ShenZhen WIIink Technology Co.,Ltd SPECIFICATION FOR APPROVED

PRODUCTS:	FPC Antenna	
PART NO:	C001-R-V6	
Data:	2023. 12. 01	

SUPPLIER		
CHECKED BY	APPROVED BY	

CUSTOMER		
ACCEPTED BY	CHECKED BY	APPROVED BY

REMARK:Please send us one(or copy) of this approval with stamp after accepting, other copies filed by the customer.

1. Project Information

1.1. Appearance and Dimensions

Test point	Specifications	Test result
Overall dimensions	7mm*18.2mm (±0.2mm)	OK
Golden finger		OK
Drawing	7±0,2mm 7±0,2mm 2,8±0,2mm 18,2±0	

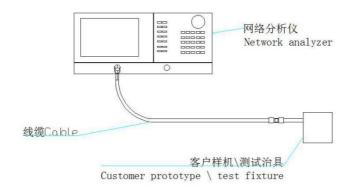
	Inspection results	
Material specification	25um copper+12.5um glue+12.5umPI	OK
Material	Half and half (Electrolytic copper)	OK
Material	gummed paper (3M300LSE)	OK
Electroplate	Gold plating	OK
Appearance	Surface: matte black	OK

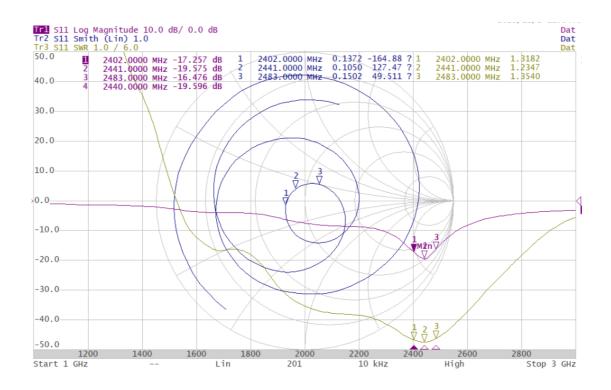
2. Electrical Characteristics

2.1. Test Environment Conditions

Temperature	Ordinary Temperature (5 to 35℃)
Humidity	Ordinary Humidity (25 to 85% RH)

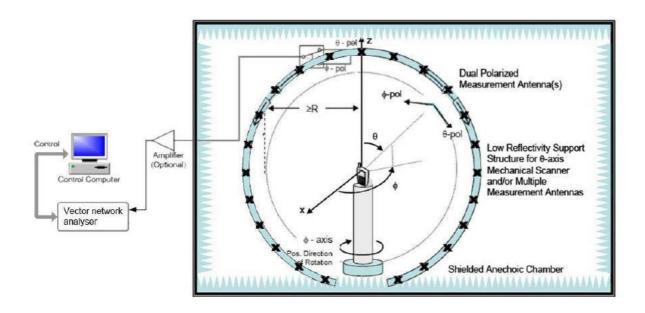
2.2. Measurement method





2.3. Efficiency and Gain

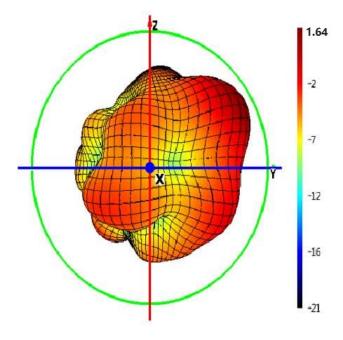
2.3.1. Test system



2.3.2. No-source test data

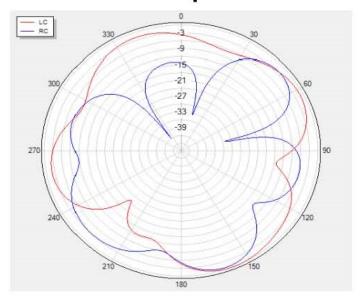
R边-Gain&Efficiency 增益、效率			
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率
2400	1.15	-4.53	35.66%
2410	1.22	-4.21	36.95%
2420	1.53	-3.9	38.67%
2430	1.61	-3.87	38.06%
2440	1.42	-3.96	37.22%
2450	1.64	-3.84	38.33%
2460	1.3	-4.01	36.72%
2470	1.2	-3.98	36.99%
2480	1.14	-4.26	35.14%
2490	1.04	-4.54	33.81%
2500	0.96	-4.61	30.80%

2.3.3. 3D Radiation Drawing



2.3.4. directional drawing of horizontal plane

Theta=90 freq=2400MHz



ANTENNA SPECIFICATION

4. Reliability test

Item	Test methods and conditions	Specifications and requirements
Storage	Temperature, humidity and air	
conditions	pressure are as follows:	
	1、Temperature:-30℃~+80℃	
	2. Air pressure: 45%-85%	
	3、Pressure :86Kpa-106Kpa	
	salinity is in range of 5%	
Salt spray test	;PH6.5-7.2;Temperature 35	
	±1°C;Corrosion time 16H.	There is no change in appearance, and all antenna
Vibration test	10-2000-10HZ amplitude 1.52mm Ten times along the X,Y,Z direction	parameters are consistent with those of previous tests
Drop Test	Drop from 1m onto the board	
Pull test	Bearing capacity ≧4N	
Constant	humidity : 40°C±2°C,90-95%RH	
temperature and humidity	Duration: 4H recovery time: 1-2H	
High and low	70°C -20°C 5 cycles , Under	1
temperature test	normal conditions 1-2H	