



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. (Phone number: 13603098741)

Customer Name: ELC

Product Name: LJF02-26040202A-R0A

Product Model: V3 AMP WIFI 1 ANT

Part Number:

Write By : 李明进

Issued Date: 2026/4/30

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
		李明进		数字签名者: 李明进 DN: cn=李明进, o=乐进射频, ou=研发, email=13603098741@163.com, c=CN 日期: 2026.05.13 18:12:23 +08'00'

ECN/ECR			



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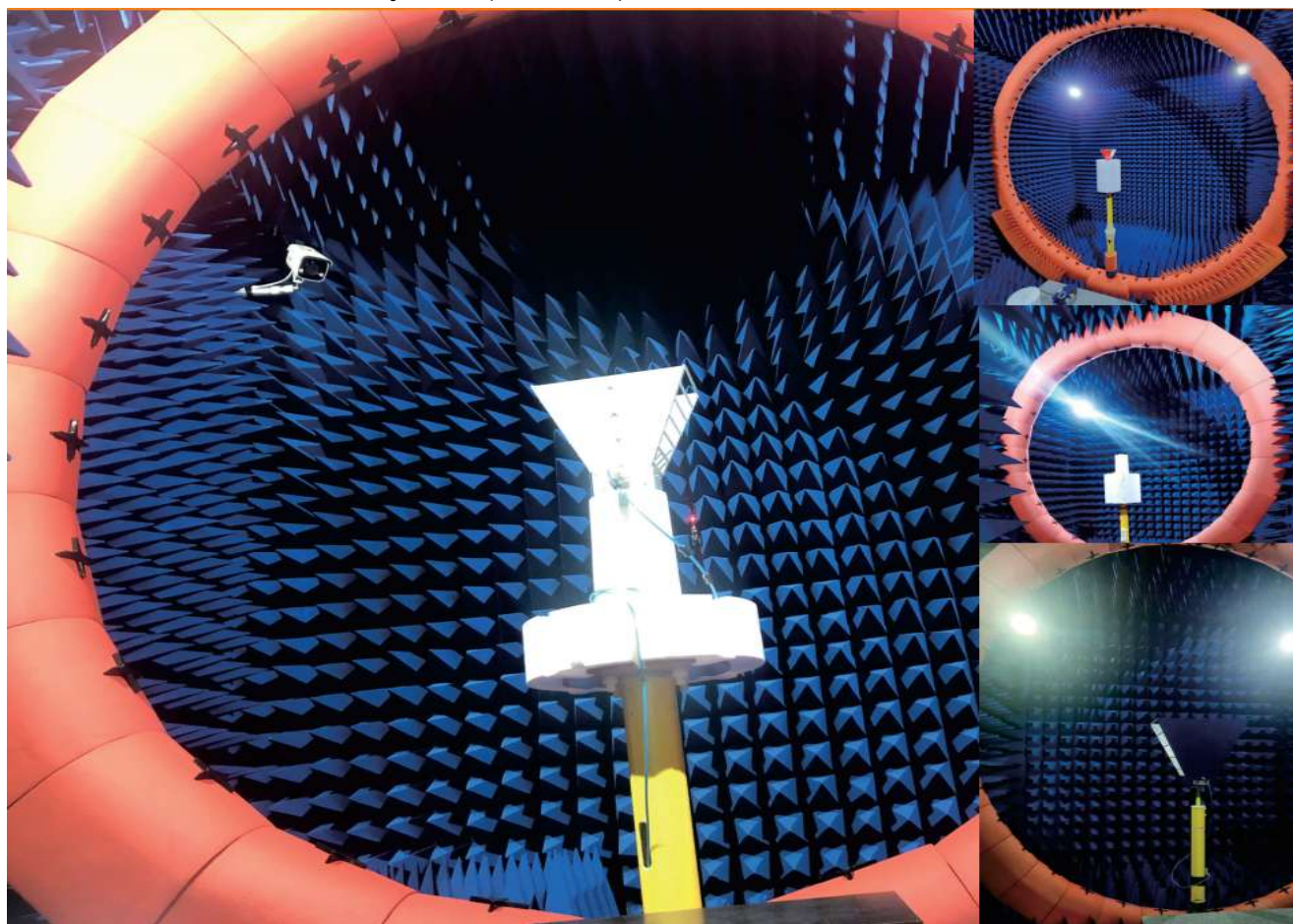
- 1、 (Cover)
- 2、 (Index)
- 3、 (Product Specification)
- 4、 (Test Equipment & Conditions)
- 5、 (Test Report)
- 6、 (Antenna Picture)

