

深圳市俊宇通讯器材有限公司

Shenzhen Junyu Communication Equipment Co., Ltd.

Antenna Type: FPC Built-in Antenna

Manufacturer: Shenzhen Junyu Communication Equipment Co., Ltd.

Address: Room 506, Qiurui Creative Park, No. 4 Bayue First Street, Shuijing Community, Jihua Subdistrict, Longgang District, Shenzhen

Antenna Drawing:

1 2 3 4 5 6 7 8

REV DESCRIPTION DATE APPROVED

AD

A

B

C

D

E

F

RoHS Compliant

WiFi天线

0.81mm总线 L=190mm 代端子

31 1 2 4 9 24 9

技术要求

1. 标注尺寸为重点管控尺寸，未注倒圆角均为R2，工艺
沿边为0.15mm；

2. 铜泊表面涂黑油，黑字；

3. 背胶用3M 9471胶，厚度0.05mm；

4. 基材PI+双面电解铜 一对半；

5. 露铜区域镀镍。区域请保持清洁，不能有污渍、手指
印等；

6. 未注公差按一般公差表。

长度单位：mm

一般公差 (GENERAL TOLERANCES)

尺寸 (Dimension)	公差 (Tolerance)	角度 (Angle)	公差 (Tolerance)
0-1	±0.1	X°	±1°
1-10	±0.3	X.X°	±0.5°
10-30	±0.6		
30-100	±1		
100-300	±2		

(UNLESS OTHERWISE SPECIFIED)

版本 (REV)	图号名称 (Draw Name)	客户料号 (CUS No.)
AD	组立图	
比例 (Scale)	产品名称 (Product Name)	产品料号 (Product No.)
	OPEN-FPC-0.81mm-L185MM	
图例 (Draw Name)	单位 (UNIT)	幅面 (Size)
标准图	mm	A4
审核 (Checked)	页/次 (Sheet)	原始日期 (Original Date)
	1/1	2026.7.28
核准 (APPROVED)		

No.	Name	Description	Q'ty	Part No.
2	FPC板	L34.5*7*0.26黑色FPC板	1	1801-0034
1	线材	0.81mm-48-锡-FEP	1	1301-0004

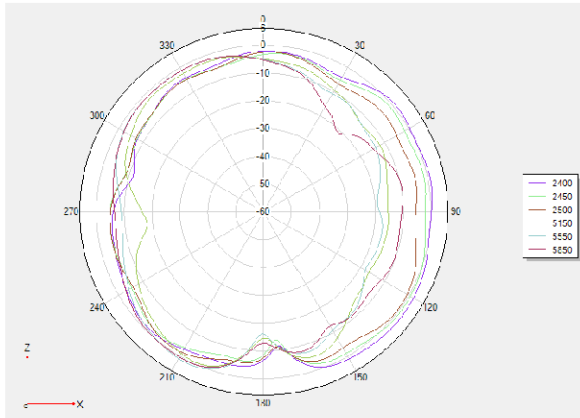
1 2 3 4 5 6 7 8

2D, 3D Test Data:

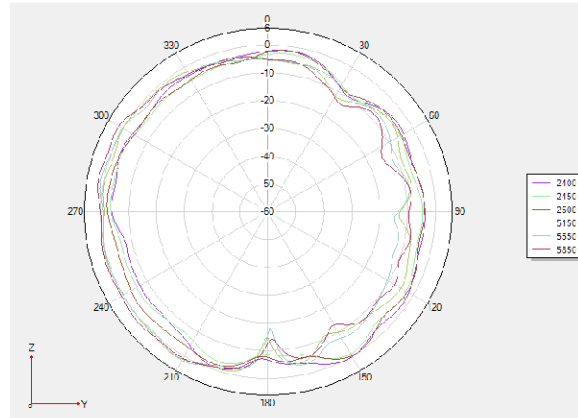
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	59.79	2.62
2410	55.01	2.04
2420	58.81	1.75
2430	54.08	1.63
2440	50.12	2.30
2450	60.91	1.79
2460	57.97	1.83
2470	57.42	1.85
2480	53.85	2.28
2490	55.50	1.96
2500	56.24	1.63
5150	49.79	2.00
5250	50.15	2.11
5350	49.98	2.64
5450	52.09	2.55
5550	55.16	2.17
5650	59.98	3.31
5750	51.29	2.22
5850	52.07	2.35

