



Shenzhen Lejin radio frequency technology Co., LTD

SPECIFICATIONS FOR APPROVAL

Customer Name: Anhui Upin intelligent Technology Co., Ltd

Product Name: WIFI (2G+5G)_MAIN_ANT

Product Model: R1529

Part Number: LJF02-230210001M-R0A

Write By : Star_Li

Issued Date: 2023/2/10

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

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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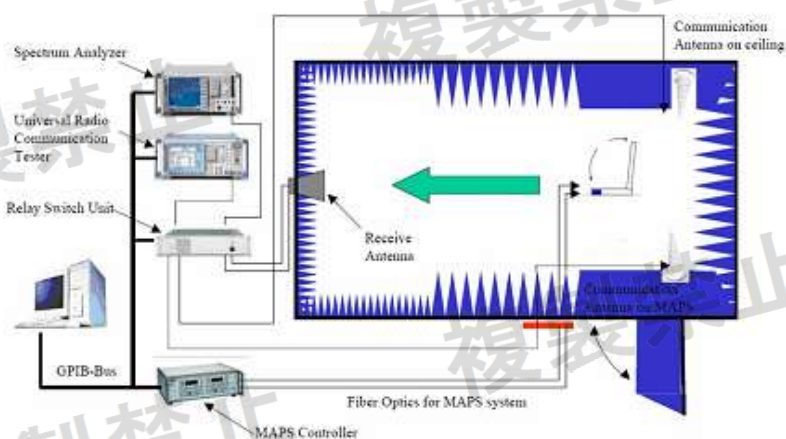
Electrical Characteristics

Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<2	>35%	50 Ohm	Linear	≥ 1 DB
5100MHZ--5900 MHZ	<2.5	>40%	50 Ohm	Linear	≥ 1 DB

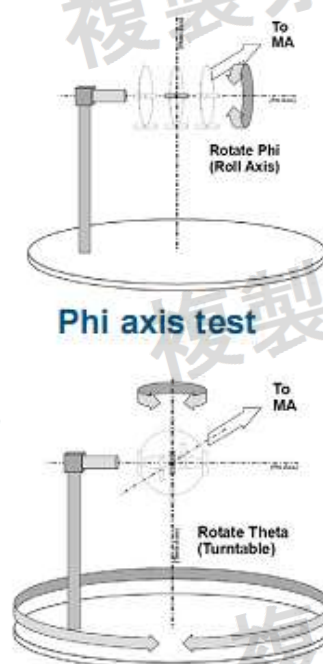
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
FPC black/YELLOW	113	KCC451		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

Test Equipment & Conditions

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



(Testing by 3D anechoic chamber)



Theta axis test

Antenna Impedance: WIFI ANT M:

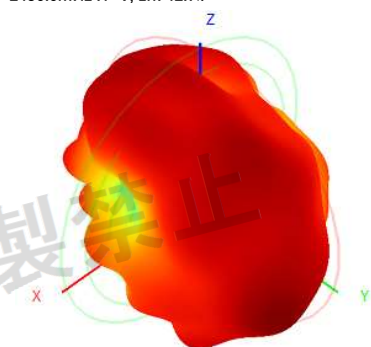


OTD_DATA:

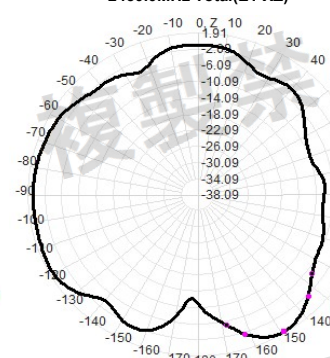
2.4G 802.11.B @11Mbit		
Frequency	TRP (dBm)	TIS (dBm)
1 (2412MHz)	13.11	-84.61
6 (2437MHz)	13.57	-83.5
13 (2472MHz)	13.61	-84.55

5G 802.11 A @MC54		
Frequency	TRP (dBm)	TIS (dBm)
36 (5180MHz)	14.5	-72.35
60 (5300MHz)	14.72	-71.89
161 (5805MHz)	13.88	-71.47

