



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

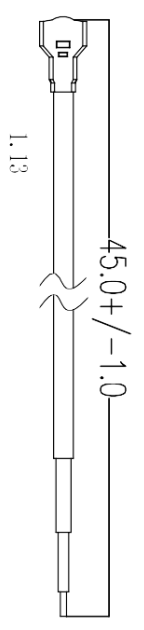
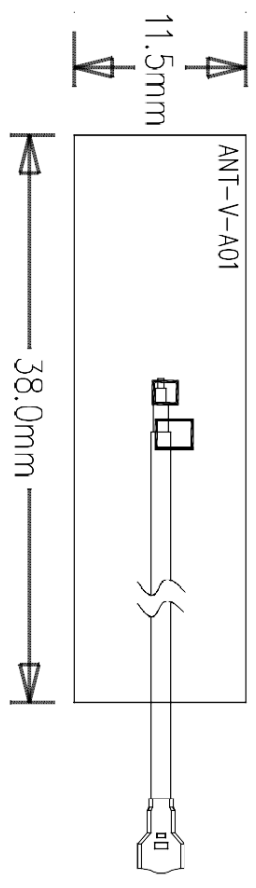
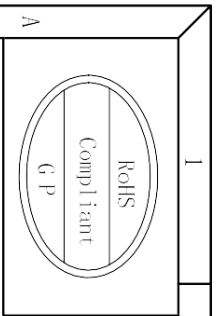


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# Product Specificatio

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



Change record	
1	
2	
3	



SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

0~10	±0.05	Third Angle	Project	SH VIB ANT	Date	2019-05-10				
10~18	±0.10	◎	Part Name	RFI 40V天线	Designed by					
18~30	±0.12	⊥	Part No.		Checked by	MD				
30~10	±0.15	∇	Material		RF					
10~	±0.20	Angle	Treatment		Approved by					
			Location		Unit	mm	Scale	F11	Rev	A

Rev	Description	Date	Remark
A	New drawing		
1			

1	2	3	6	7	8
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## Test Equipment & Conditions

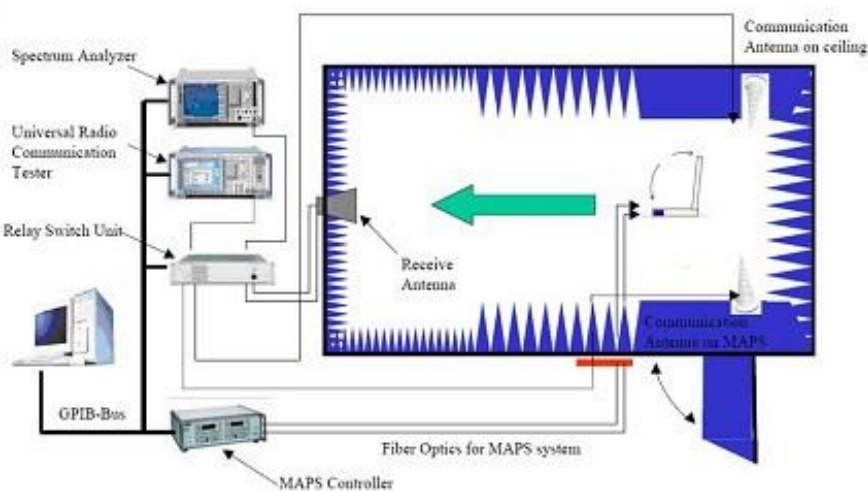
### 1. Network Analyzers :

Agilent 8753D 5071C

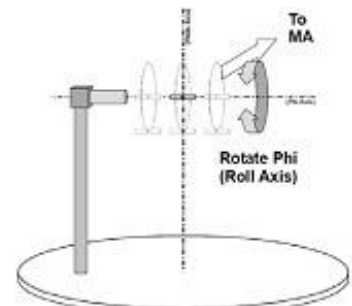
### 2. Communications Test Set:

Agilent E5515C/CMW500

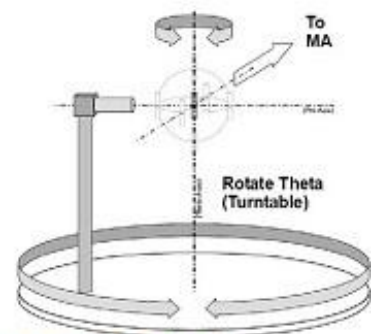
### 3. 3D Chamber Test System



(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

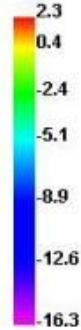
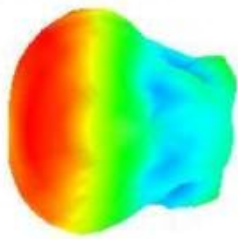
Passive Test For WIFI5G		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	20.66	1.05
5200	28.81	1.71
5250	23.01	1.23
5300	25.66	1
5350	24.57	2.56
5400	34.59	2.35
5450	36.63	2.78
5500	40.53	3.05
5550	43.78	3.66
5600	44.41	3.65
5650	48.03	3.95



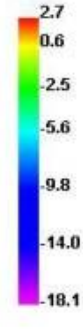
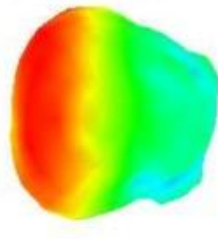
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5700	53.51	3.67
5750	61.59	3.28
5800	55.26	3.93
5850	59.01	3.4
5900	56.04	3.1
5950	45.76	4.37
6000	53.54	3.23

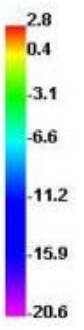
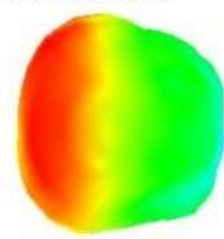
2410.000MHz



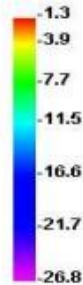
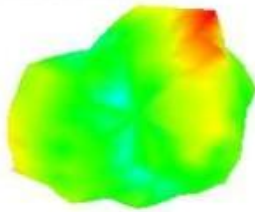
2450.000MHz



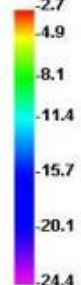
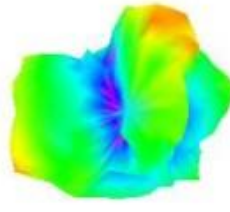
2480.000MHz



5150.000MHz



5350.000MHz



5850.000MHz