Summary of the basic data of the antenna:

Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<1.5	>40%	50 Ohm	Linear	$\geq 2.6\text{DB}$
5100MHz ~5900 MHz	<2.0	>45%	50 Ohm	Linear	$\geq 5.0\text{DB}$
5900MHz ~7125 MHz	NA				
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BL	1.13 GRAY	KCC1B1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

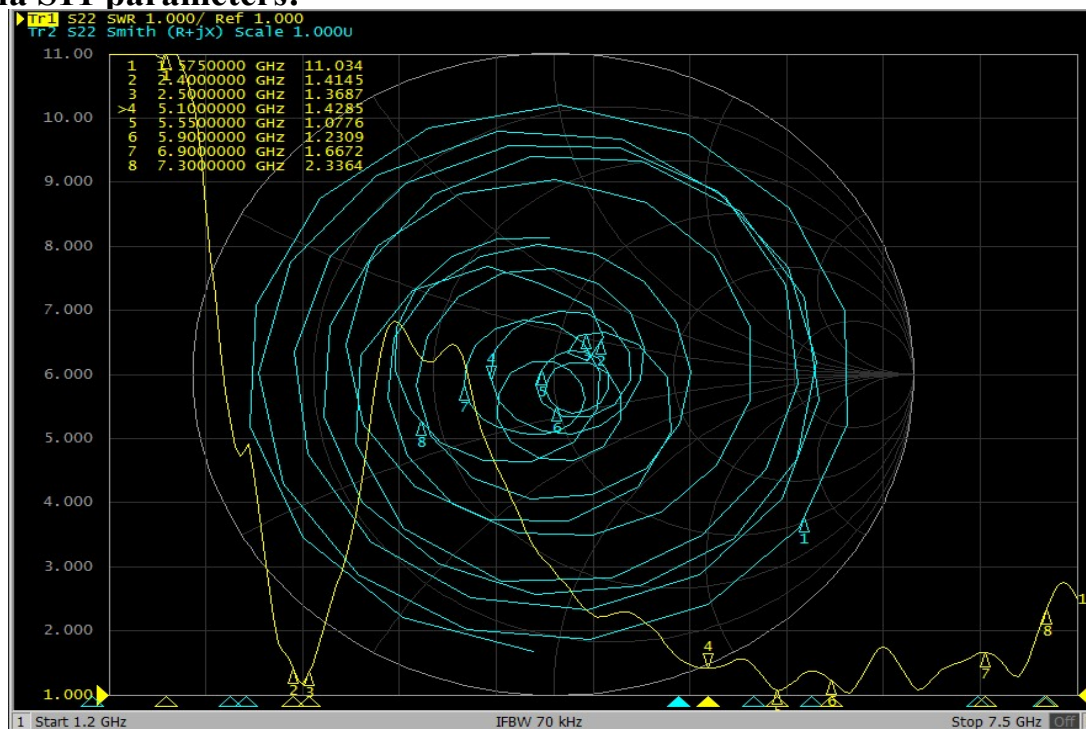
Test Equipment & Conditions

1. Network Analyzers :Agilent 5071C
2. Communications Test Set:Agilent E5515C/CMW500/AT8826
3. 3D Chamber Test System(ETS743)/STM23+1



Detailed data of antenna:

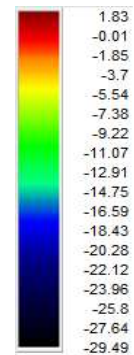
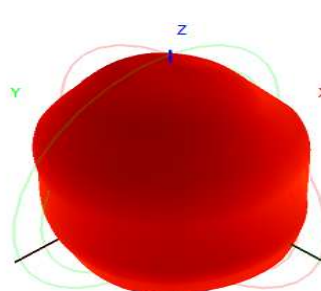
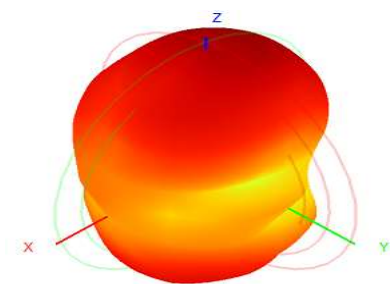
Antenna S11 parameters:



