

Antenna specification

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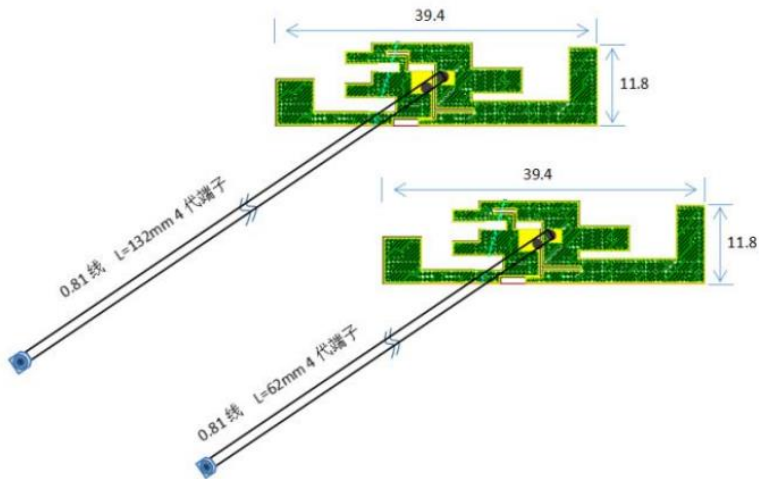
SHENZHEN JUNYU COMMUNICATION EQUIPMENT CO.,LTD.

Address:A82,8th Floor,Zhenxing Building,No.65 Jinli Road,Buji Street,

Longgang District,Shenzhen



2. Antenna specifications



Requirement:

1. The outer layer of the wire is not torn or damaged
2. The finished product must be 100% tested for conductivity and OK
3. The finished product must undergo 100% full inspection and be OK
4. Adopting environmentally friendly processes that comply with ROHS requirements
5. Terminal tension: 1.5KG
6. For unmarked tolerances, please refer to the general tolerances

Test conditions:

- High voltage: 200V DC
Conduction: 0.5 OHM MAX
High voltage time: 1mS
Insulation impedance: 10M OHM MIN



3. Antenna debugging requirements

radio frequency	Technical drafting	WiFi	
	Frequency band requirements	WIFI-2.4G/WIFI-5.8G	
	Number of communication antennas	2	WIFI



4. Passive efficiency of the main antenna

WIFI-1

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	36%	-4.43	2.74
2410	37%	-4.31	3.26
2420	38%	-4.20	3.57
2430	40%	-4.00	3.89
2440	41%	-3.91	4.14
2450	40%	-3.93	4.17
2460	45%	-3.47	2.59
2470	43%	-3.69	2.41
2480	40%	-3.95	2.44
2490	38%	-4.25	2.23
2500	36%	-4.47	2.25
5100	31%	-5.13	5.45
5200	33%	-4.85	-0.18
5250	34%	-4.68	2.30
5300	33%	-4.76	2.47
5350	33%	-4.86	2.40
5400	32%	-4.93	2.52
5450	33%	-4.77	2.56
5500	34%	-4.72	2.51
5550	35%	-4.61	2.49
5600	35%	-4.52	2.59
5650	35%	-4.33	2.62
5700	35%	-4.54	1.76
5750	34%	-4.63	1.48
5800	34%	-4.67	0.79
5850	34%	-4.74	0.37



4. Passive efficiency of the main antenna

WIFI-2

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	36%	-4.48	1.05
2410	35%	-4.56	1.06
2420	35%	-4.54	1.76
2430	34%	-4.63	1.48
2440	34%	-4.67	0.79
2450	34%	-4.74	0.37
2460	33%	-4.85	-0.18
2470	31%	-5.13	1.26
2480	30%	-5.54	0.32
2490	29%	-5.30	-0.14
2500	28%	-5.49	1.40
5100	27%	-5.68	1.74
5200	28%	-5.55	-0.14
5250	28%	-5.58	1.40
5300	28%	-5.46	0.32
5350	29%	-5.30	0.49
5400	29%	-5.31	-0.28
5450	29%	-5.31	-0.68
5500	30%	-5.19	-0.69
5550	31%	-5.15	-0.63
5600	31%	-5.12	-0.62
5650	30%	-5.25	-0.46
5700	30%	-5.19	-0.39
5750	29%	-5.33	-0.46
5800	28%	-5.55	-0.29
5850	28%	-5.58	-0.26



