

SPECIFICATION FOR APPROVAL

Customer Name	By me				
Customer Project	BS596	Helixun Project Name	BS596		
Customer P/N		Helixun P/N	HLX008-BS596-L-V3		
Band	2400-2500MHz				
Version	A2				
	Designer Information	n			
RF Engineer	Huang Yafei	EE Engineer	Shi Zhenhao		
ME Engineer	Huang Yafei				

Helixun Approval				Customer Appro	val
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Yi YongKang				
Date	2024-1-2				

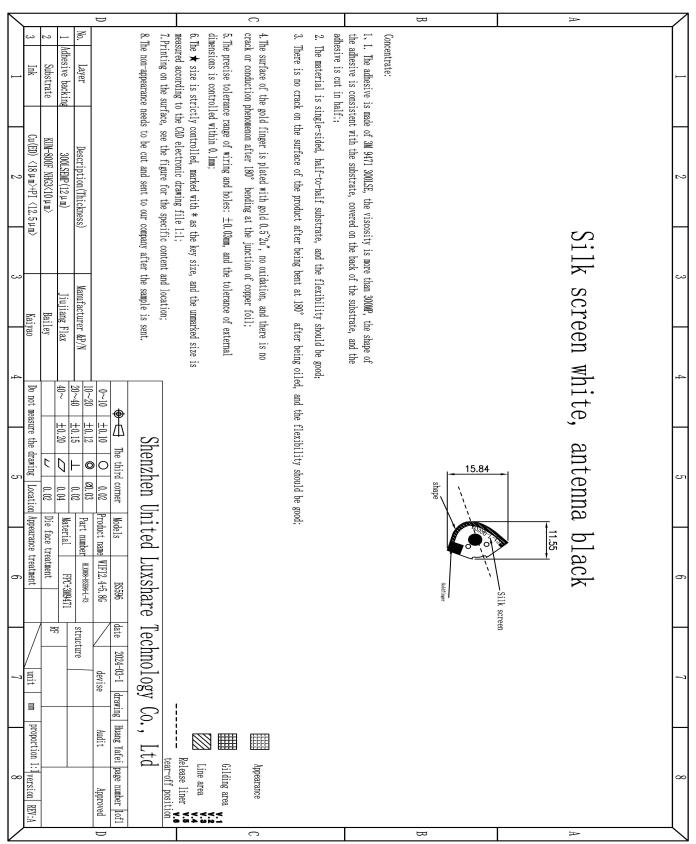
	Change Log						
Version	Change Description	Person in Charge	Approval By	Date			



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Drawing or Product Image





Sample Dimensions Test Report

Customer Name	By me	Customer P/N		Helixun P/N	HLX008-BS596-L- V3
Test Date	2024-1-2	Samp le Qty.	3	Inspector	Yi YongKang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①Length	15.84±0.2mm	15. 80mm	15. 90mm	15.85mm	Pass
②Width	11.55±0.2mm	11. 50mm	11. 60mm	11. 55mm	Pass
③Thickness	0. 2±0. 05mm	0. 21mm	0. 22mm	0. 20mm	Pass
		Conclusion	,		PASS
Inspector & Date	Yi YongKang 2	2024–1–2	Approval &Date		

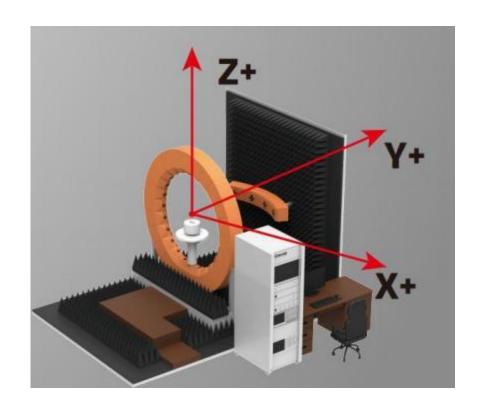


RF Performance Test Report

Customer Name	By me	Project Name	BS596	Helixun P/N	HLX008-BS596- L-V3
Band	2400-2500MHZ	Test Date	2024-1-2	Inspector	Yi YongKang

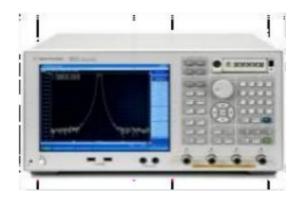
Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071; and Agilent 5071C** 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:



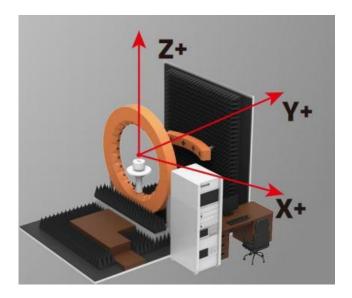


Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5062A
OTA Test	TRP&TIS	Agilent 8960 E5515C& Agilent 4438C&CMW500 ETS&SATIMO
		ETS&SATIMO
Gain & Efficiency	Gain & Efficiency	Agilent 5071C











