

三合一天线规格书

3-in-1 antenna specification

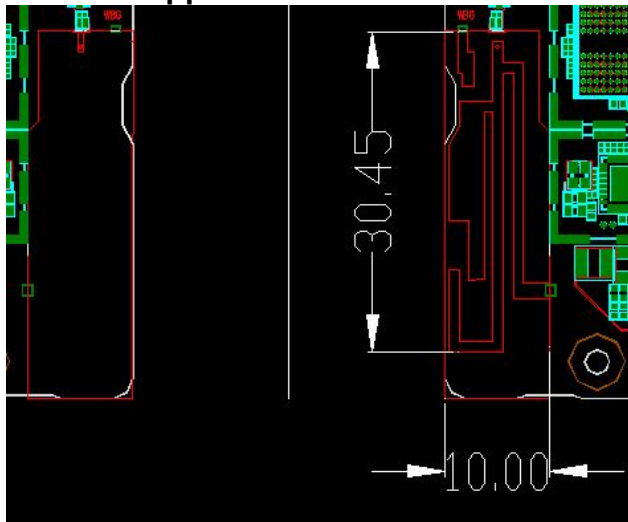
基本信息

General information

制造商 Manufacturer	Be-comfortable
天线型号 Model Name	N0211-GPS&WIFI&BT ant
日期 Date	2025.06.10
版本 Version	1.0
.....	

天线外观

Antenna Appearance



技术规格

Technical Specifications

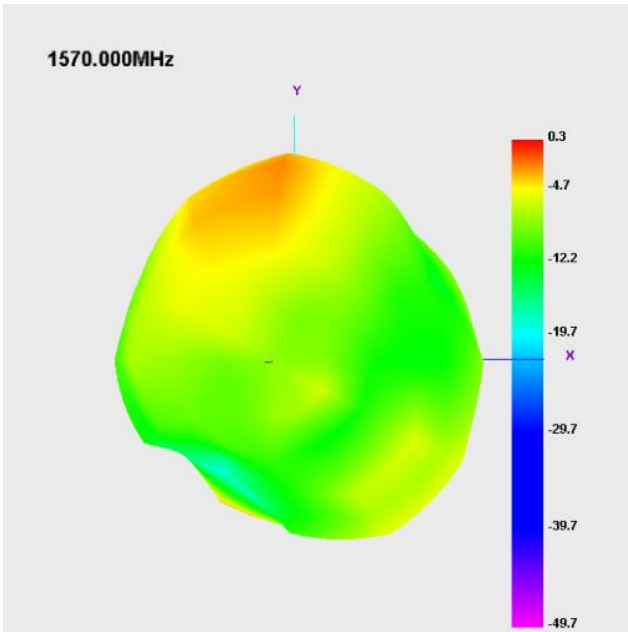
频率范围 Frequency Range	1575.42MHZ~2400-2500MHZ~5150-5850MHZ
天线类型 Antenna Type	PIFA
尺寸 Dimensions	30.45*10mm
阻抗 Impedance	50 ohm
最大增益 Maximum Gain	2.88dbi
驻波比 VSWR	≤3
.....	