2D, 3D Test Data:

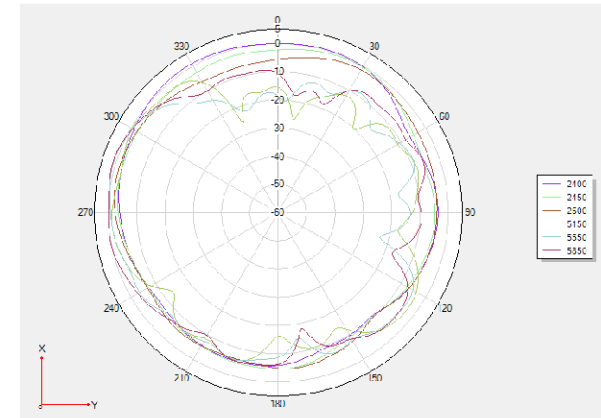
Phi 0 2D Pattern



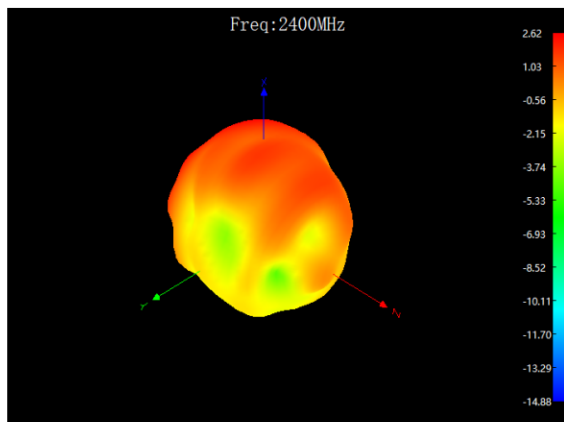
Phi 90 2D Pattern



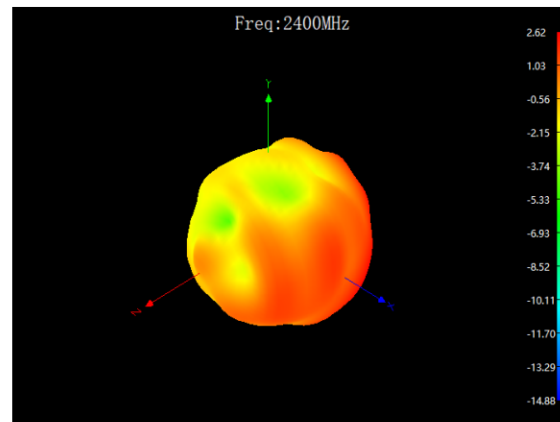
Theta 90 2D Pattern



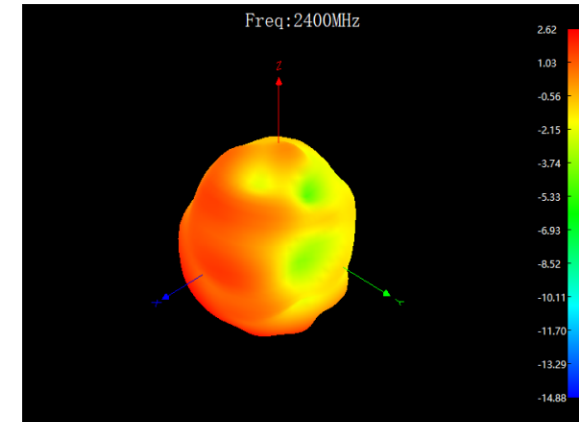
2400MHz



2400MHz

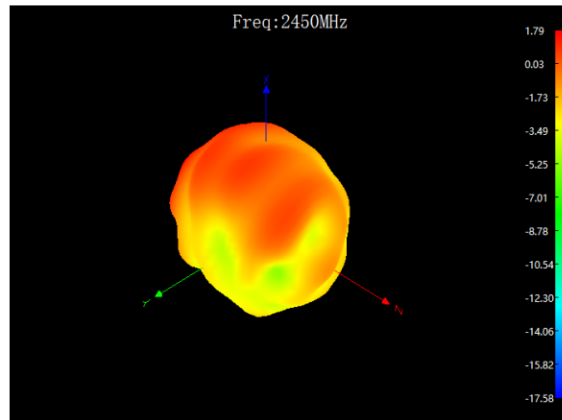


2400MHz

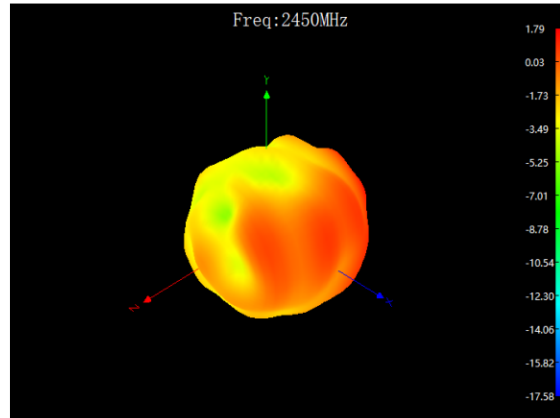


2D, 3D Test Data:

