



HUEIZHOU DONZHI ELECTRONICS CO.,LTD

FOR APPROVAL

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Customer	<u>HuaXin</u>	Weishi
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Part NO.

Part Name FPC Dual-frequency antenna

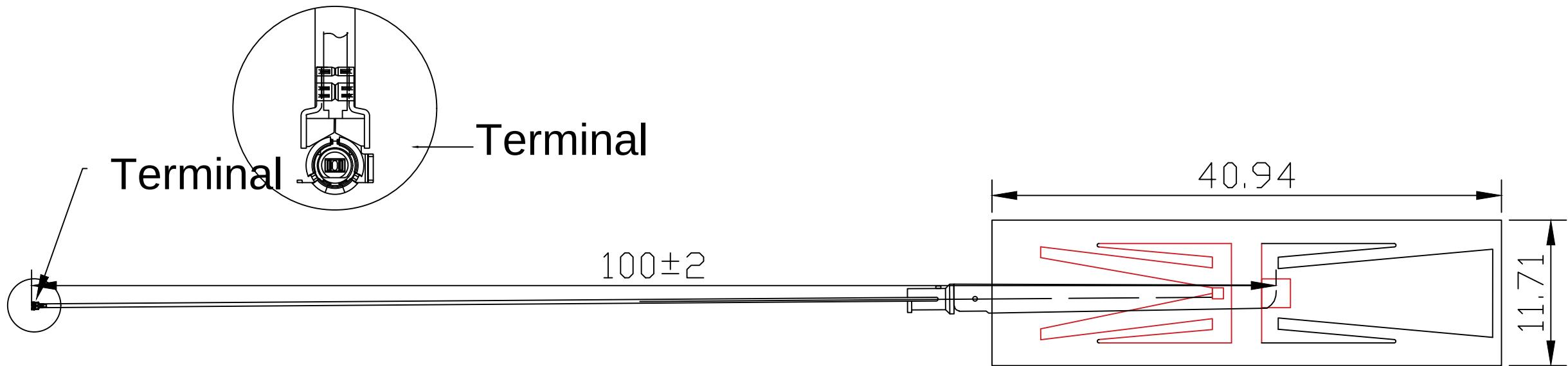
Pat Models 2.4G turn5.8G-3DB-100MM

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版本	变更内容	日期
V1.0	新发行	2024/8/30



技术要求:

- 1. 塑胶完好无损;
- 2. 裁线环剥整齐;
- 3. 拉力3kg以上;
- 4. 焊点光滑圆润;

没标注公差标示:

0~25	± 0.05
25.01~30	± 0.10
50.01~100	± 0.15
100.01~200	± 0.25
200.01~300	± 0.30

产品名称	双频FPC内置天线	核准		惠州市东智电子有限公司		
频率	2400~2500MHZ	审核	罗谷健			
阻抗	50 Ω	制作	刘浩桦	视图		
驻波比	≤1.5dB	版本	V1.0	日期	2024/8/30	
增益	3DBI	比例	1:1	页数	1页 共1页	
外壳材质	ABS	路径		单位	M	M

Passive test data of WiFi antenna

Frequency(MHz)	Efficiency(%)
2400	46.31
2410	45.12
2420	42.41
2430	40.15
2440	39.59
2450	38.86
2460	38.43
2470	35.97
2480	32.67
2490	31.93
2500	32.42

Frequency(MHz)	Gain(dBi)
2400	2.65
2410	2.57
2420	2.13
2430	1.79
2440	1.99
2450	1.89
2460	1.68
2470	1.37
2480	0.77
2490	0.51
2500	0.78

Passive test data of WiFi antenna

Efficiency

Frequency(MHz)	Efficiency(%)	Frequency(MHz)	Efficiency(%)
5000	37.65	5500	22.15
5050	29.53	5550	30.01
5100	23.41	5600	38.66
5150	17.87	5650	45.91
5200	14.53	5700	52.37
5250	10.64	5750	54.03
5300	8.47	5800	52.85
5350	8.16	5850	53.47
5400	10.86	5900	56.99
5450	15.63	5950	58.51