Efficiency and gain

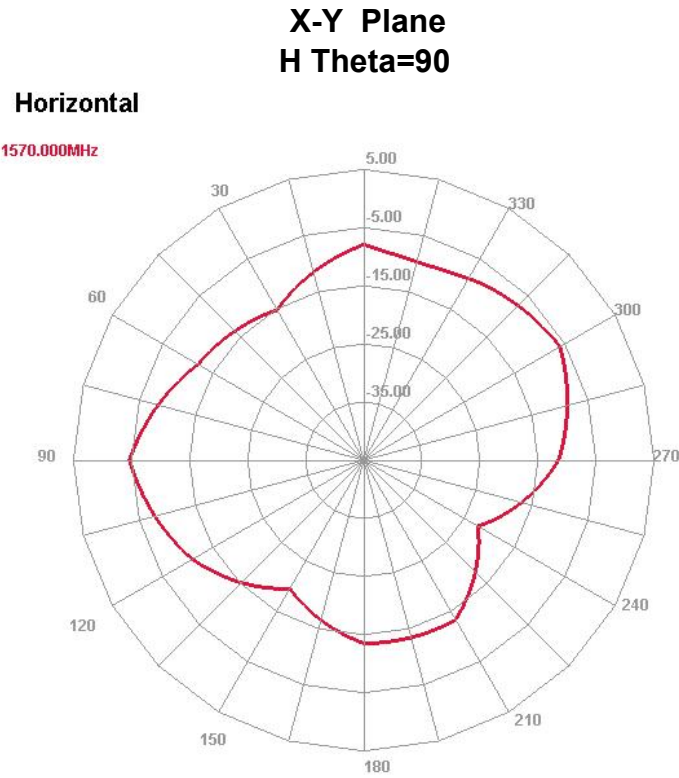
Frequency (MHz)	Gain (dB)	Efficiency (%)
1560	-0.14	26.87
1565	0.01	26.75
1570	0.29	26.33
1575	0.17	27.12
1580	0.02	26.02
1585	-0.21	25.43
1590	-0.39	25.05

Frequency (MHz)	Gain (dB)	Efficiency (%)	Frequency (MHz)	Gain (dB)	Efficiency (%)
2400	-0.03	27.76	5150	2.75	41.75
2410	0.03	28.09	5250	2.66	39.69
2420	0.26	29.64	5350	2.81	43.46
2430	0.68	31.62	5450	2.76	41.62
2440	0.79	32.7	5550	2.88	44.63
2450	0.69	33.28	5650	2.75	44.52
2460	0.94	32.43	5750	2.4	45.97
2470	0.19	31.91	5850	2.64	46.91
2480	0.33	30.87			
2490	0.11	29.94			
2500	0.17	27.46			