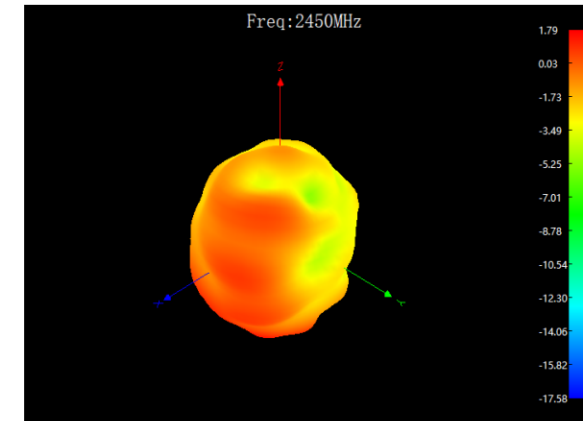
2450MHz



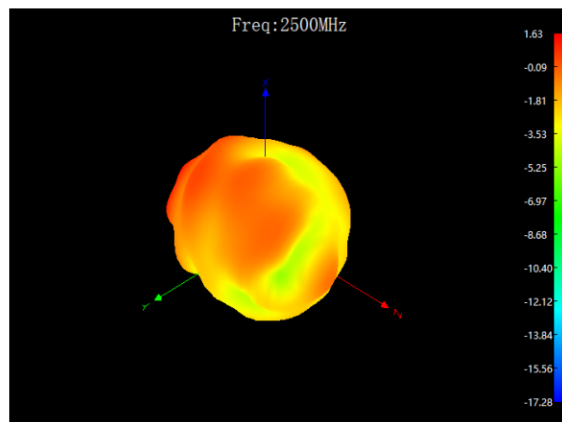
2450MHz



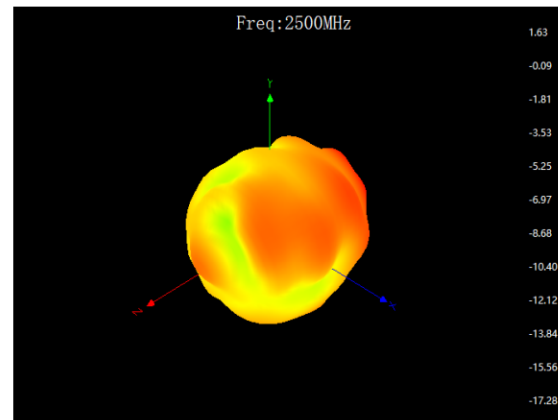
2450MHz



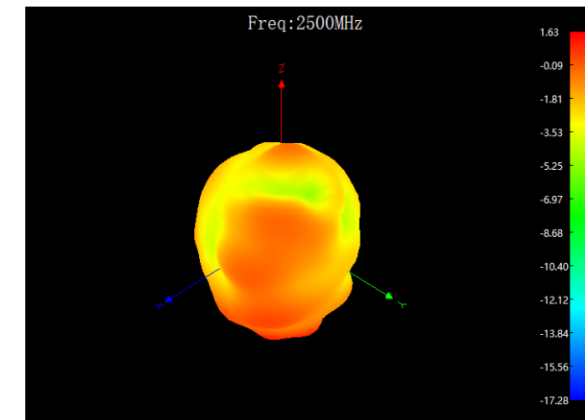
2500MHz