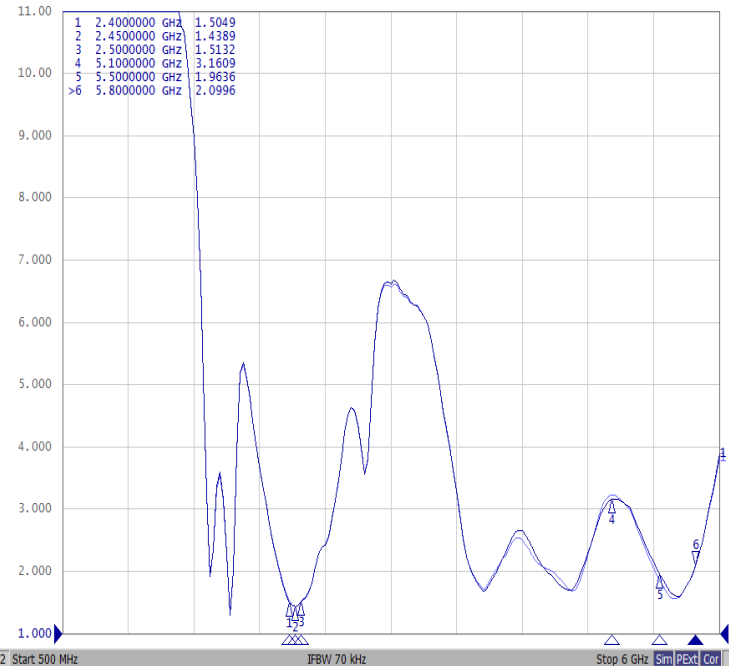
5. Antenna VSWR



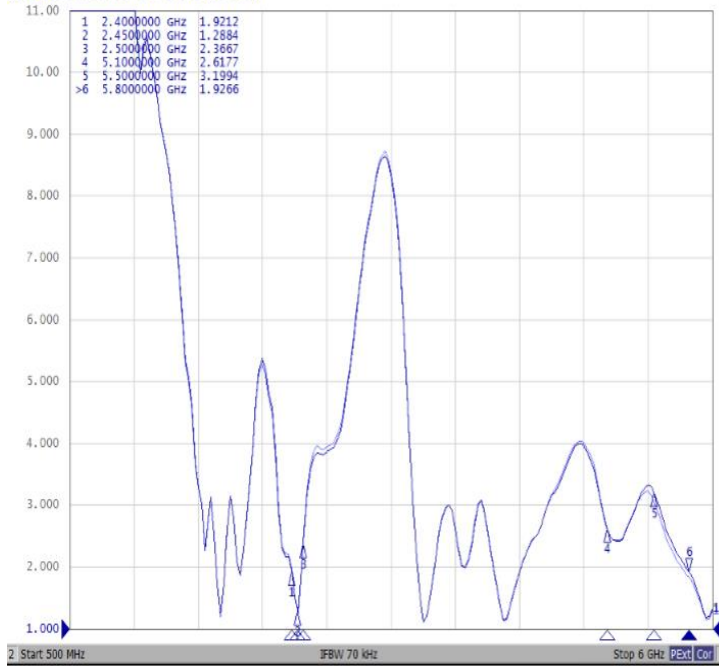
WIFI 1

WIFI 2

S22 SWR 1.000/ Ref 1.000 [F1 D&M]



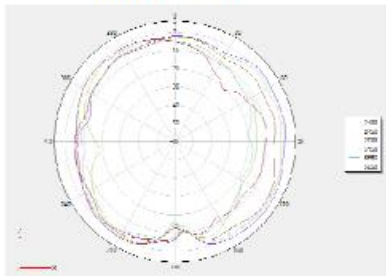
S22 SWR 1.000/ Ref 1.000 [F1 D&M]



