



SPECIFICATIONS FOR APPROVAL

The specification data is the sample antenna data. Due to factors such as the product not being glued to the shell, there may be differences between the trial production machine and the specification data. However, after correction with the trial production machine, the data can remain consistent with the specification data

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:	智纬
Product Name:	LJF02-24042802A-R2A
Product Model:	SA129 WIFI AUX ANT
Part Number:	
Write By :	李明进
Issued Date:	2024/6/29

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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Electrical Characteristics

Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2.5	>25%	50 Ohm	Linear	≥ 0 DB
5100MHZ--5900 MHZ	<2.5	>30%	50 Ohm	Linear	≥ 0 DB

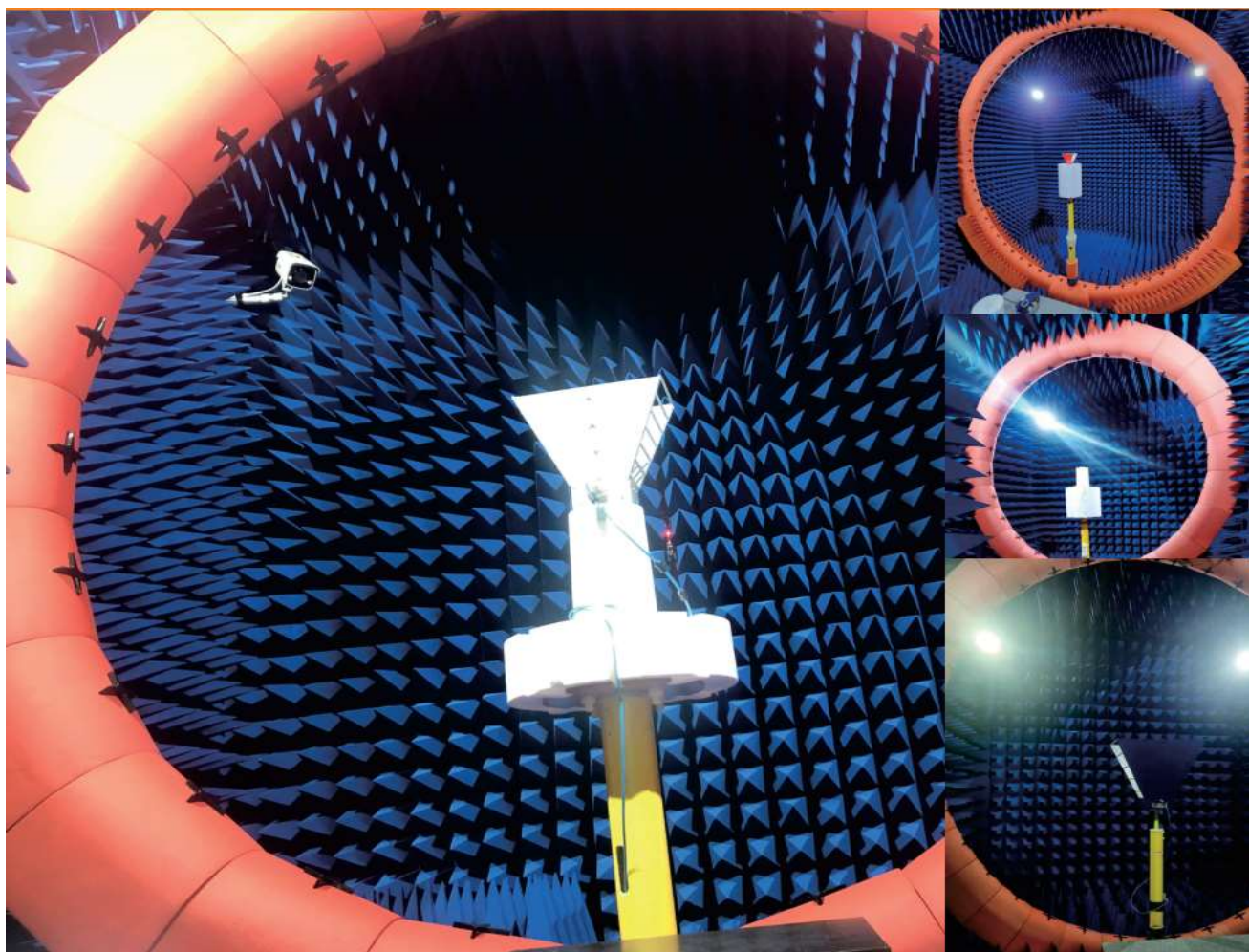
Material & Mechanical Characteristics

Environmental

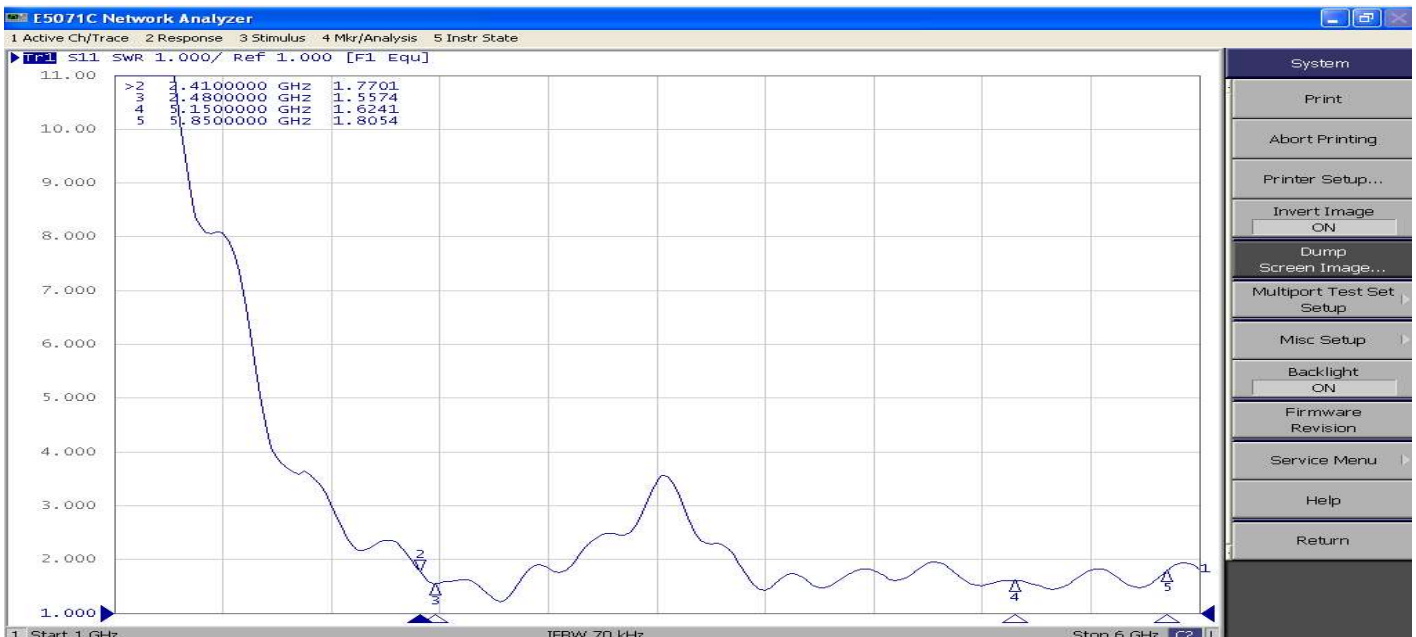
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BL	113G	KCC451-300		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

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

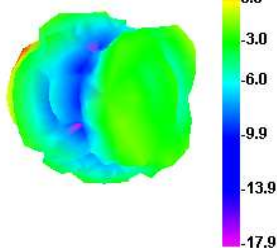


Antenna Impedance: WIFI ANT M:

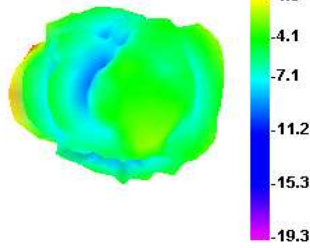


2.4G (Wifi/BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	ANTM
	Effi (%)	25.27	25.46	30.32	30.81	30.33	31.56	31.44	32.78	33.38	33.47	
	Gain (dBi)	1.98	2.07	1.35	1.11	1.08	1.14	1.27	1.05	2.31	2.66	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	30.89	35.12	37.78	40.69	42.33	45.25	40.18	45.05	44.55	46.85	
	Gain (dBi)	1.96	1.99	2.07	2.11	2.18	2.08	2.03	2.11	2.51	2.54	