2500MHz

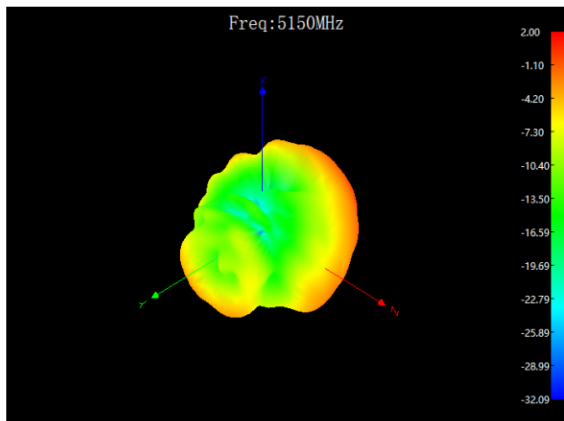


2500MHz

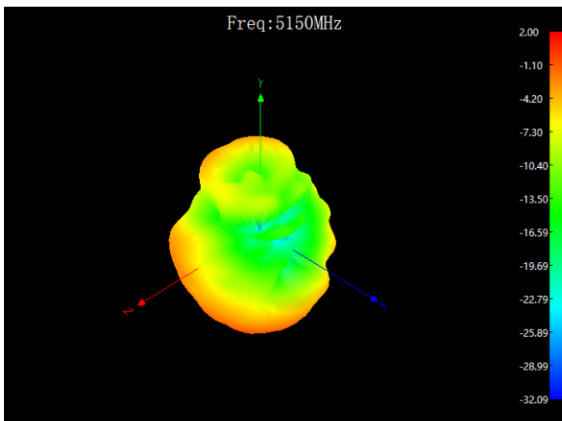


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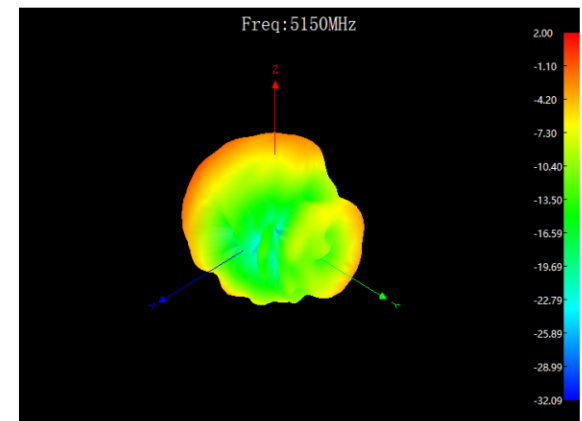
5150MHz