Free space 3D radiation pattern



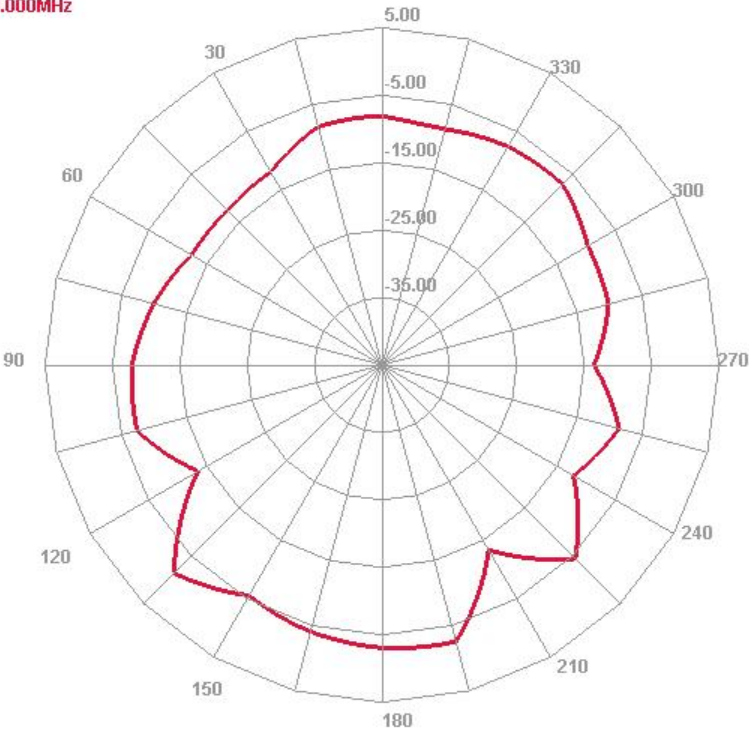
Free space 2D radiation pattern



X-Z Plane
V Phi=0

E1 Face

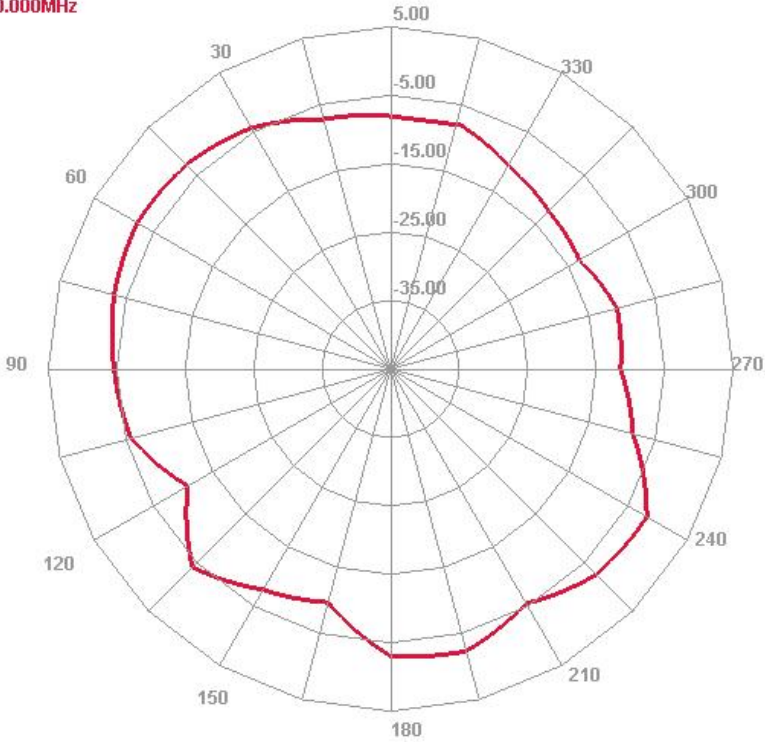
1570.000MHz

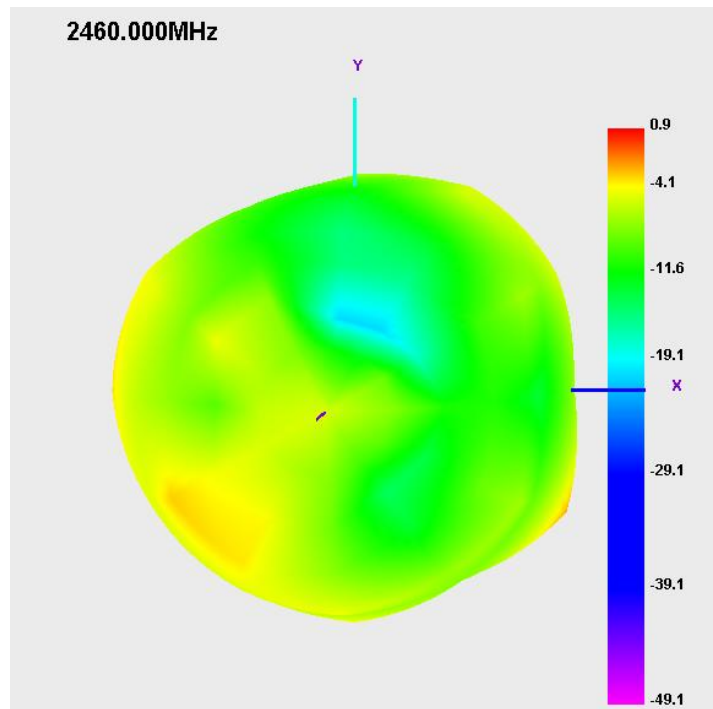


Y-Z Plane
V Phi=90

E2 Face

