

Antenna specification

Content



1. Company name



2. Antenna specifications



3. Antenna debugging requirements



4. Passive efficiency of the main antenna



5. Antenna VSWR



6. Antenna radiation pattern



7. Environmental treatment

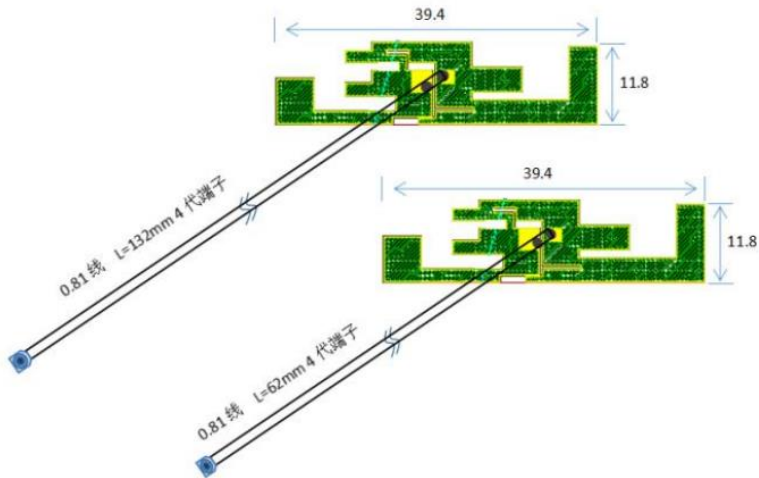
SHENZHEN JUNYU COMMUNICATION EQUIPMENT CO.,LTD.

