 1PCS product, tear off the release paper on the back of the FPC by hand, and then align the position of the FPC positioning hole with the positioning hole position of the shell (positioning rib or positioning line), and attach it to the shell flatly, the specific position is shown in the following figure:

Precautions during the installation process:

☑After attaching the antenna, ensure that the FPC is fully attached to the housing;
 ☑The positioning hole is aligned with the positioning post position of the housing;
 ☑The edge of the FPC is against the edge of the case;

 $\Box$ Antenna with TerminalsWhen snapping the terminals to the PCBA end of the motherboard, first snap the terminals and then vertically;

 $\Box$ When disassembling the antenna terminals, it is necessary to use a tool (such as a special crowbar) to the terminals vertically, and do not directly pull the wire to disassemble them.