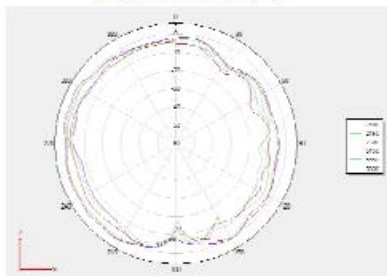


6. Antenna Radiation Pattern

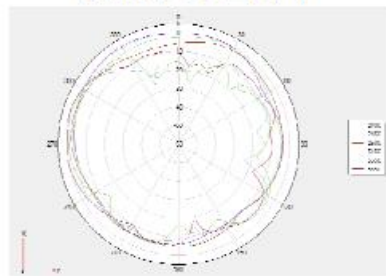
Phi 0 2D图



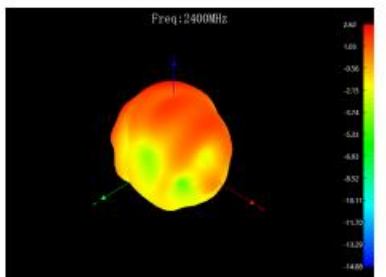
Phi 90 2D图



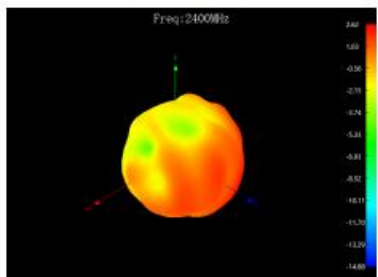
Theta 90 2D图



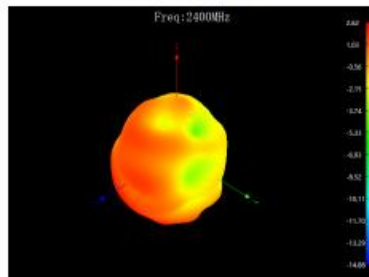
2400MHz



2400MHz



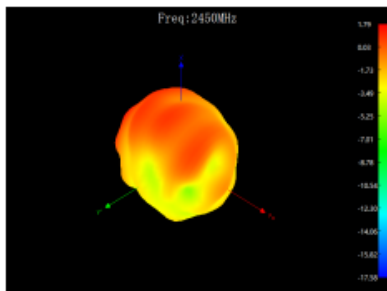
2400MHz



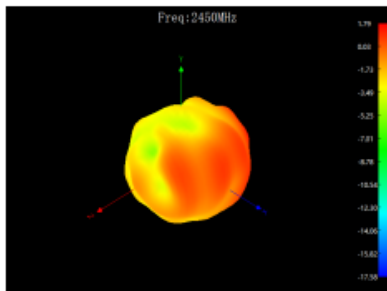


6. Antenna Radiation Pattern

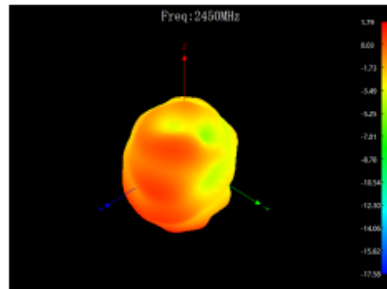
2450MHz



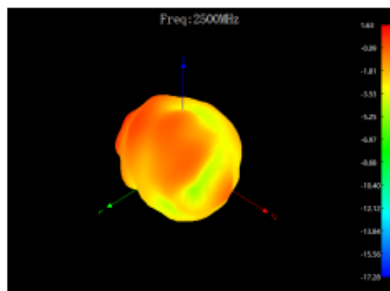
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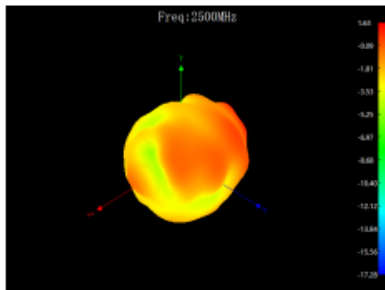
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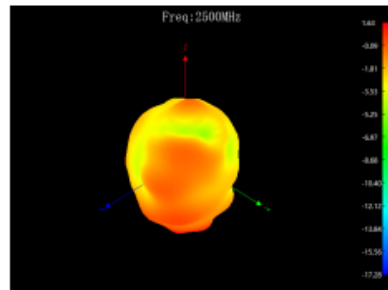
2500MHz



2500MHz



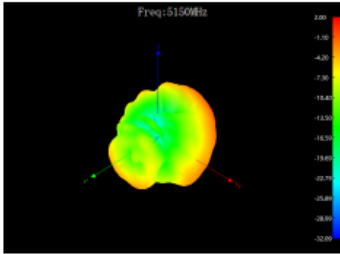
2500MHz



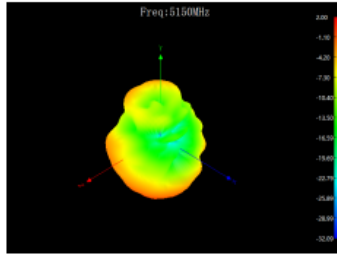


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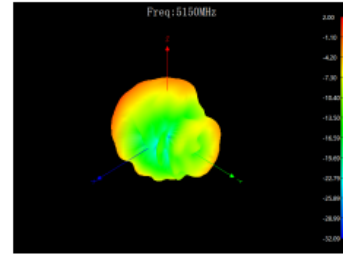
5150MHz