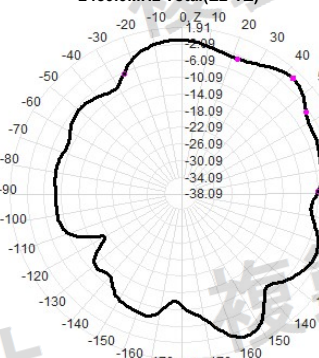
2450.0MHz H+V, Eff: 42.7%



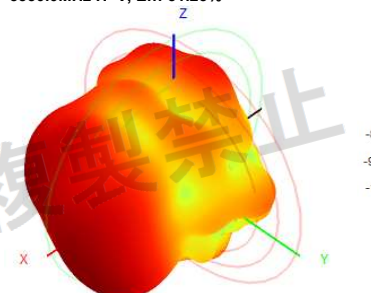
2450.0MHz Total(E1-XZ)



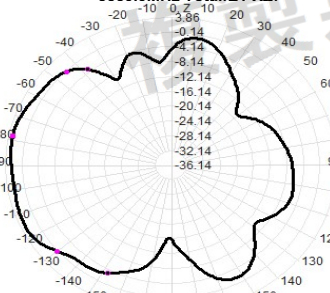
2450.0MHz Total(E2-YZ)



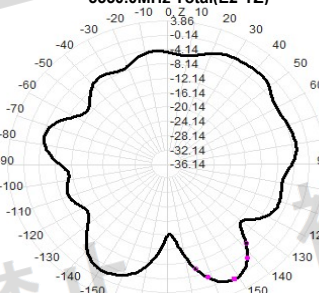
5550.0MHz H+V, Eff: 51.25%



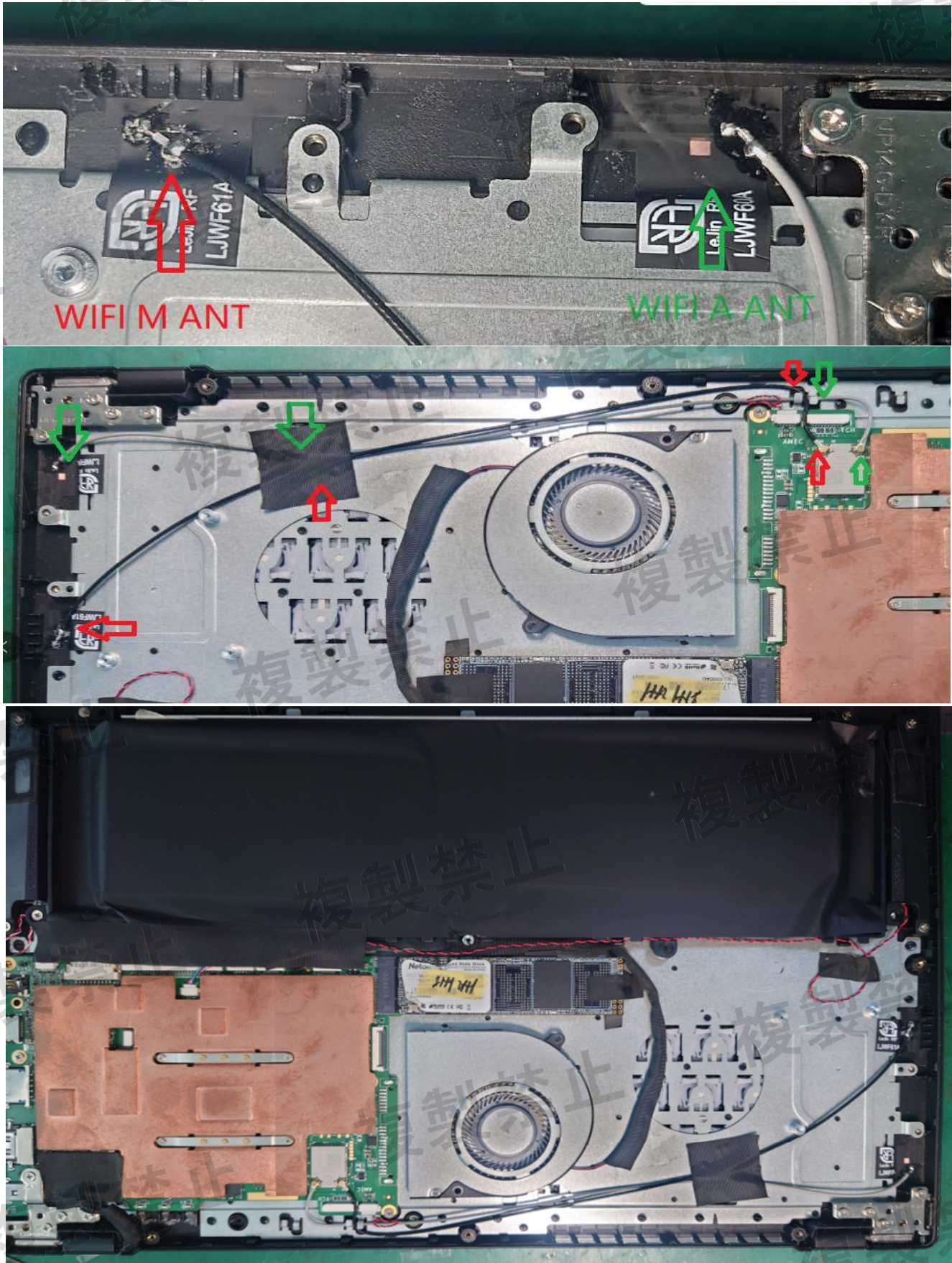
5550.0MHz Total(E1-XZ)