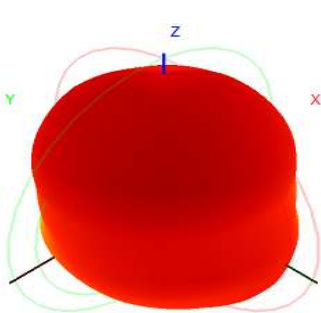
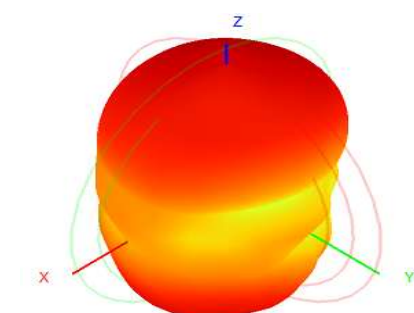
Antenna efficiency:

2.4G (Wifi/BT)	Freq	(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480		
	Effi	(%)	41.21	40.84	39.34	38.07	38.81	36.98	36.33	35.72	33.27		
	Gain	(dBi)	1.83	1.95	1.99	2.08	2.20	1.93	1.80	1.79	1.60		
5G WIFI	Freq	(MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6550	7150
	Effi	(%)	44.47	41.65	42.62	41.65	42.12	42.93	44.86	43.03	41.62	42.94	45.43
	Gain	(dBi)	3.56	3.58	3.91	4.60	4.18	4.83	4.72	4.46	3.58	4.27	4.65

