



Shenzhen Lejin radio frequency technology Co., LTD

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SPECIFICATIONS FOR APPROVAL

Customer Name:	品网 (Pinnet)
Product Name:	WIFI 2.4G+5G/BT
Product Model:	M629A WIFI ANT
Part Number:	LJF02-221203001-R0A
Write By :	李明进
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Note: For the Antenna Size, please refer to the operation description.

Electrical Characteristics

Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<1.5	>50%	50 Ohm	Linear	≥ 0 DB
5100MHz--5900 MHz	<2.0	>50%	50 Ohm	Linear	≥ 0 DB

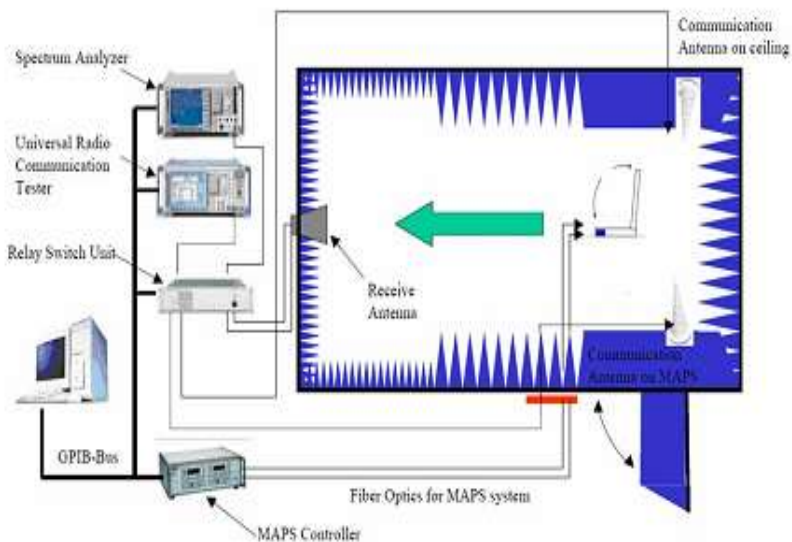
Material & Mechanical Characteristics

Environmental

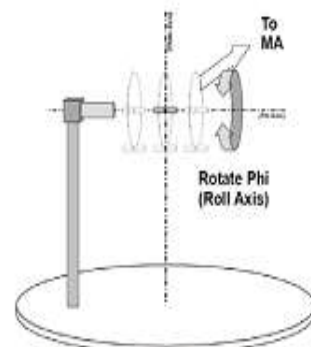
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
LJWF25D	113B	KCC1B1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

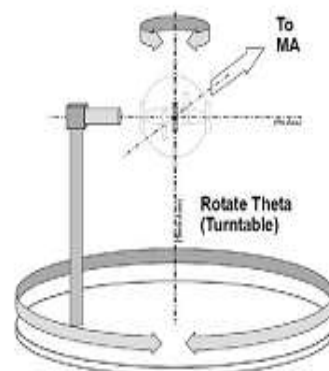
1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)



(Testing by 3D anechoic chamber)

