

Acknowledgment Letter

SPECIFICATION FOR APPROVAL

Customer Name	Shiyutong						
Customer Project Name	HT99-LRF Project Name HT99-LRF						
Customer P/N		SDC P/N WF4584B-B45R-A					
Band	WIF12. 4G						
Version	A0						
	Designer Information						
RF Engineer	Fu Xuerong	R&D Diretor	Xia Chenglei				
ME Engineer	Huang Zongbao						

	Appr	ustomer	Approval		
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Huang Zongbao	Fu Xuerong	Xia Chenglei		
Date	2023. 5. 26	2023. 5. 26	2023. 5. 26		

hange Log					
Version	Change Description	Person in Charge	Approval By	Date	

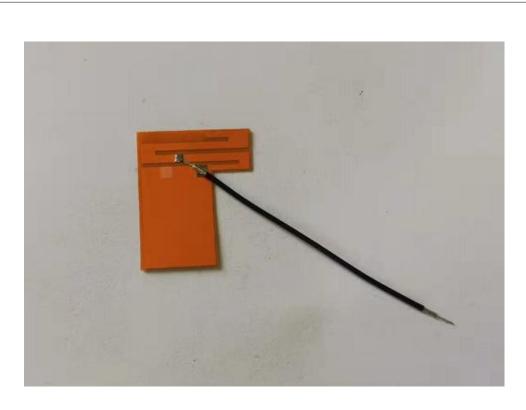


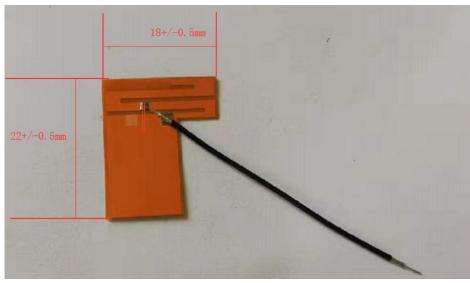
Catalogue

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Drawing or Product Image





Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen TEL:0755-27211658 FAX:0755-29485750



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Research and development of Shenzhen Ruifeng Electronic Technology Co., LTD

Sample Dimensions Test Report

Test Date 2023. 5. 26 3 Xu Yanfang Sample Qty. Inspector Dimension No. Standard Sample 1 Sample 2 Sample 3 Pass/NG 1 length 18.8 18.8 \pm 0.2mm 18.9 18.8 **Pass** ②width 14.62 14. $52\pm0.2 mm$ 14.52 14.52 **Pass** 3 0.1 ± 0.03 mm 0.1 0.1 0.1 **Pass** thickness 4Line length 45 ± 2 mm 45 46 46 **Pass** (5)

Inspector & Date	Xu Yanfang 2023 . 5 . 26	Approval &D ate	

PASS

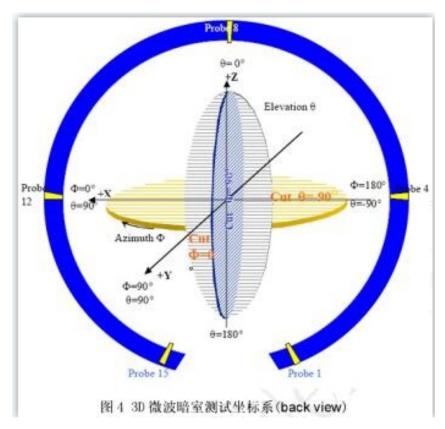
Conclusion



RF Performance Test Report

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 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:



1. S11 Parameter-VSWR

Measuring Method $\,$ is a 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



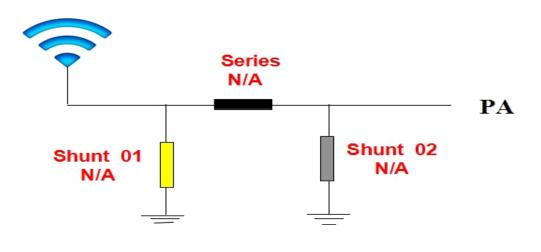
S11 Parameter-VSWR

frequency (MHZ)	2400	2450	2500
standing-wave ratio	1.62	1. 41	1. 62



2. Antenna Matching Network

Antenna

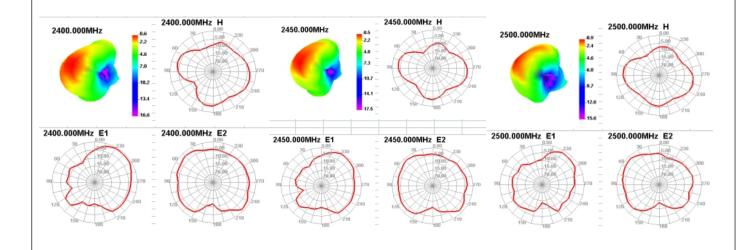


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3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	31.74	-0.59
2450	29.65	-0.51
2500	28. 15	-0. 93





Reliabi	lity	Test	Report
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Test Date	te 2023.5.26 Sample Qty. 3 Inspector Xu Ya		Xu Ya	anfang		
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
high temperature storage	Expose to+85 °C for 24 hours, recover for 2 hours, and conduct testing	Constant temperature and humidity box	ОК	ок	ОК	Pass
low temperature storage	Expose to -40 ° C for 24 hours, recover for 2 hours, and perform testing	Constant temperature and humidity box	ОК	ок	ок	Pass
High temperature operation	Powered on for 24 hours at+60 °C	Constant temperature and humidity box	ок	ок	ок	Pass
Low temperature operation	Powered on for 24 hours at -20 °C	Constant temperature and humidity box	ок	ок	ок	Pass
Salt spray test	(5 ± 0. 5)%sodium chloride, pHValue is6.5~7.2, Temperature of experimental chamber (35±2)°C □24H ☑48H	Salt spray testing machine	ОК	ок	ОК	Pass
Connector riveting and pulling force	1.13Wire diameter≥ 10N 0.81Wire diameter≥ 8N RG174≥60N RG178≥50N	Push-pull force gauge	≥10N	≥10N	≥10N	Pass
		Conclus	ion			Pass
Inspector &	Xu Yanfang 2023.5	. 26	Approval &D			

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Product ROHS Composition Declaration Form

produc		Unifo	nifo Harmful substance content(PPM)						Date of HS test
t name		mater ial	Pb	Cd	Hg	Cr	Br	HS test report number	report
			ND	ND	ND	ND	ND		
	FPC	EPC	ND	ND	ND	ND	ND		
			ND	ND	ND	ND	ND		
WIFI			ND	ND	ND	ND	ND		
			ND	ND	ND	ND	ND	UNIB21042707HR-01	2023. 5. 26
anten na		wire	ND	ND	ND	ND	ND		
II.a			ND	ND	ND	ND	ND		
		rod	ND	ND	ND	ND	ND		
		termin	ND	ND	ND	ND	ND		

Install Wizard or Other

setup script:

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

in	the following figure:
	Installation process precautions:
	☐ Ensure that the FPC is fully attached to the housing after pasting the antenna;
	□Align the positioning hole with the position of the casing positioning column;
	□Align FPC edge with shell edge;
	□When attaching the terminal to the PCBA end of the motherboard, please first align
the	e terminals and then snap them vertically;
	When disassembling antenna terminals, it is necessary to use a tool (such as a special
	pry bar) to vertically lift the terminals and not directly pull
	the wires for disassembly