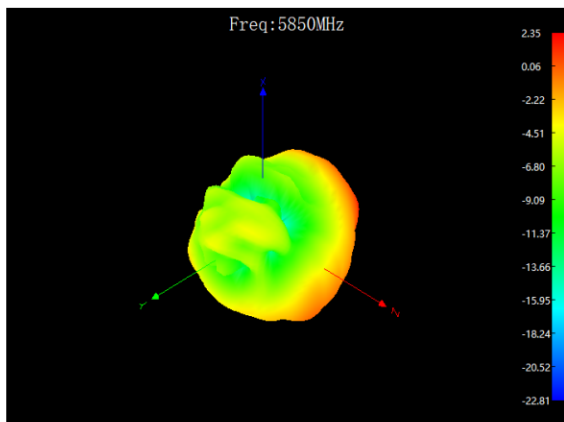
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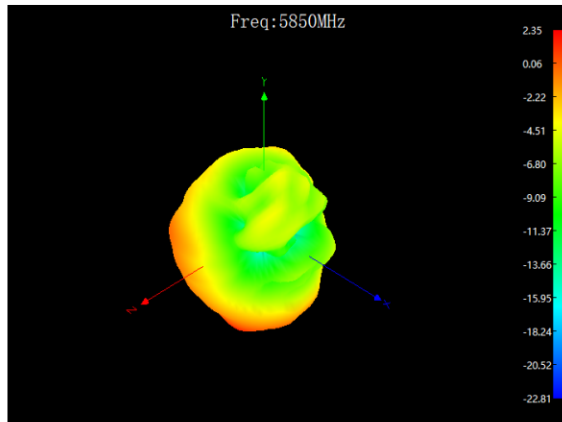
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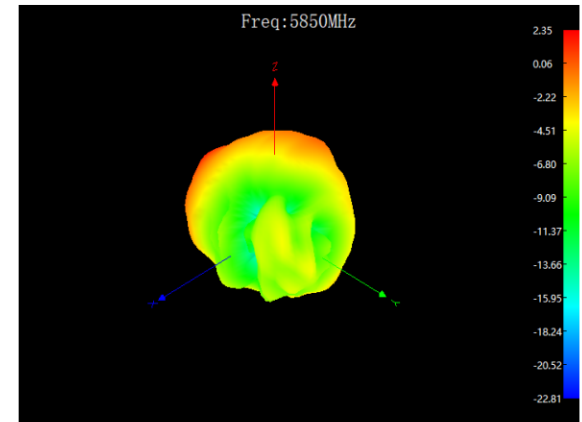
5850MHz



5850MHz



5850MHz



WIFI Antenna OTA Test Data:

Item	Measurement	Standard	Band	Channel	Frequency	Max	Min	Total
1	TRP	WIFI (AP)	WIFI_B (11M)	1	2412	20.24	1.79	14.84
2	TRP	WIFI (AP)	WIFI_B (11M)	6	2437	20.51	2.17	14.55
3	TRP	WIFI (AP)	WIFI_B (11M)	11	2462	20.8	3.83	15.14
4	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	1	2412	-76.92	-89.68	-86.78
5	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	6	2437	-76.33	-90.27	-86.7
6	TIS(EIRP)	WIFI (AP)	WIFI_B (11M)	11	2462	-76.67	-93.33	-87.91
7	TRP	WIFI (AP)	WIFI_G (54M)	1	2412	14.67	0.5	10.22
8	TRP	WIFI (AP)	WIFI_G (54M)	6	2437	13.54	0.18	10.18
9	TRP	WIFI (AP)	WIFI_G (54M)	11	2462	15.23	1.07	11.78
10	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	1	2412	-60.18	-75.72	-72.55
11	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	6	2437	-61.06	-76.31	-72.77
12	TIS(EIRP)	WIFI (AP)	WIFI_G (54M)	11	2462	-60.76	-75.87	-72.58
13	TRP	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	14.27	-0.76	10.17
14	TRP	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	14.84	-0.02	10.39
15	TRP	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	15.74	0.92	10.57
16	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-60.85	-72.79	-69.44
17	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	6	2437	-60.16	-72.98	-69.33
18	TIS(EIRP)	WIFI (AP)	WIFI_N_ISM (65M)	11	2462	-57.26	-71.92	-68.58
19	TRP	WIFI (AP)	WIFI_A (54M)	36	5180	15.52	-8.5	10.61
20	TRP	WIFI (AP)	WIFI_A (54M)	149	5745	14.79	-5.96	10.6
21	TRP	WIFI (AP)	WIFI_A (54M)	165	5825	16.47	-1.05	11.97
22	TIS(EIRP)	WIFI (AP)	WIFI_A (54M)	36	5180	-60.73	-77.81	-72.72
23	TIS(EIRP)	WIFI (AP)	WIFI_A (54M)	149	5745	-59.35	-76.34	-71.96
24	TIS(EIRP)	WIFI (AP)	WIFI_A (54M)	165	5825	-59.13	76.44	-71.34