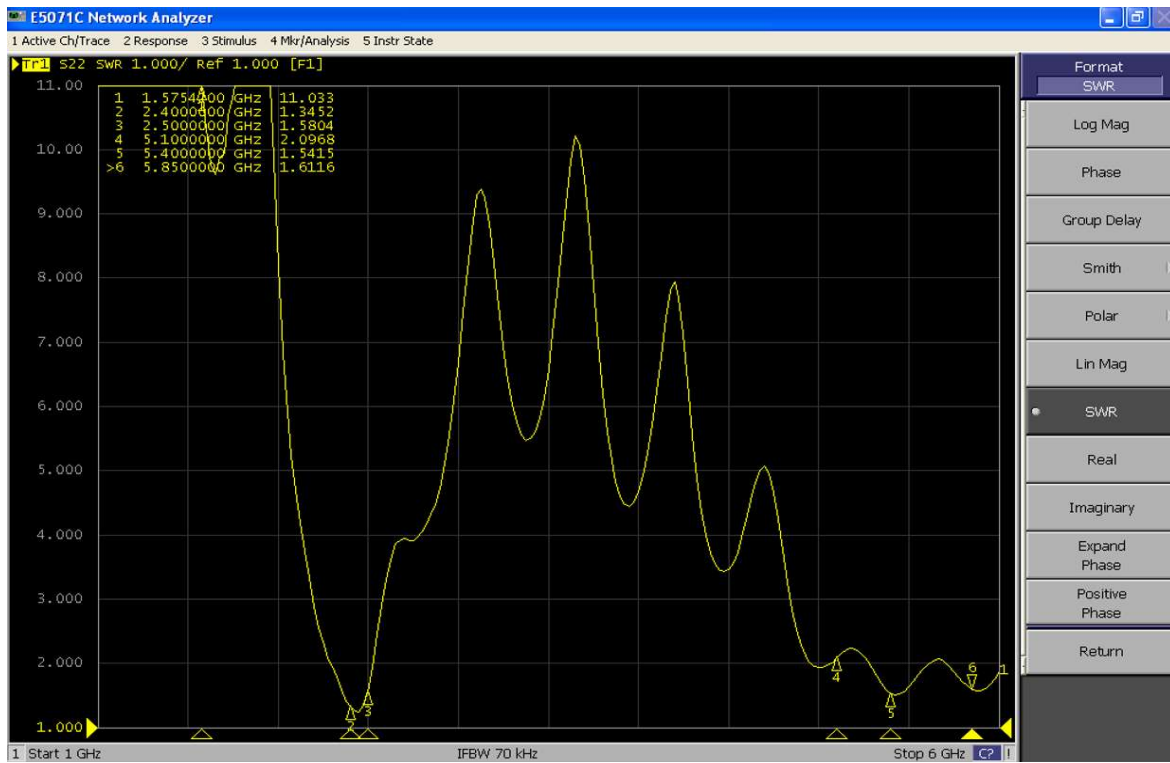


Phi axis test



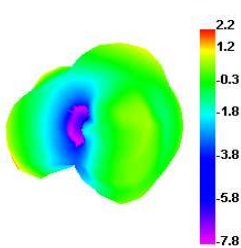
Theta axis test

Antenna Impedance: WIFI ANT M:

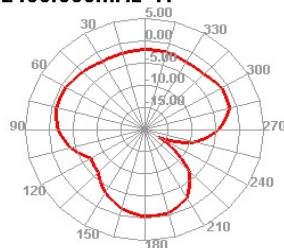


2.4G (Wifi/BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANT M
	Effi (%)	56.45	58.1	59.06	52.77	56.96	50.49	55.56	52.77	51.59	59.51	
	Gain (dBi)	2.15	2.33	2.63	2.17	2.31	2.59	2.23	2.17	2.47	3.2	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	54.73	58.14	53.96	63.04	55.26	54.73	54.48	51.55	53.15	66.42	
	Gain (dBi)	0.47	1.8	1.81	1.86	1.89	1.47	0.71	1.48	1.51	3.27	

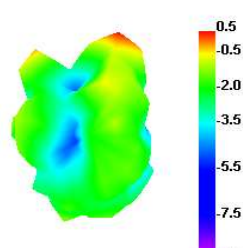
2400.000MHz



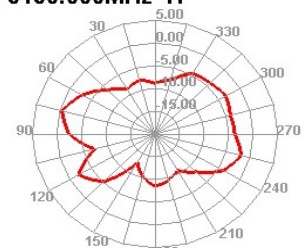
2400.000MHz H



5150.000MHz



5150.000MHz H



OTD_DATA:(以下OTD_DATA是在本规格书中的天线按规格书要求装配所测试得来,更换天线或更改天线的安装方式,以下OTD_DATA将会失效, 测试时需关掉BT 同时系统设置模块到不休眠状态,背光50%, 原机附带的电源变压器)

OTD_DATA:(The following OTD_DATA is obtained by assembling the antenna in this specification according to the requirements of the specification. If the antenna is replaced or the installation method of the antenna is changed, the following OTD_DATA will fail. BT should be turned off during the test, and the system module should be set to the non-hibernation state with 50% backlight and the power transformer attached to the original machine.)

2.4G WIFI	802.11.B @11Mbit ACK	CH	TRP(d Bm)	TIS(dB m)
		1 (2412MHz)	15.1	-84.1
		6 (2437MHz)	15.95	-85.2
		11 (2462MHz)	16.5	-86.5

5G WIFI	802.11 A 54MBIT	CH	TRP(dB m)	TIS(dB m)
		36 (5180MHz)	14.33	-73.58
		60 (5300MHz)	14.37	-73.84
		161 (5805MHz)	12.98	-70.2