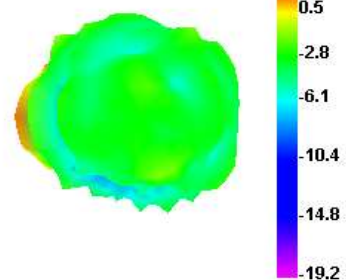
2400.000MHz



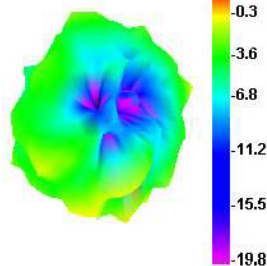
2450.000MHz



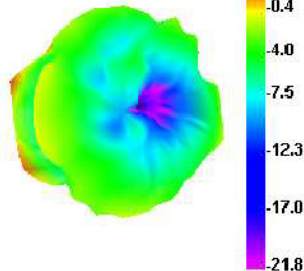
2500.000MHz



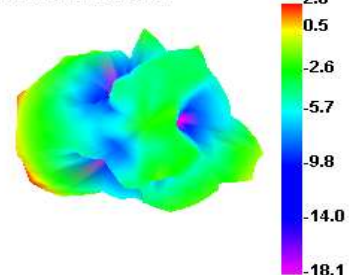
5150.000MHz



5550.000MHz



5850.000MHz

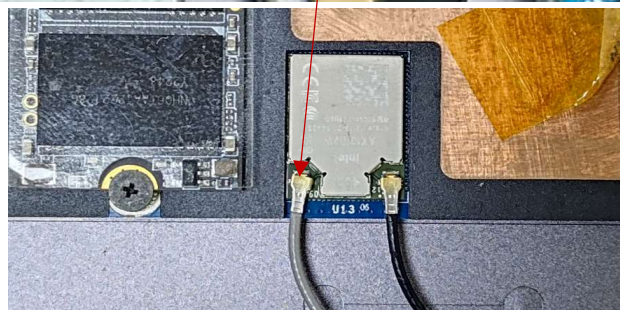


有源OTA配合MAIN ANT测是复合数据:

WIFI Antenna Performance Table									
TRP /TIS(dBm)			10.23	-73.33	IFI Whole Band TRP /TIS(dB)			10.65	-71.24
802.11 B	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)	802.11 A	Channel No.	Freq. (MHz)	TRP (dBm)	TIS (dBm)
Tx_11M / Rx_11M	1	2412	10.15	-71.35	Tx_6M / Rx_54M	36	5180	10.75	-72.17
	6	2437	10.34	-73.42		149	5745	10.24	-70.71
	11	2462	10.21	-75.21		165	5825	10.96	-70.84

R2A ANT

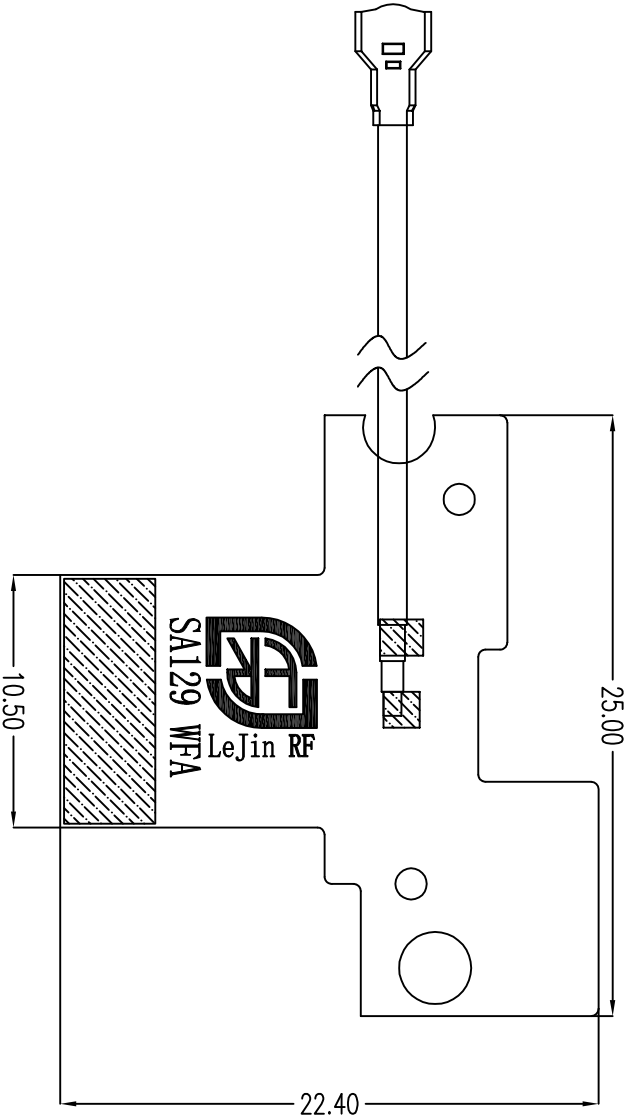
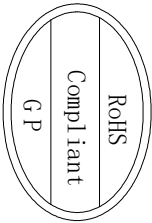
天线安装:



天线所需环境处理及布线方式与LJF02-24042802A-R0A规格书中要求一致。

天线工程图:

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LeJin		深圳乐进射频频科技有限公司	
SHEN ZHEN		LEJIN RADIO FREQUENCY CO., LTD	

0~10	±0.05	Third Angle	Project	SAI29 WIFI A ANT	Date	2024-06-29
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10~18	±0.10	◎	Part Name		Designed by	
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18~30	±0.12	⊥	Part No.		Checked by	MD
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30~40	±0.15	∠	Material		RF	
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40~	±0.20	Angle	Treatment	LJF02-240428002A-R2A	Approved by	
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Rev		Description		Date	Remark	Location		Treatment		Unit	mm	Scale	FTT	Rev	A
1		New drawing				1.13灰色		SAI29 WIFI A ANT							
2		Description				1.5-1.5-1.0		SAI29 WFA							
3		Date				10.50		22.40							
6		Remark				25.00		10.50							
7		Location				10.50		22.40							
8		Treatment				10.50		22.40							