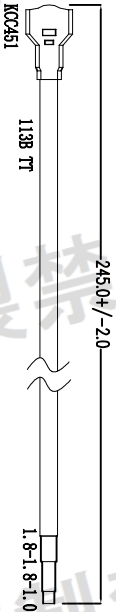
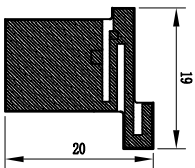
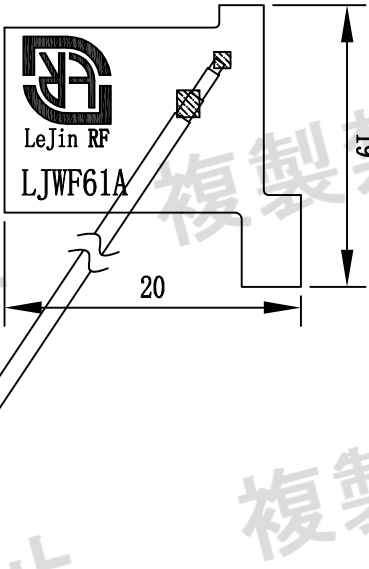
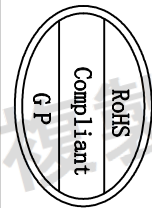
5550.0MHz Total(E2-YZ)



Requirements and instructions for antenna installation and process processing:



Product Drawing:



A		B		C		D	
Rev	1	2	3	4	5	6	7
A		Description		Date	Remark	Location	
New drawing						40~	
						±0.20	
						Angle	
						±0.5°	
						Treatment	
						LJWF02-230210001M-R0A	
						Unit	
						mm	
						Scale	
						FIT	
						Rev	
						A	

LeJin		Third Angle		Project		Date	
0~10		±0.05		R1529 ant		2023-02-10	
10~18		±0.10		WIFI M ANT			
18~30		±0.12		Part No.			
30~40		±0.15		Material			
40~		±0.20		LJWF01-230210002-R1A			
				Checked by			
				RF			
				Approved by			
				MD			

SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD		2023-02-10	
深 圳 乐 进 射 频 科 技 有 限 公 司			