



**SPECIFICATIONS FOR APPROVAL**

Antenna manufacturer: Shenzhen Lejin radio frequency technology Co., LTD

Company Address: 3rd Floor, Building A4, No. 176 Chongqing Road, Fuhai Street, Bao'an District, Shenzhen, Guangdong Province

**Customer Name:** 吉祥星

**Product Name:** R1568 (AX101)WIFI MAIN ANT

**Product Model:**

**Part Number:** LJF02-24031808B-R0A

**Write By :** Star Li

**Issued Date:** 2024/3/21

**CUSTOMER**

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE	Edition/Part number

**LEJIN**

R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE	Edition/Part number

ECN/ECR			

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## Test Equipment & Conditions

1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)/Satimo(433)





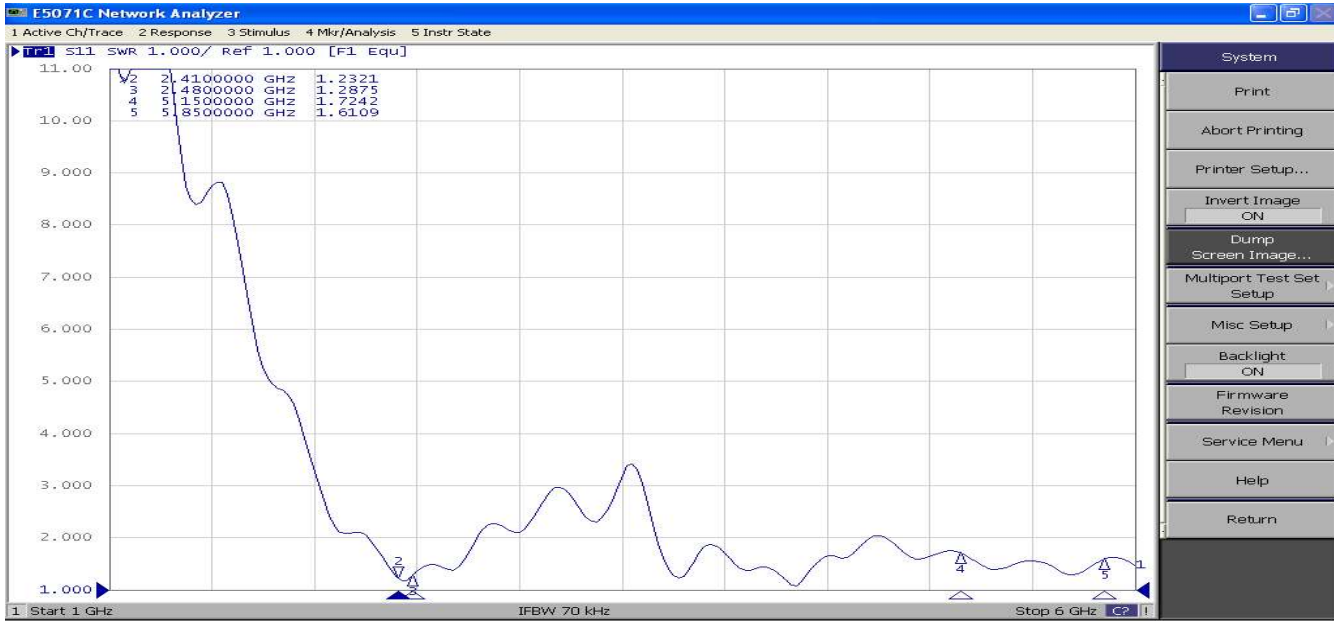
共用 (LJF02-230421001-A-ROA)

Ant. Type	Frequency (MHz)	VSW R	Efficiency	Impedance (Ohm)	Polarization	Gain (Peak gain with cable loss)(dBi)	Cable Loss(dB )
Dipole	2400 ~2500	<2	>50%	50	Linear	1.44	0.25
	5100 -5900	<2.5	>40%	50	Linear	1.26	0.37
Cable Type	Cable Length (mm)	Connector Type	Operation Temperature		Storage Temperature		
SY113/50-001-B	495mm	Cocentra ANC01131-451	- 20 °C ~ + 70 °C		- 30 °C ~ + 80 °C		