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

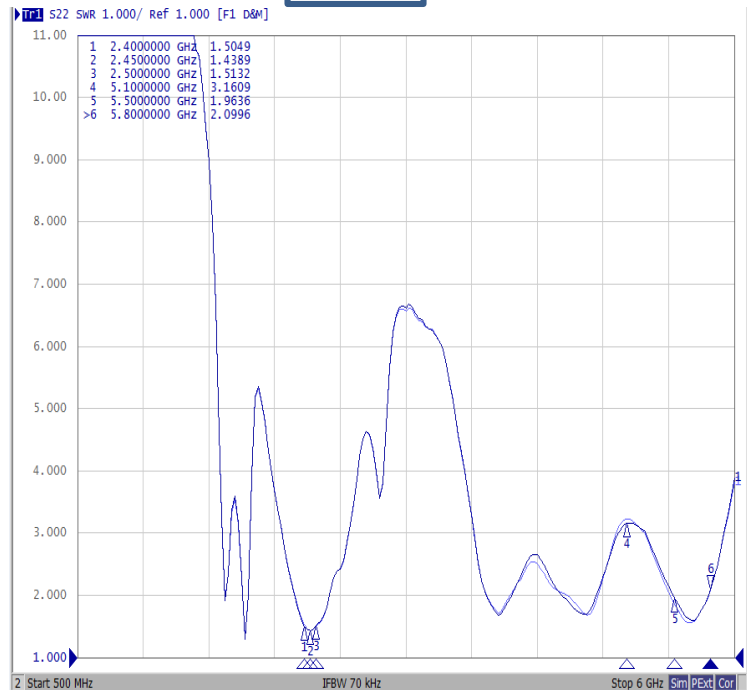


5. Antenna VSWR



WIFI 1

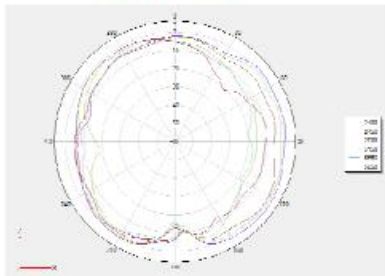
WIFI 2



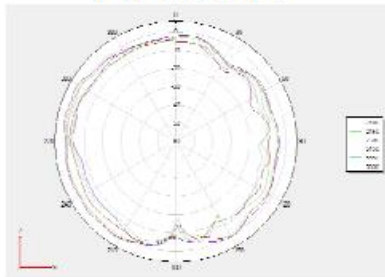


6. Antenna Radiation Pattern

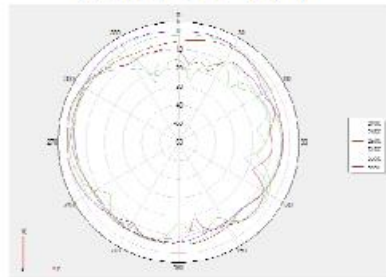
Phi 0 2D图



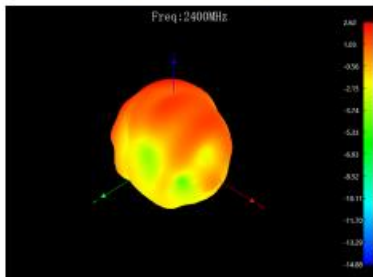
Phi 90 2D图



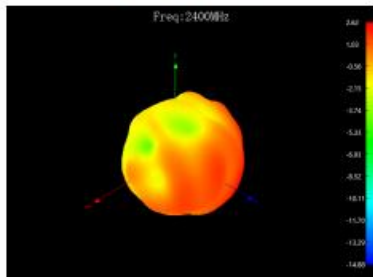
Theta 90 2D图



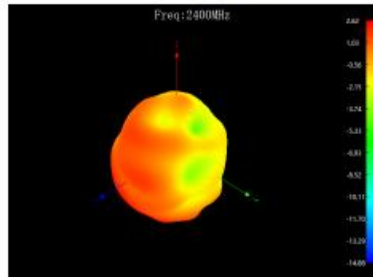
2400MHz



2400MHz



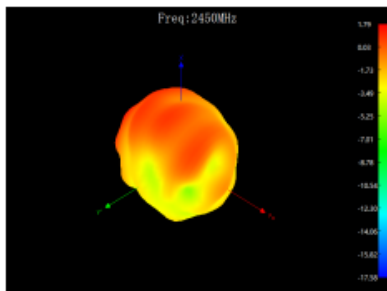
2400MHz



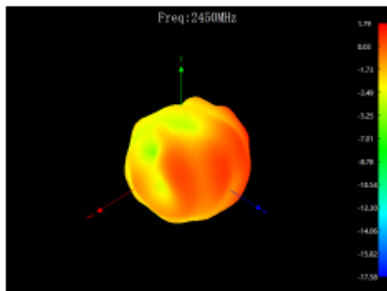


6. Antenna Radiation Pattern

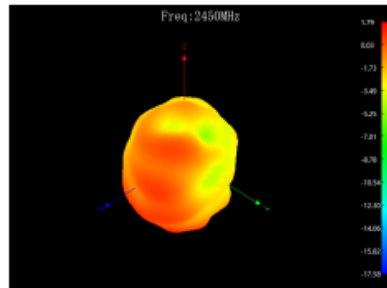
2450MHz



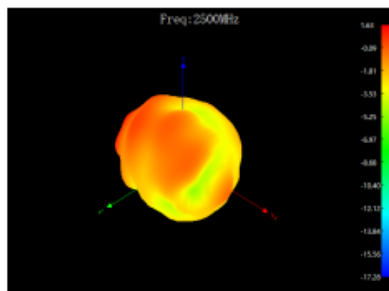