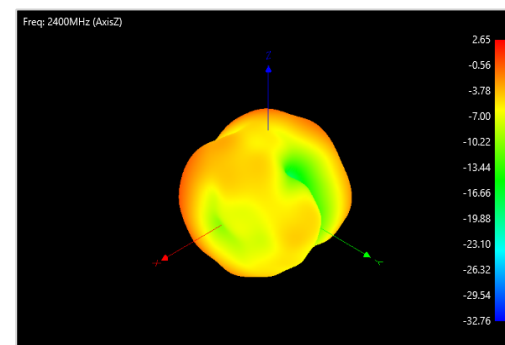
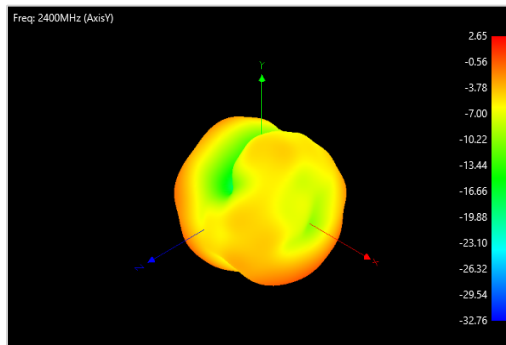
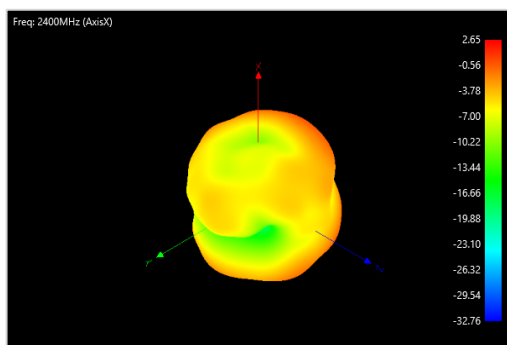
Passive test data of WiFi antenna

Gain

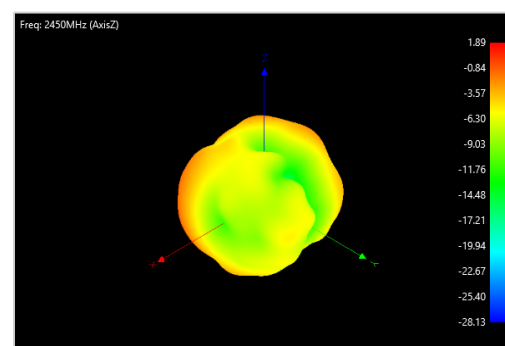
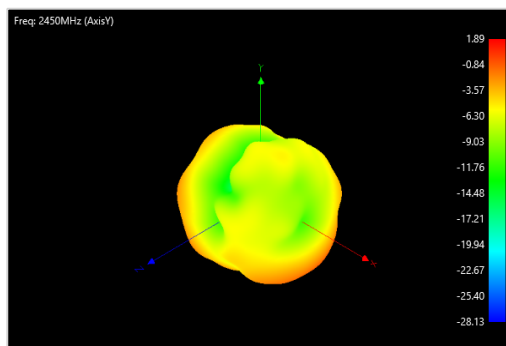
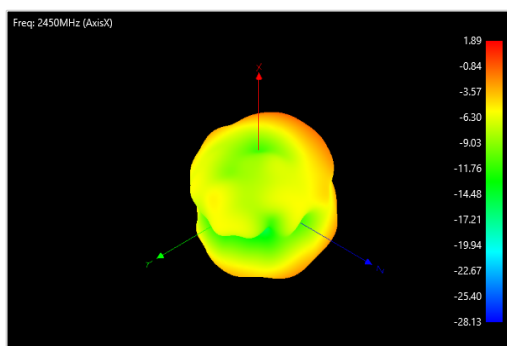
Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
5000	-1.37	5500	-3.43
5050	-1.76	5550	-2.82
5100	-2.78	5600	-1.74
5150	-3.69	5650	-0.58
5200	-4.38	5700	0.31
5250	-5.94	5750	0.62
5300	-6.89	5800	0.28
5350	-7.27	5850	-0.1
5400	-5.88	5900	-0.03
5450	-4.71	5950	-0.01

3D diagram of the antenna

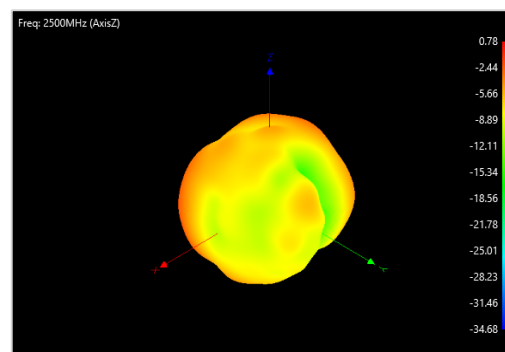
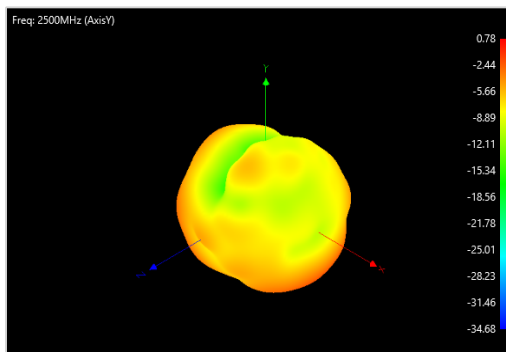
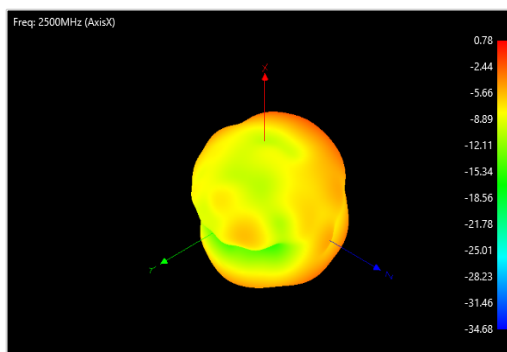
2.4G



