## ShenZhen Wllink Technology Co.,Ltd SPECIFICATION FOR APPROVED

SUPPLIER		
PREPARED BY	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	3±0,2mm 18.2±0.2mm 4.2±0,2mm	

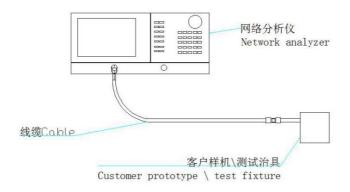
Inspection items		Inspection results
Material specification	25um copper+12.5um glue+12.5umPI	OK
Material	Half and half (Electrolytic copper)	OK
Material	gummed paper (3M300LSE)	OK
Electroplate	Gold plating	OK
Appearance	Surface: matte black	OK

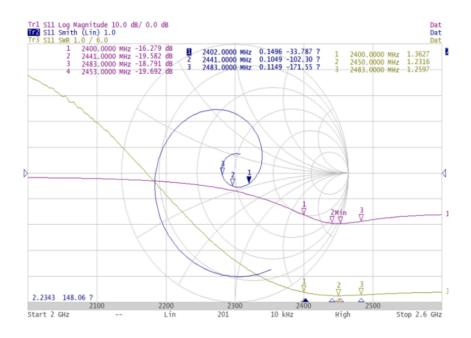
# 2. Electrical Characteristics

### 2.1. Test Environment Conditions

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

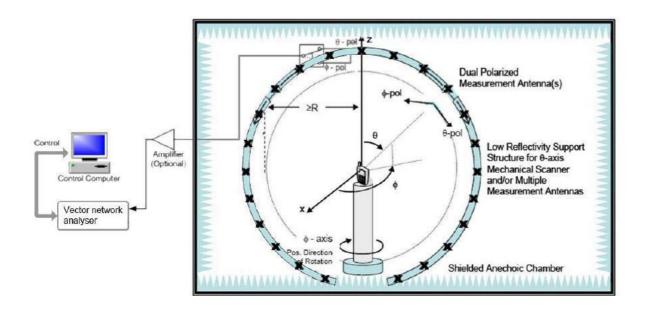
### 2.2. Measurement method





## 2.3. Efficiency and Gain

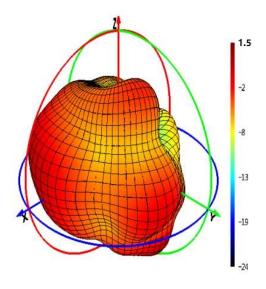
## 2.3.1. Test system



#### 2.3.2. No-source test data

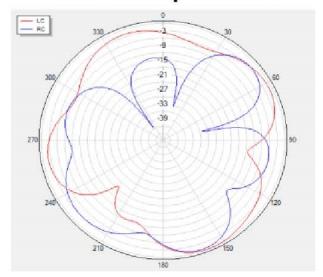
L边-Gain&Efficiency 增益和效率			
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率
2400	1.01	-4.46	32.13%
2410	1.23	-4.29	33.88%
2420	1.38	-4.17	34.09%
2430	1.42	-3.98	35.90%
2440	1.50	-3.62	36.64%
2450	1.46	-3.81	34.82%
2460	1.37	-4.06	32.05%
2470	1.32	-4.21	31.91%
2480	1.33	-4.32	30.98%
2490	1.28	-4.24	30.35%
2500	0.91	-4.34	29.84%

2.3.3. 3D Radiation Drawing



2.3.4. directional drawing of horizontal plane





# 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 <b>≧4N</b>	
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	