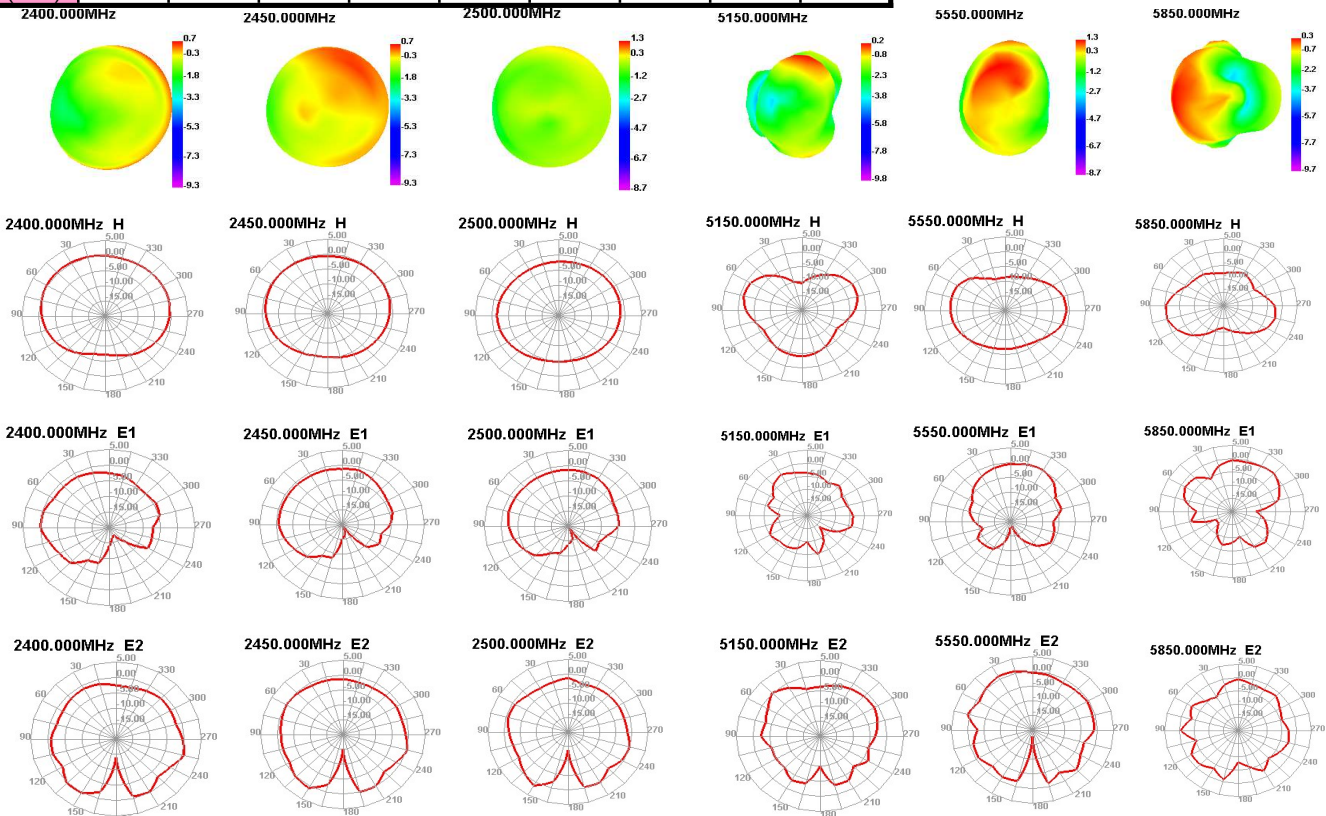
WiFi Antenna Performance Table

Band TRP /TIS(dBm)		<a href="#">11.42</a>	<a href="#">-81.41</a>	Band TRP /TIS(dBm)		<a href="#">10.30</a>	<a href="#">-68.93</a>	Band TRP /TIS(dBm)		<a href="#">11.64</a>	<a href="#">-70.59</a>	Band TRP /TIS(dBm)		<a href="#">11.08</a>	<a href="#">-68.70</a>		
802.11B	Channel No.	TRP (dBm)	TIS (dBm)	802.11G	Channel No.	TRP (dBm)	TIS (dBm)	802.11A	Channel No.	TRP (dBm)	TIS (dBm)	802.11AC	Channel No.	TRP (dBm)	TIS (dBm)		
Tx_11M / Rx_11M	1	11.97	-81.19	Tx_6M / Rx_54M	1	10.57	-68.47	Tx_54M / Rx_54M	36	11.43	-70.49	Tx_MCS7 / Rx_MCS7	36	10.93	-68.27		
	6	11.28	-82.21		6	10.22	-69.45		149	11.67	-69.89		149	10.96	-68.68		
	11	11.01	-80.83		11	10.12	-68.87		165	11.83	-71.40		161	11.34	-69.15		
Band TRP /TIS(dBm)		<a href="#">9.30</a>	<a href="#">-68.93</a>											Band TRP /TIS(dBm)		<a href="#">9.74</a>	<a href="#">-66.37</a>
802.11AX	Channel No.	TRP (dBm)	TIS (dBm)											802.11AX	Channel No.	TRP (dBm)	TIS (dBm)
Tx_MCS7 / Rx_MCS7	1	9.57	-68.47											Tx_MCS8 / Rx_MCS8	36	9.93	-66.27
	6	9.22	-69.45												149	9.96	-66.68
	11	9.12	-68.87												161	9.34	-66.15