2.45G

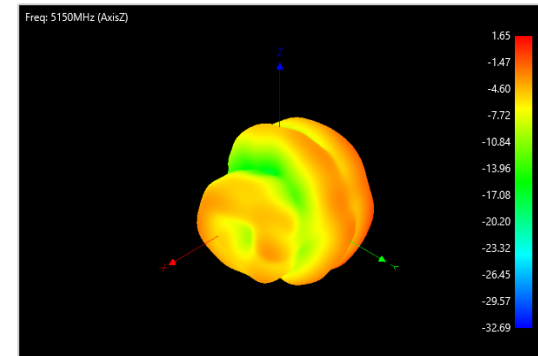
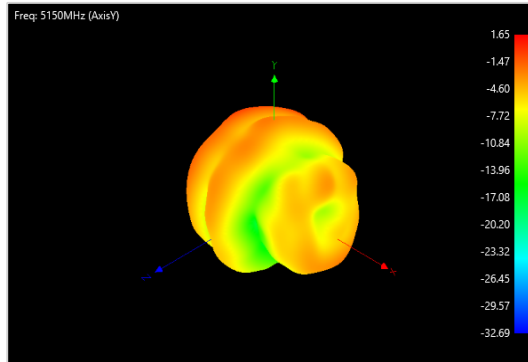
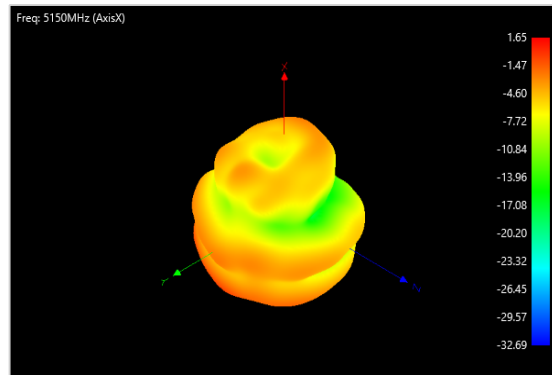


2.5G

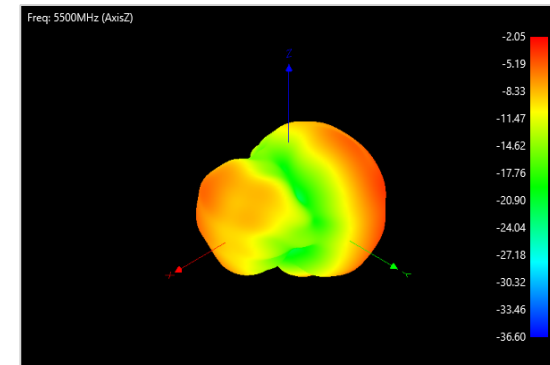
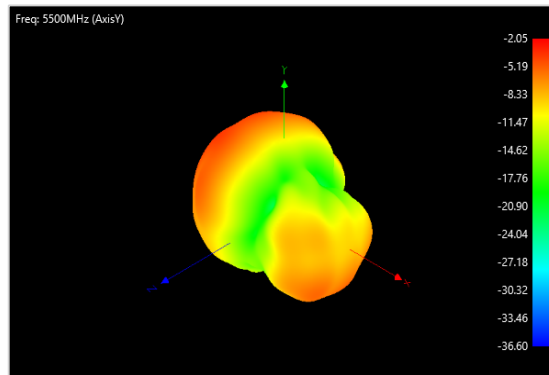
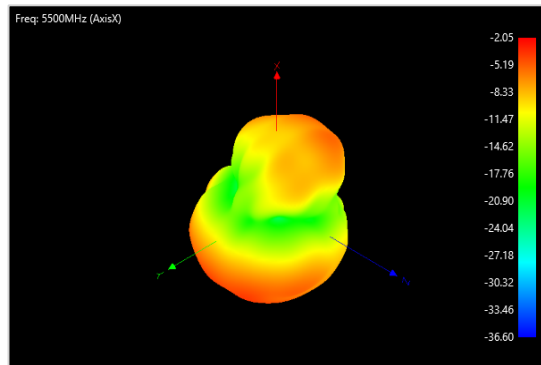