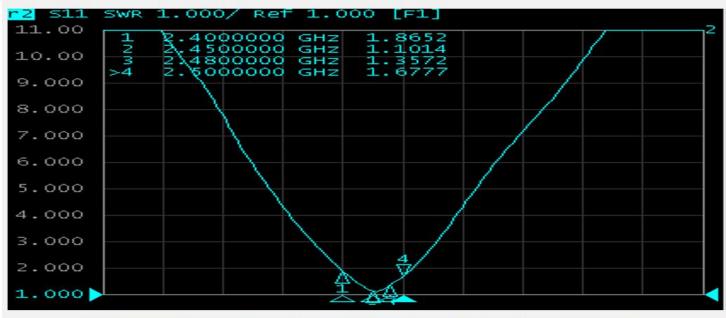




左右耳匹配一样

4

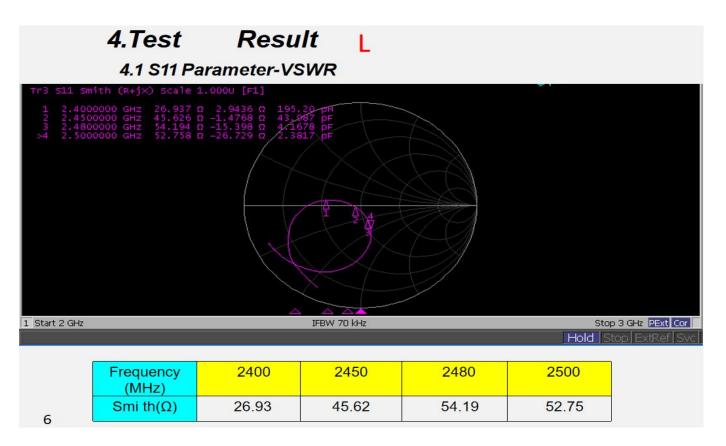
4.Test Result 4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.86	1.10	1.35	1.67









4.Test Result

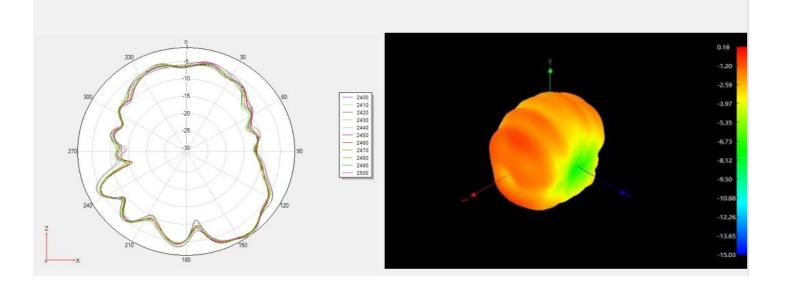
4.2 Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	29.79	0.18
2410	32.66	0.35
2420	34.36	0.09
2430	35.56	0.86
2440	34.33	0.45
2450	34.37	0.70
2460	35.90	1.09
2470	33.93	1.05
2480	34.24	0.71