## Antenna Impedance: VSWR



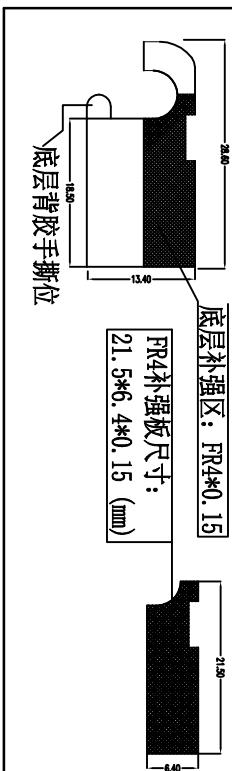
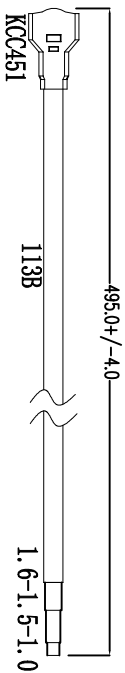
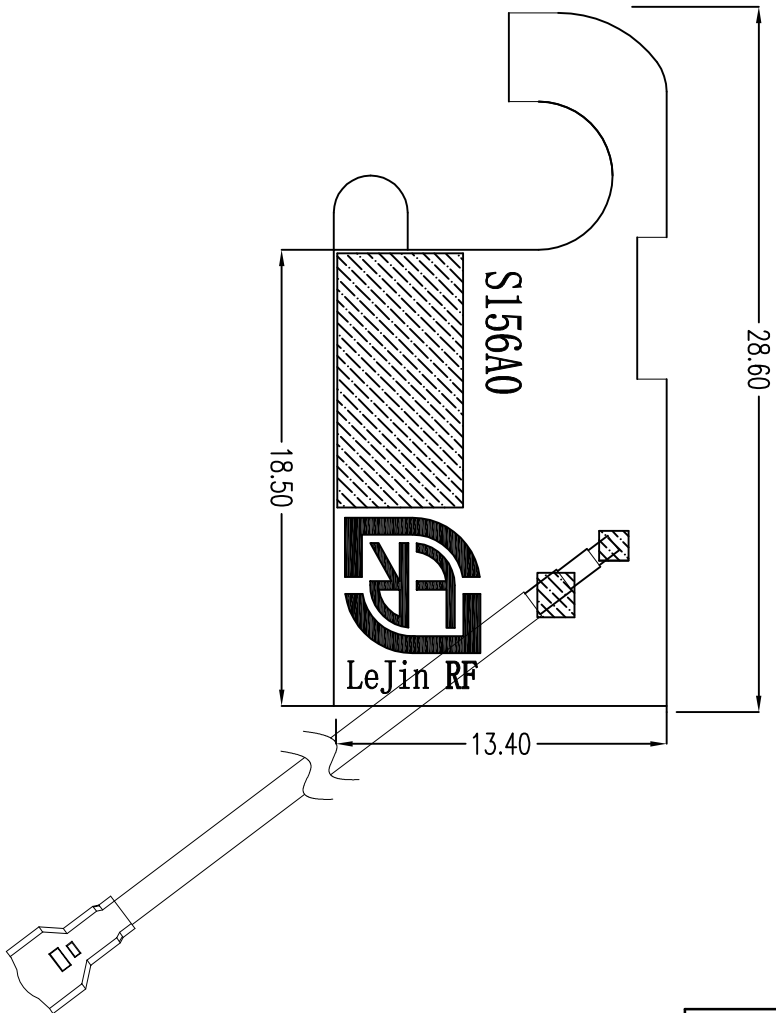
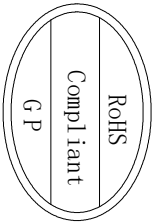
Freq (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi (%)	49.56	45.84	50.35	45.78	51.07	53.51	48.31	47.82	48.84	46.1	45.24
Gain (dBi)	0.65	0.38	0.61	0.06	0.34	0.69	0.74	1.04	1.44	1.25	1.28
Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950		
Effi (%)	42.67	44.85	46.73	50.87	49.88	43.83	43.15	42.57	41.79		
Gain (dBi)	0.23	0.34	0.21	0.45	1.26	0.5	0.39	0.29	0.05		



Antenna installation method:



Product Drawing:



Rev	Description	Date	Remark
1			
2			
3			
A	New drawing		

		深圳乐进射频频科技有限公司 SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD	
0~10 10~18 18~30 30~40 40~	±0.05 ±0.10 ±0.12 ±0.15 ±0.20	Third Angle 0.02 ∅0.03 0.02 0.04 ±0.5°	Project: R1568 Part Name: Part No.: Material: Treatment: LJJF02-23031808B-ROA
Location	Angle	Date: 20240321	Designed by:
		Checked by: RF	MD
		Approved by:	Scale: FIT
		Unit: mm	Rev: A