3D diagram of the antenna

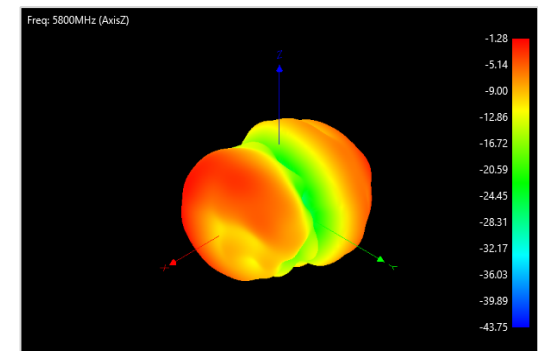
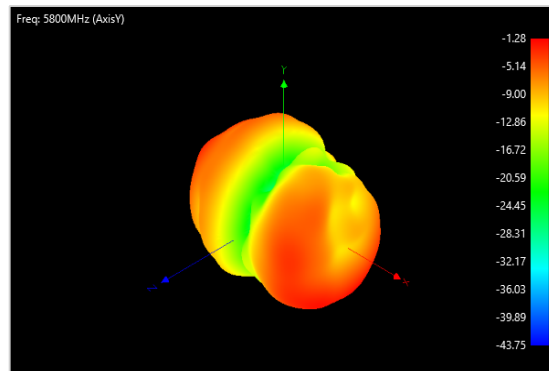
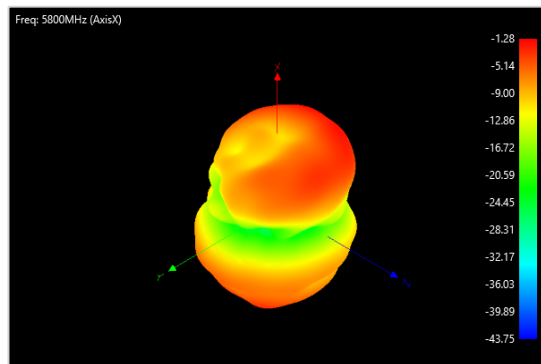
5.15G



5.5G



5.8G





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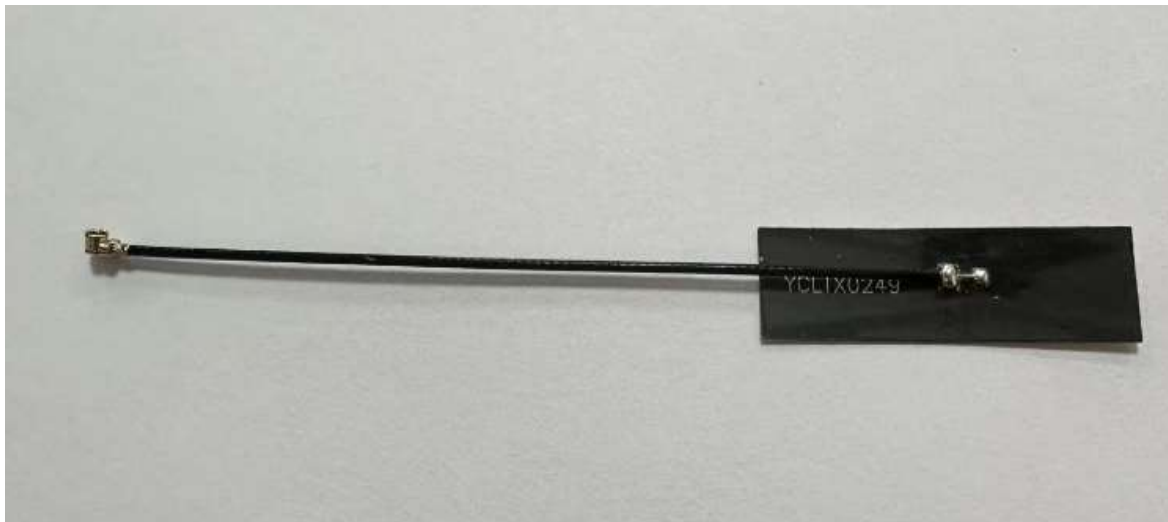
一： Product parameters

Product Name: FPC has a built-in antenna

Mechanical performance index			
Size:	12*41*100MM	Line length:	100M
Materials:	1. FPC 2. 113 is on the same axis 3.IPEX first-generation terminal	Colour:	black
		Working temperature:	-20°C ± 85°C

Electrical performance index			
Frequency range:	2400~2500MHZ	Polarization mode:	Vertical
Impedance:	50 Ω	Radiation direction:	Omnidirectional
Stationed in Bobby:	≤ 1.5	Working voltage:	5V
Gain:	2.65 dBi	Bandwidth:	100MHZ

二： Product picture



THE END