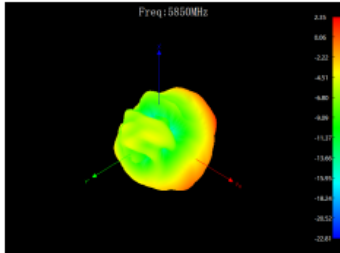
5150MHz



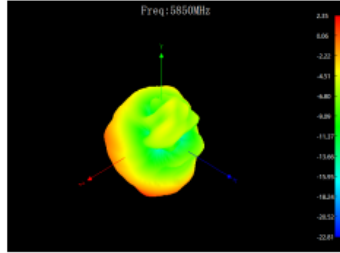
5150MHz



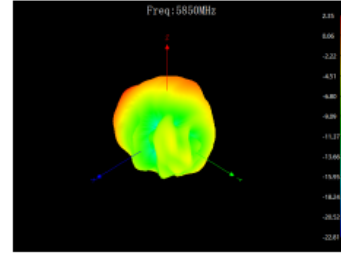
5850MHz



5850MHz

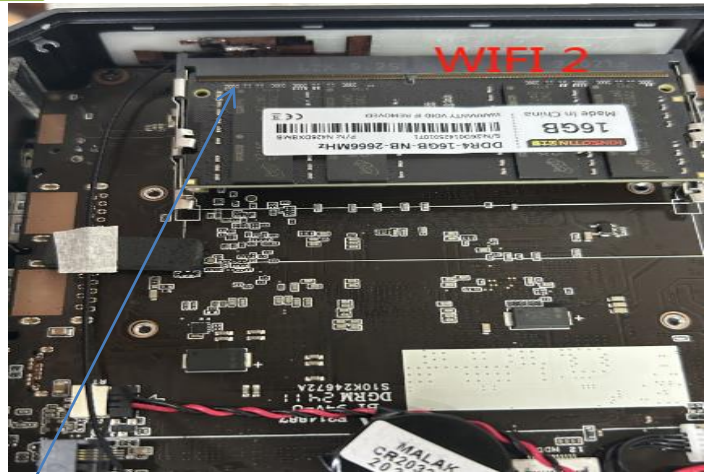


5850MHz





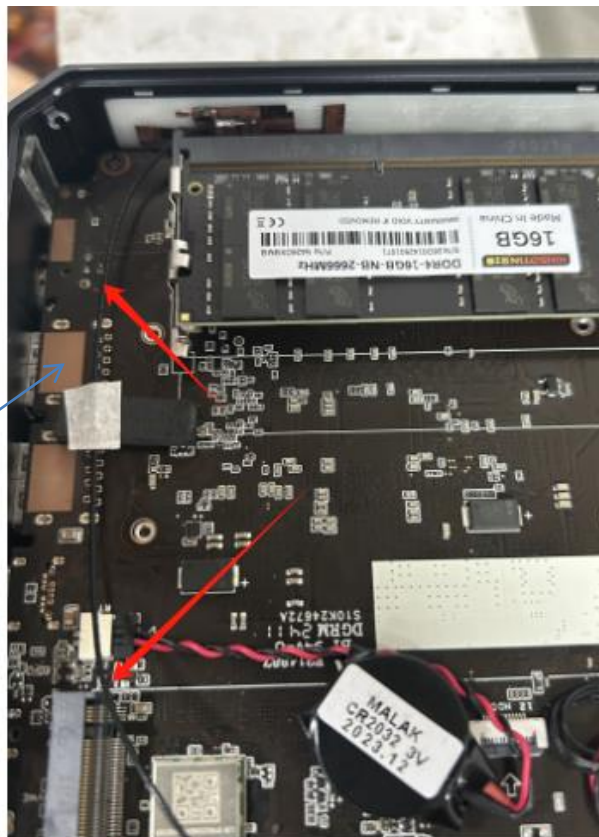
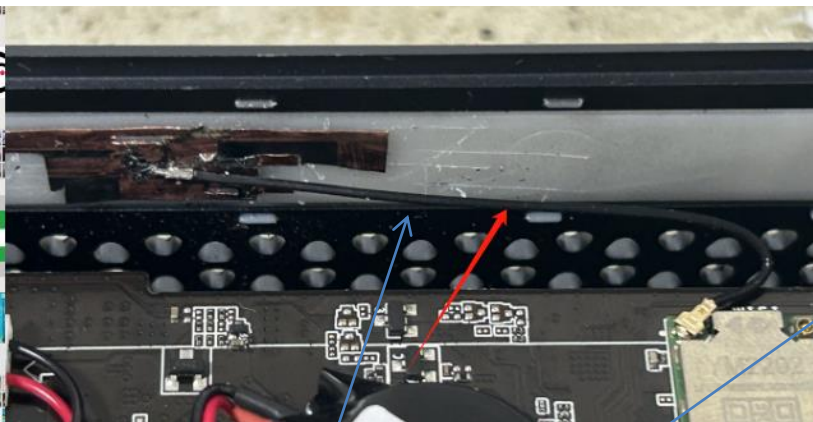
7.Environmental treatment



Antenna WIFI1-WIFI2 layout



7.Environmental Treatment



The coaxial line is arranged as shown in the above diagram.