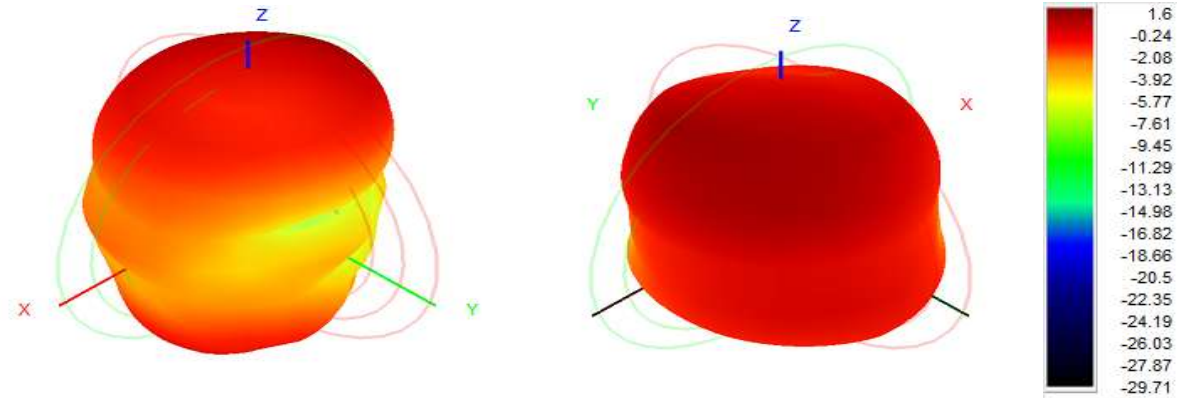
2400.0MHZ H+V, Eff: 41.2%



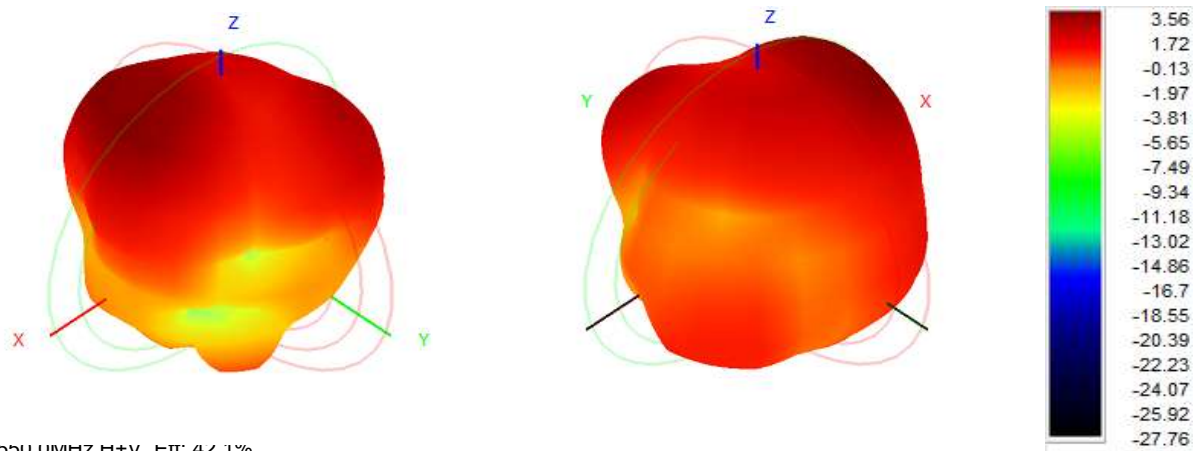
2450.0MHZ H+V, Eff: 36.98%



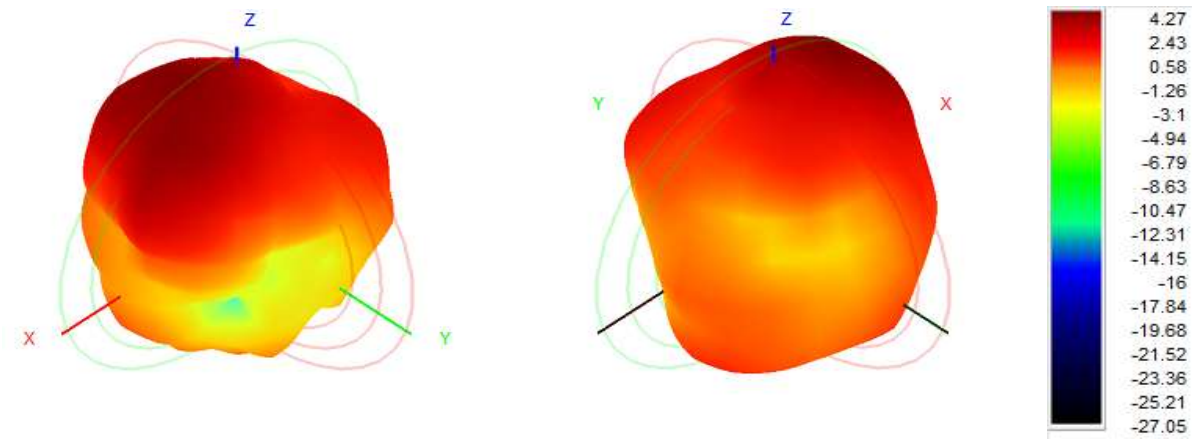
2480.0MHz H+V, Eff: 33.3%



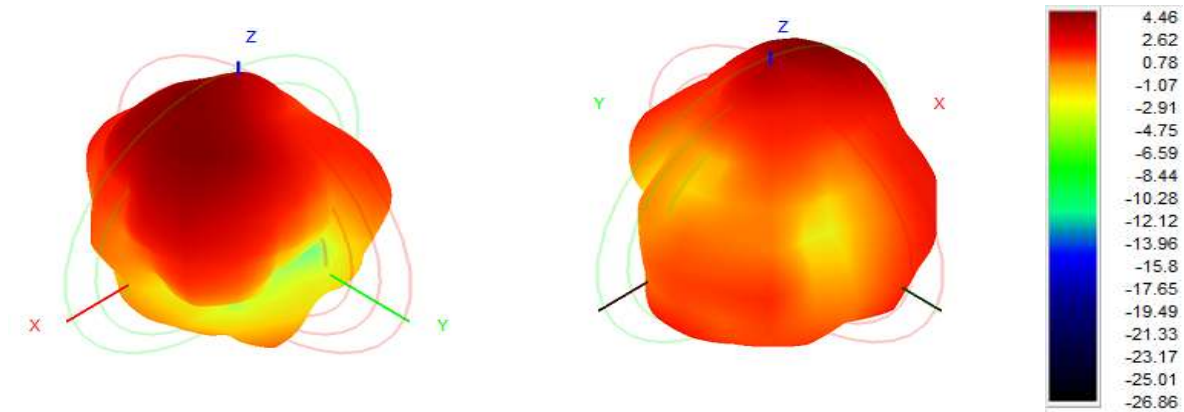
5150.0MHz H+V, Eff:44.51%



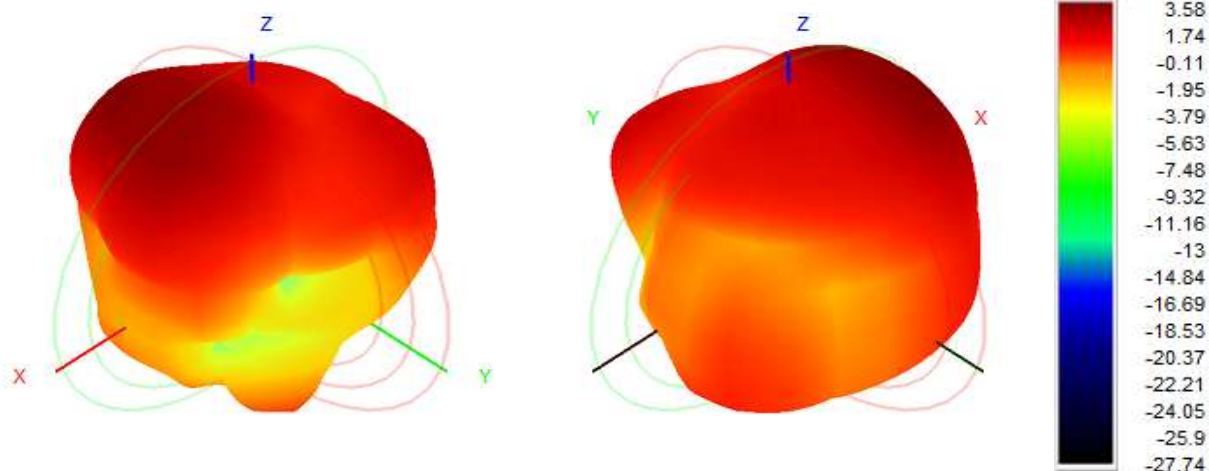
5550.0MHz H+V, Eff: 42.1%



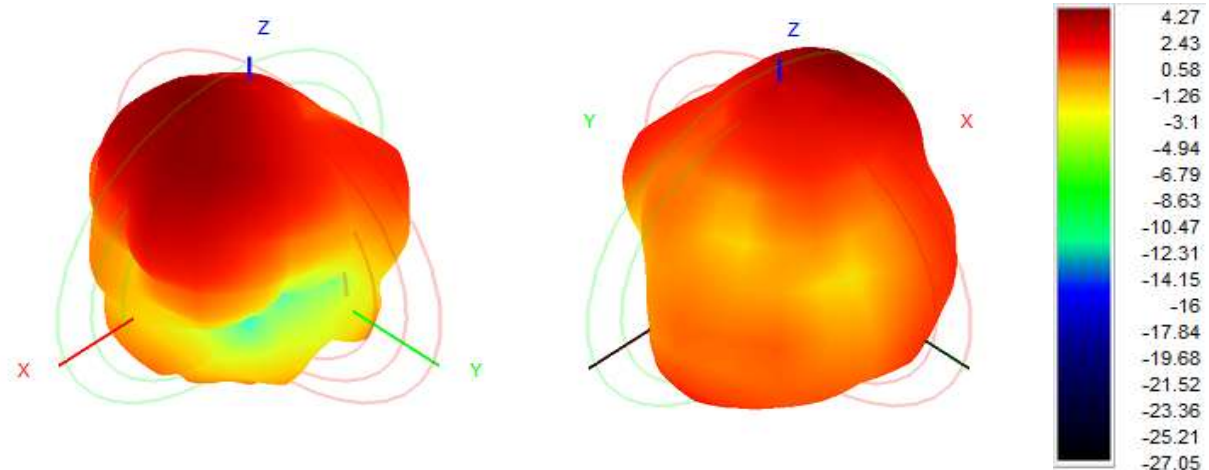
5850.0MHz H+V, Eff: 3.0%



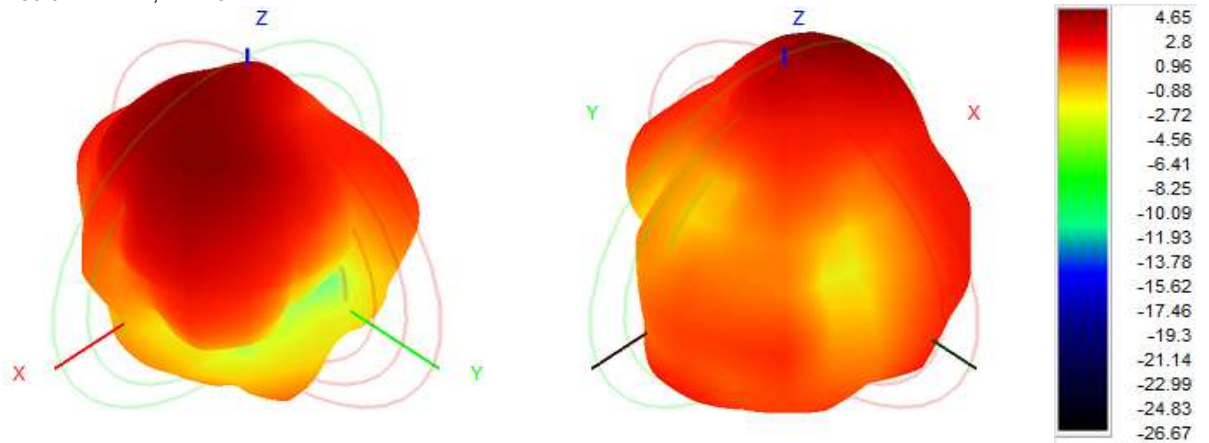
5950.0MHz H+V, Eff: 41.6%



6550.0MHz H+V, Eff: 42.9%



7150.0MHz H+V, Eff: 45.4%



Active OTA: (Combined with wifi0 ANT measurement for composite data)

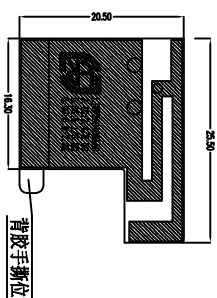
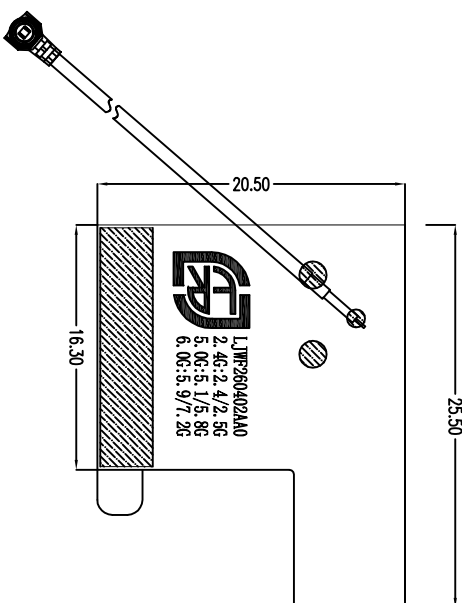
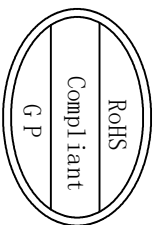
WIFI Antenna Performance Table														
TRP /TIS(dBm)			15.84	-81.13	TRP /TIS(dBm)			14.35	-72.99	TRP /TIS(dBm)			11.79	-67.99
