Shenzhen QiBing Technology Co.,Ltd

5A, 5th Floor, Building B Anfeng Industrial District, Lianrun Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen City, China.

Antenna Specification for Approval

NO. QBAC20220210001

Customer Name:	LangTong
Product Name:	WIFI Antenna
Product descriptinon:	PCB, D=1.13mm Black Cable Type, L=100mm, IPEX1
Part NO.:	WF38B. C113. 100B. 1
Customer NO.:	W1 00B, 0110, 100B, 1
Version number:	V1 O
	V1. 0
Issued Date:	2022-2-10

QIBING				
R&D Dept				
Business Dept				
Approved By				

CUSTOMER					
R&D Dept					
Business Dept					
Approved By					

• Specification Summary

A. Electrical Characteristics					
Frequency	2400MHz ~2500MHz				
LogMag	<-10				
Efficiency	>50%				
Peak Gain	2.37dbi				
Impedance	50 Ω				
Polarization	Line				
B. Mate	erial & Mechanical Characteristics				
Material of Radiator	PCB/CU				
Cable Type	1.13mm Black				
Connector Type	IPEX I				
Dimension	At Attachment				
C.	Environmental Characteristic				
Storage Temperature	- 30 °C ~ + 85 °C				
Heat-durability	280±5°C, 10sec.				
Weld Temperature	320±5°C 2-3sec.				

• Test Equipment & Conditions

1. Network Analyzers:

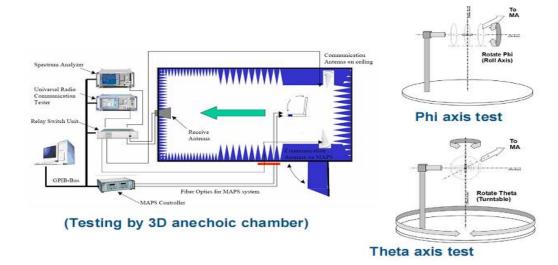
Agilent 8753D

5071B

Communications Test Set:

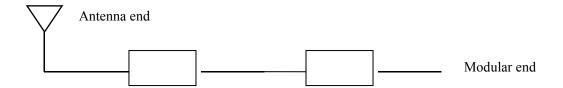
Agilent E5515C CMW500

2. 3D Chamber Test System

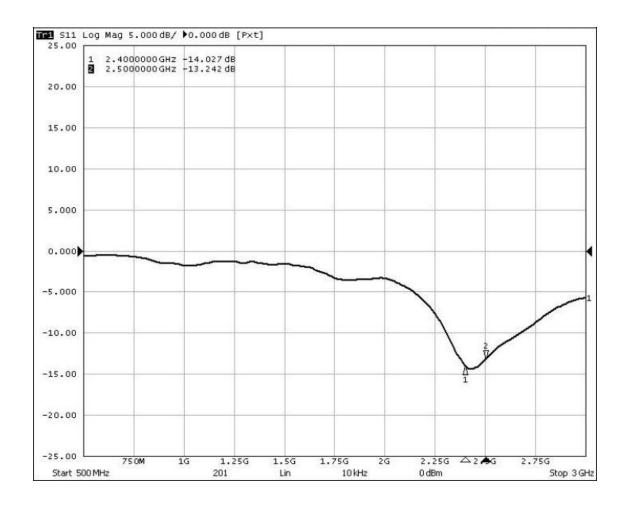




• Matching Cricuit



• Return Loss



◆ 2.4G Gain

2300.00MHz - 2500.00MHz Gain

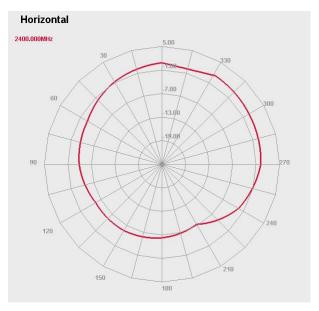


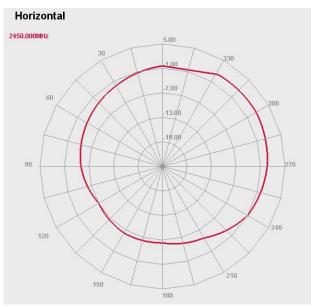
◆ 2.4G Efficiency

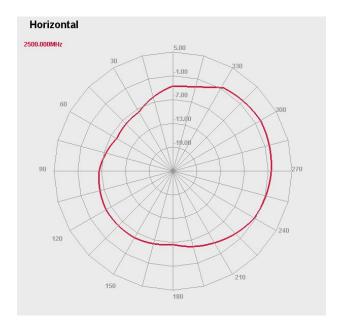
2300.00MHz - 2500.00MHz Efficiency



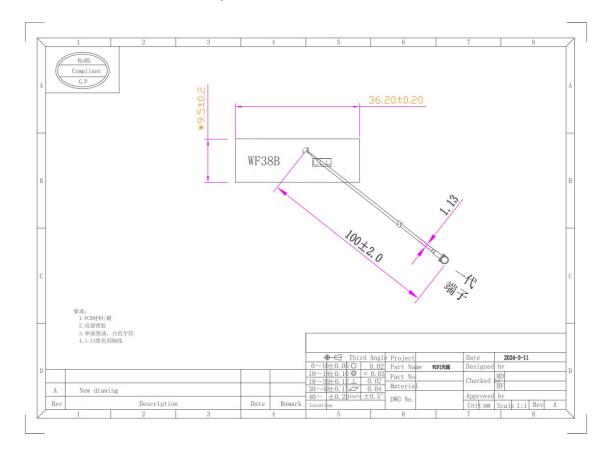
Passive Test For 2.4-2.5G											
Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain(dBi)	1.65	2.05	2.09	2.09	1.91	1.95	2.19	2.1	2.18	2. 21	2.37
Effi(%)	58	61.8	61.9	63.26	62.84	59.96	60.06	56.73	56.5	54.49	54



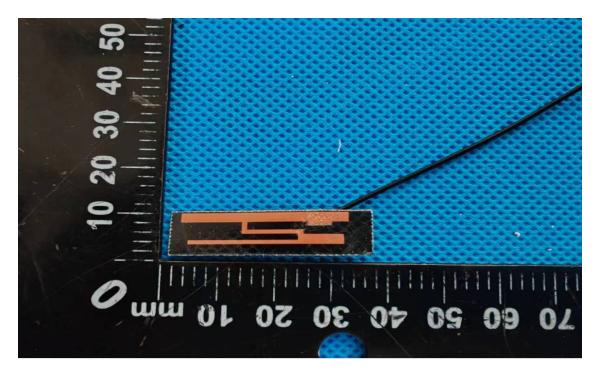




• Antenna Size:



• Antenna Picture:



• Reliability Test

Test	Item	Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	and humidity is 65% for one hour, then	Temp.&Humi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25°C, test antenna after 2 hours.		No material deformation is allowed. Electronic Performance is ok .	PASS
3	Salt-Spray 6 pray Test	test condition , Temp: $35\pm2^{\circ}$ C Humidity: 85%	Salt-Spray Tester	No color change No appear rusting	PASS