2450MHz



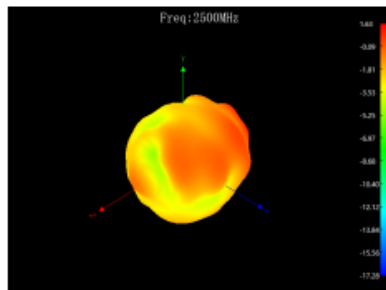
2450MHz



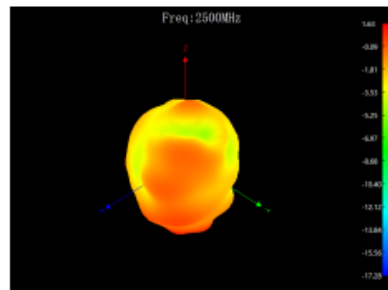
2500MHz



2500MHz



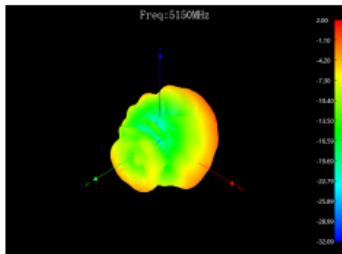
2500MHz



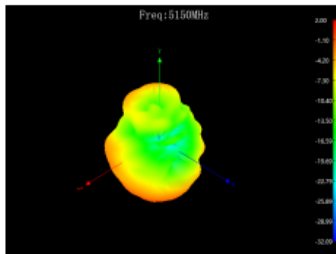


6. Antenna Radiation Pattern

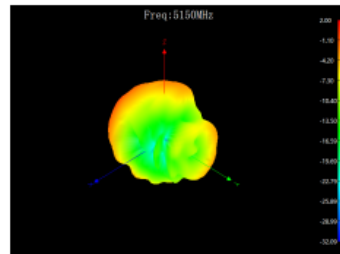
5150MHz



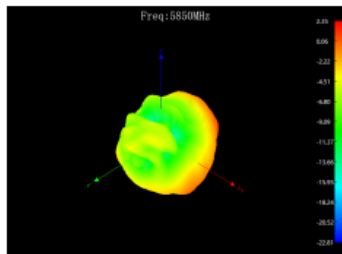
5150MHz



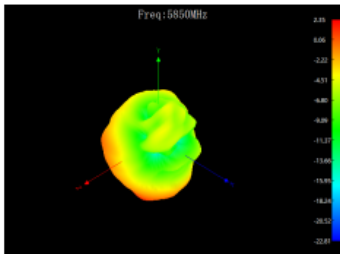
5150MHz



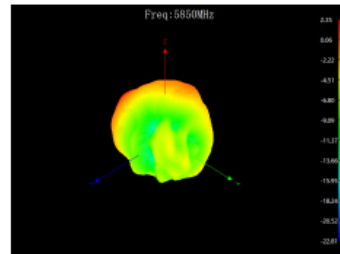
5850MHz



5850MHz



5850MHz





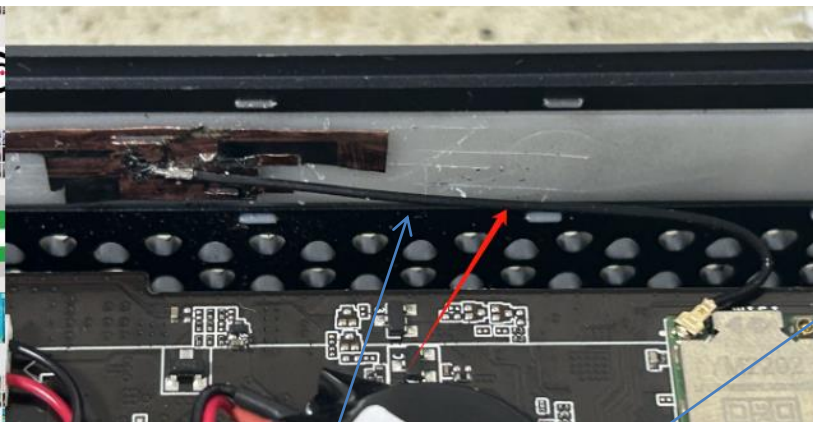
7.Environmental treatment



Antenna WIFI1-WIFI2 layout



7.Environmental Treatment



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

