



Shenzhen Lejin radio frequency technology Co., LTD

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SPECIFICATIONS FOR APPROVAL

Customer Name: ShiYe

Product Name: WIFI 2.4G/5G Antenna

Product Model: ANT-VIM-01

Part Number: LJF01-19051001C-R0A

Write By : Qiang Fu

Issued Date: 2019-05-10

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

LEJIN

R & D DEPT	ENGINEER R&D DEPT	APPROVAL
Qiang Fu		

Catalogue



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Product Specificatio

A. Electrical Characteristics	
Frequency	2400 MHz ~2500 MHz 5150 MHz ~5850 MHz
VSWR	<2
Efficiency1	>30%@2400 MHz ~2500 MHz
Efficiency2	>30%@5150 MHz ~5850 MHz
Impedance	50 Ohm
Polarization	Linear
B. Material & Mechanical Characteristics	
Material of Radiator	FPC black
Cable Type	Ø 1.13mm black
Connector Type	IPX-1
Dimension	
C. Environmental	
Operation Temperature	- 30 °C ~ + 80 °C
Storage Temperature	- 30 °C ~ + 85 °C

1		2		3		6		7		8	
Rohs Compliant G.P											
ANT-V-A01 11.5mm 38.0mm											
1.13 45.0+/-1.0											
Change record 1 2 3											
SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD Third Angle 0~10 ±0.05 0.02 10~18 ±0.10 20.03 18~30 ±0.12 0.02 30~10 ±0.15 0.01 40~ ±0.20 10.5° Project Part Name Part No. Material Treatment SY-V-A01 RFI-001天線 RFI-001天線-001 Date 2019-05-10 Designed by MD Checked by RF Approved by Unit mm Scale 1:1 Rev A											
Rev A Description Date Remark											
Rev A New drawing											
Rev 1 1 2 3											



Test Equipment & Conditions

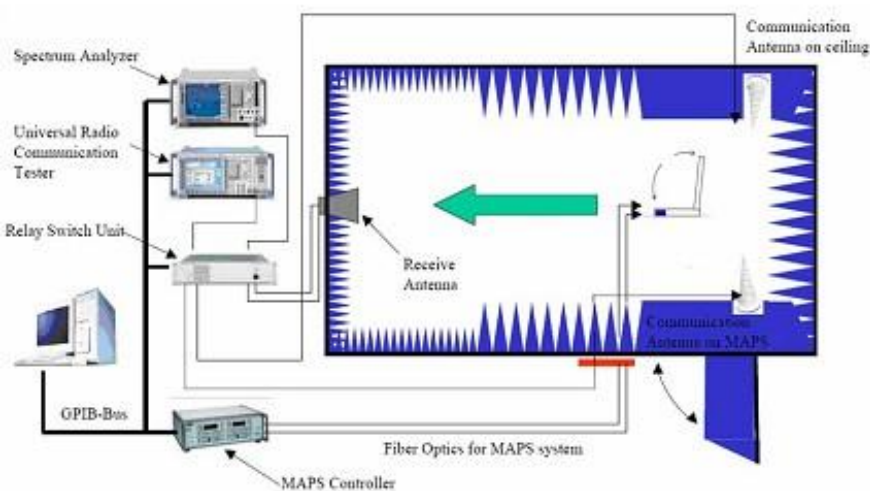
1. Network Analyzers :

Agilent 8753D 5071C

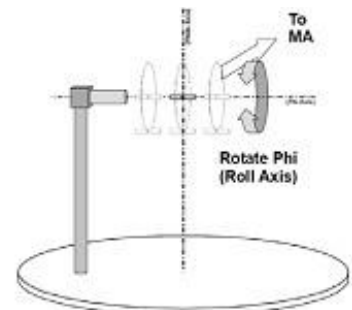
2. Communications Test Set:

Agilent E5515C/CMW500

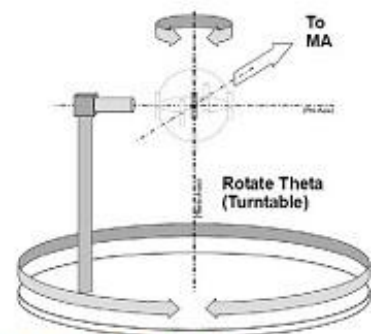
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test



S11_VSWR:A-01





Passive Test For WIFI2G		
Freq (MHz)	Effi (%)	Gain (dBi)
2410	33.71	0.82
2420	41.04	1.79
2430	38.12	1.56
2440	46.01	2.47
2450	35.82	1.55
2460	36.99	1.77
2470	33.3	1.48
2480	40.63	2.38
2490	36.17	1.87
2500	36.63	1.91
2510	30.25	0.93

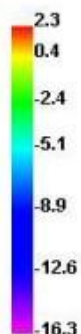
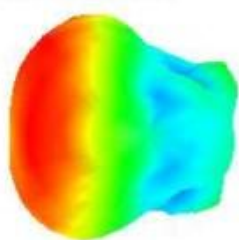
Passive Test For WIFI5G		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	20.66	1.05
5200	28.81	1.71
5250	23.01	1.23
5300	25.66	1
5350	24.57	2.56
5400	34.59	2.35
5450	36.63	2.78
5500	40.53	3.05
5550	43.78	3.66
5600	44.41	3.65
5650	48.03	3.95



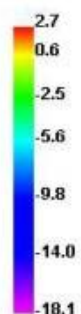
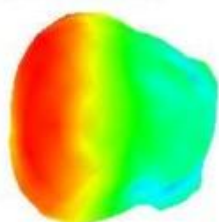
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5700	53.51	3.67
5750	61.59	3.28
5800	55.26	3.93
5850	59.01	3.4
5900	56.04	3.1
5950	45.76	4.37
6000	53.54	3.23

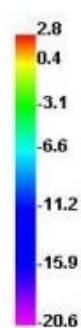
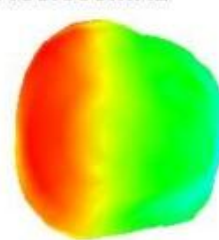
2410.000MHz



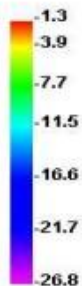
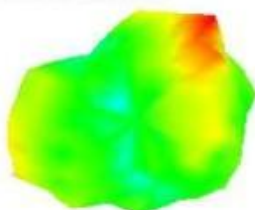
2450.000MHz



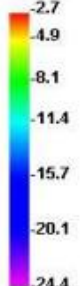
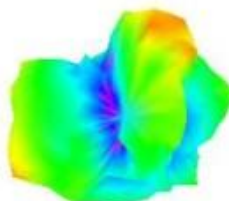
2480.000MHz



5150.000MHz



5350.000MHz



5850.000MHz