1570.000MHz

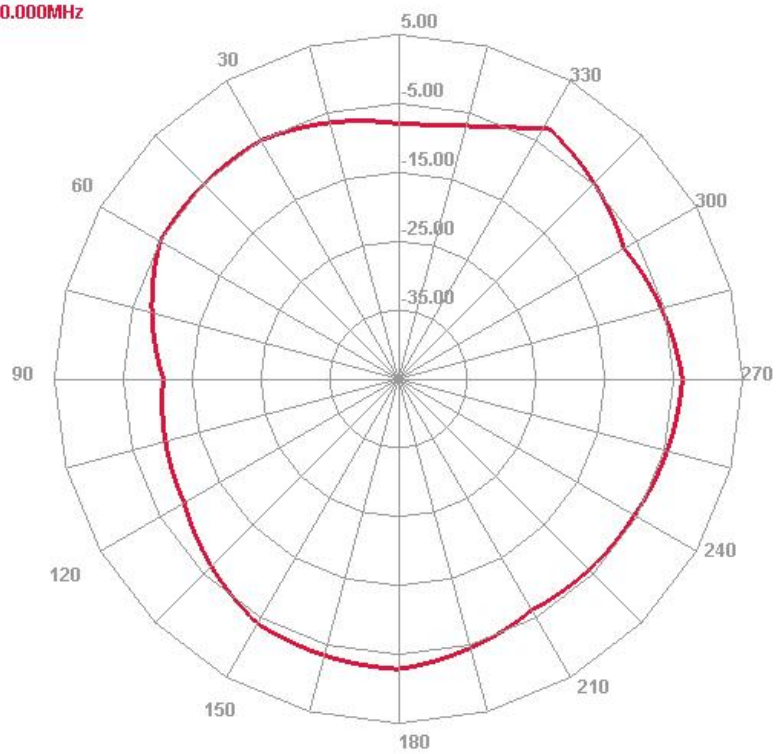




X-Y Plane
H Theta=90

Horizontal

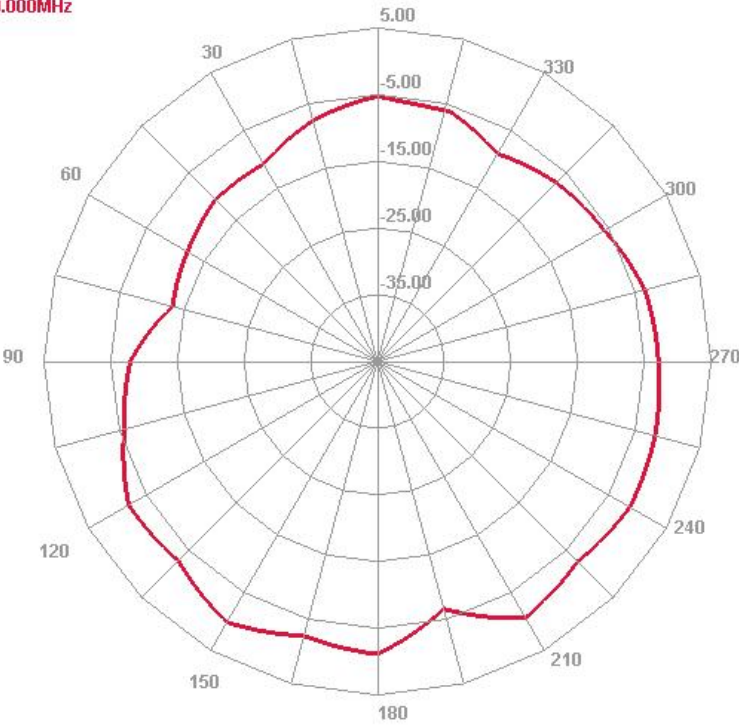
2460.000MHz



X-Z Plane
V Phi=0

E1 Face

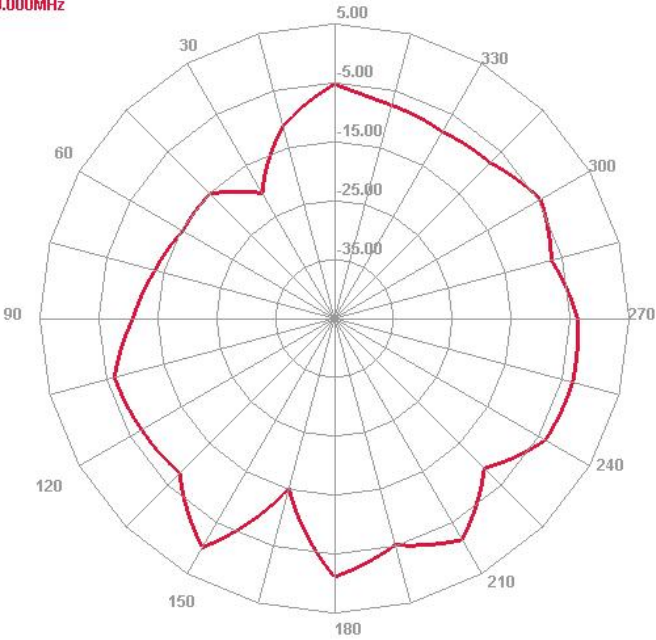
2460.000MHz

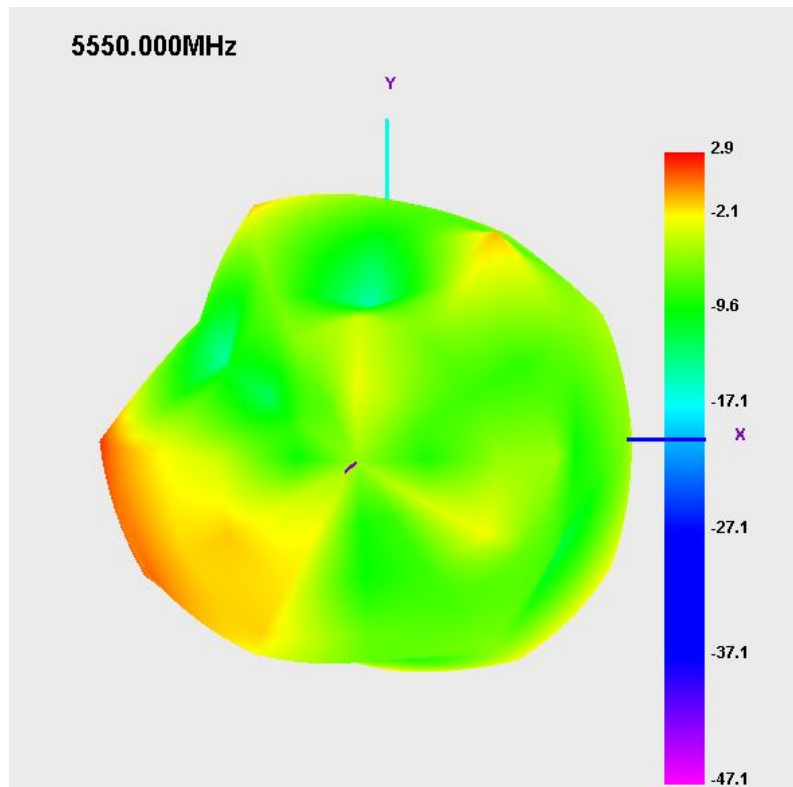