802.11B	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11G	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AX	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_11M / Rx_11M	1	2412	15.55	-83.47	Tx_6M / Rx_54M	1	2412	14.13	-73.89	Tx / Rx MCS7 20MBIT	1	2412	11.23	-69.89
	6	2437	16.27	-80.56		6	2437	14.96	-72.75		6	2437	12.96	-66.75
	11	2462	15.69	-79.35		11	2462	13.97	-72.32		11	2462	11.17	-67.32
FI Whole Band TRP /TIS(dBm)			14.75	-71.23	FI Whole Band TRP /TIS(dBm)			13.61	-68.01	FI Whole Band TRP /TIS(dBm)			13.34	-66.58
802.11A	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AC	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11AX	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_6M / Rx_54M	36	5180	14.75	-72.16	Tx / Rx MCS7 20MBIT	36	5180	13.34	-68.25	Tx / Rx MCS7 20MBIT	36	5180	12.94	-67.11
	149	5745	14.96	-70.66		149	5745	13.51	-67.77		149	5745	13.72	-66.15
	165	5825	14.53	-70.87		165	5825	13.98	-68.02		165	5825	13.35	-66.47

Antenna Installation:

This data is the parameter of this antenna.



Drawing: (Please refer to the ANT0 Antenna Specification Sheet for detailed antenna port definition)



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$$60.0 + 1.5$$


113G (灰色)

1.5-2.5-1.0



SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

	Third Angle	Project	V3AMP ANT1	Date	2026-04-02
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0~10	± 0.05		0.02	Part Name	Designed by
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Part No.			
			MD
$10 \sim 18$	± 0.10	$\odot$	$\varnothing 0.03$

18~30	± 0.12	$\pm$	0.02	Material	LJWF260402A0	Checked by	RF
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40 $\sim$	+ 0.30	Angle	+ 0.5°	Approved by
30 $\sim$	± 0.13	$\simeq$	0.04	
20 $\sim$				

Location	Treatment		LJF02-26040202A-R0A	Init	mm	Scale	FTT	Rev	A

1	2	3	4	5	6	7	8
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