2400MHZ

4.Test Result

4.3 2D Pattern—BT ANT

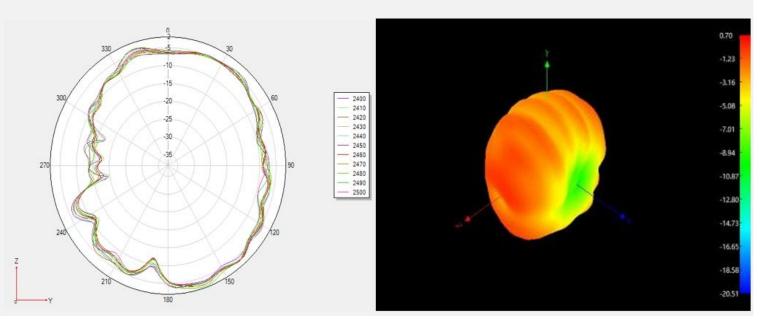




Shenzhen Helixun Technology Co., Ltd 2450MHZ

4.Test Result

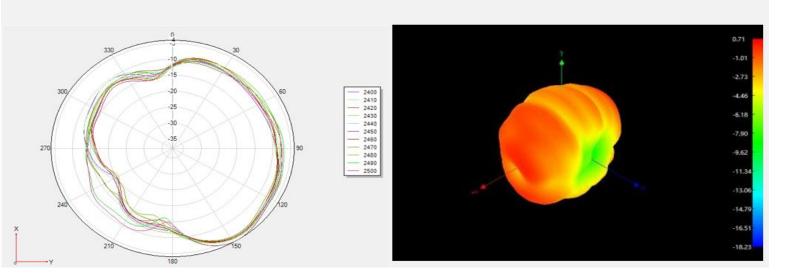
4.3 2D Pattern—BT ANT



2480MHZ

4.Test Result

4.3 2D Pattern—BT ANT



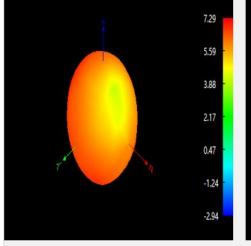


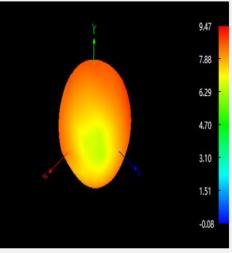
4. OTA Data -L

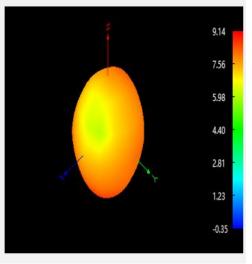
Test Equipment:	R&S CMW500				
Test Condition:	2D chamber				
Band	Channel TRP(dBm) TIS(dBm)				
	0	4.81	-88.62		
BT-L	39	5.01	-89.24		
	78	3.63	-88.78		

4. Test Result

4.4 2D Pattern—BT ANT



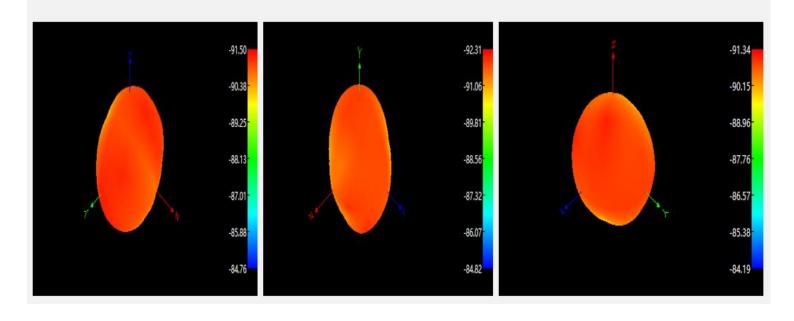






4. Test Result

4.4 2D Pattern—BT ANT





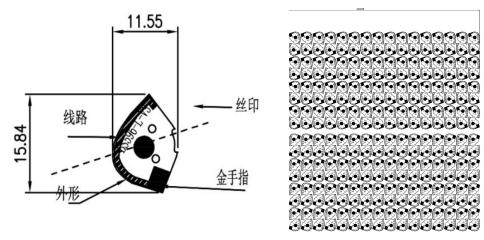
Reliability Test Report

Customer Name	By me	Customer P/N	Tability les	Helixun P/N	HLX008-BS5	96-L-V3
Test Date	2024-1-2	Samp le Qty.	3	Inspector	Yi	YongKang
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
High temperatur e storage	The test was performed after 24H exposure at +85°C and 2H recovery	Constant temperature and humidity box	OK	OK	OK	Pass
Low temperatur e storage	The test was performed after 24H exposure at - 40°C and 2H recovery	Constant temperature and humidity box	OK	OK	ОК	Pass
High- temperatur e operation	24H power operation at +60°C	Constant temperature and humidity box	ОК	OK	ОК	Pass
_ow emperature operation		Constant temperature and humidity box	ОК	ОК	ОК	Pass
Salt spray test	pri value of 0.0 1.2,	Salt spray tester	ОК	OK	OK	Pass
Connector rivet and pull force	0 01 W: d:	Push-pull gauge				
		Concl	usion			Pass
Inspector & Date	Yi YongKang 202	24-1-2	Approval &D ate			

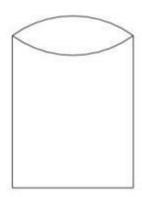


PACKING CRITERION

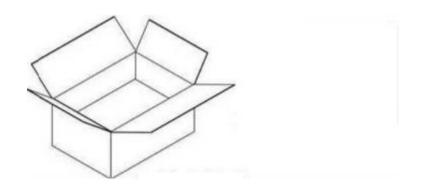
1, Individual product (subject to actual packaging)



2. Large PE bag packaging (full plate/single 90pcs) (subject to actual packaging)



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





Environmental requirements

Material safety data sheet	√furnish	□Not provide for	□ N/A
Environmental protection agreement	☑furnish	□Not provide for	□ N/A
Yunshi technical standard for environmental hazardous substances	☑furnish	□Not provide for	□ N/A
Specific environmental requirements	✓ Conform toROHS2. 0✓ Conforms to halog✓ California-compli		

Install Wizard or Other

Installation process:

Take 1PCS of products, tear off the release paper on the back of the FPC by hand, then align the positioning hole of the FPC with the positioning hole of the shell (positioning rib or positioning line), and smoothly attach to the shell, as shown in the figure below:

Precautions during installation:
lacktriangle After attaching the antenna, ensure that the FPC is fully attached to the
housing;
☑The positioning hole is aligned with the positioning column of the housing;
☑The FPC edge is aligned with the shell edge
■When connecting an antenna with terminals to the PCBA end of the mainboard, connect the terminals first and then vertically.
☐When removing antenna terminals, use a tool (such as a dedicated crowbar) to lift the terminals vertically. Do not pull the cables to remove them.