Y-Z Plane
V Phi=90

E2 Face

2460.000MHz

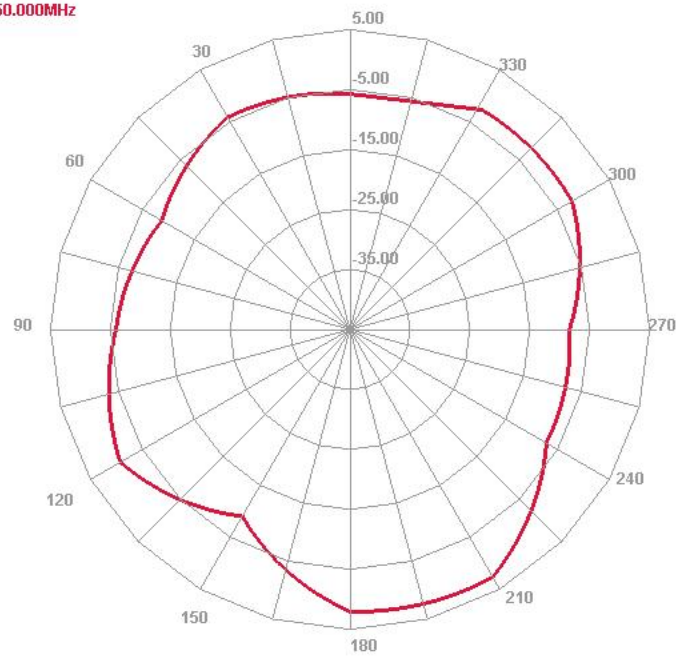




**X-Y Plane
H Theta=90**

Horizontal

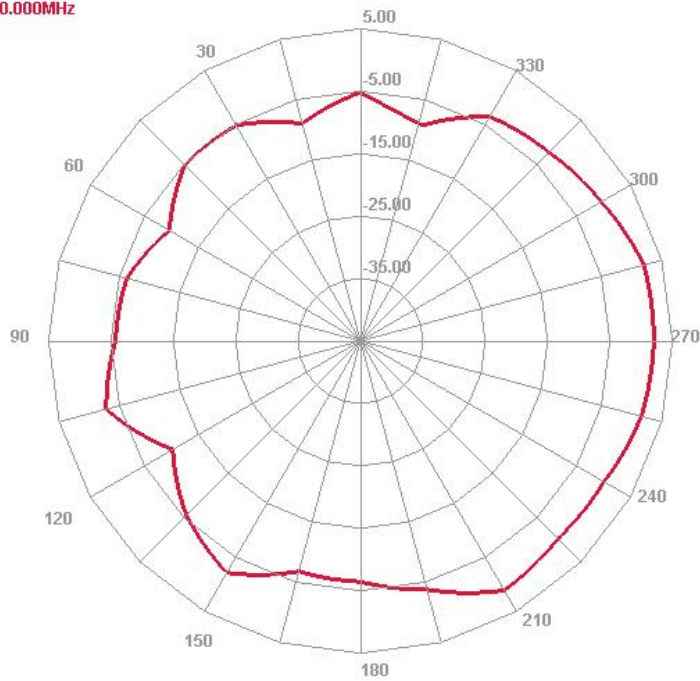
5550.000MHz



X-Z Plane
V Phi=0

E1 Face

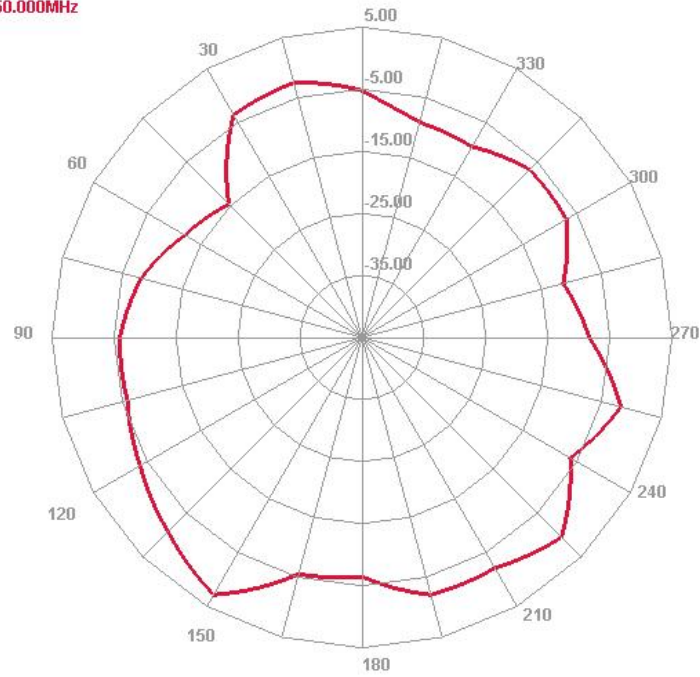
5550.000MHz



Y-Z Plane
V Phi=90

E2 Face

5550.000MHz



有源数据

OTA (TRP TIS)

WIFI OTA测试		WIFI OTA test	
测试频段 Test frequency	信道 Channel	TRP	TIS
WIFI 11b (11M)	1	13.41	-84.25
	7	13.55	-84.17
	13	13.25	-84.33
WIFI 11a (54M)	36	11.16	-72.26
	149	11.39	-72.17
	165	11.25	-72.22