



HUEIZHOU DONZHI ELECTRONICS CO.,LTD

FOR APPROVAL

Customer: Dongguan Zhiyun IOT Co., Ltd.

Part NO.:

Part Name: FPC built-in antenna

Pat Models:

Manufacturer Confirmation Column			
Confirmation seal	Prepared by	Reviewed by	Approved by
	LIU Haohua	LUO Gujian	LU Yongxing

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WiFi Antenna Passive Test Data

Frequency(MHz)	Efficiency(%)		Frequency(MHz)	Gain(dBi)
2400	10.08		2400	1.17
2410	10.53		2410	1.2
2420	11.4		2420	1.45
2430	12.53		2430	1.65
2440	13.39		2440	2.2
2450	14.05		2450	1.71
2460	14.52		2460	1.47
2470	14.98		2470	0.5
2480	16.62		2480	-0.67
2490	19.09		2490	-1.25
2500	20.77		2500	-2.05

WiFi Antenna Passive Test Data

Efficiency

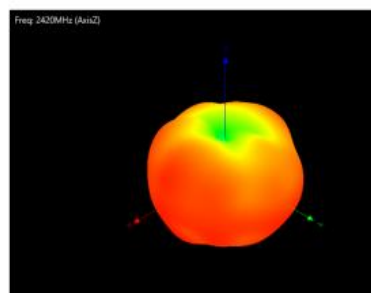
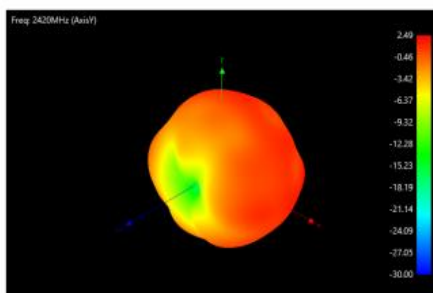
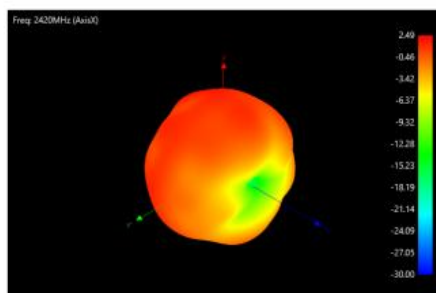
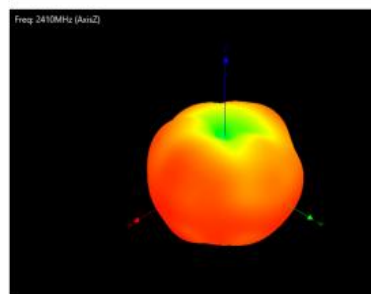
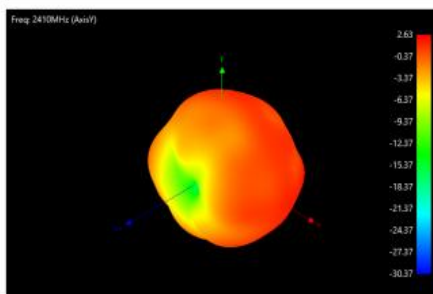
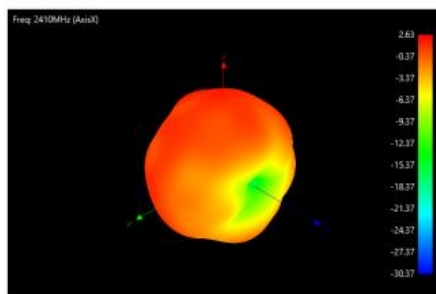
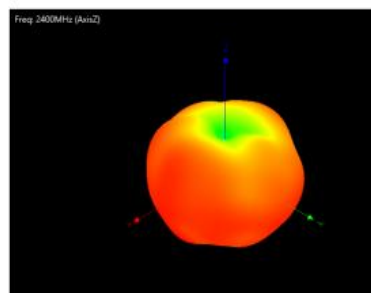
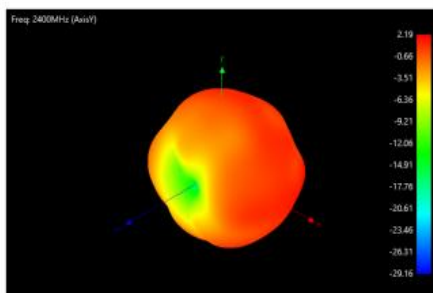
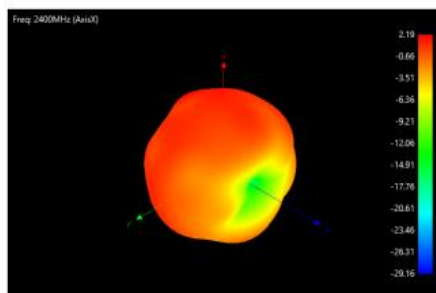
Frequency(MHz)	Efficiency(%)	Freq(MHz)	Efficiency(%)	Freq(MHz)	Efficiency(%)
5000	38.74	5000	47.5	5000	21.78
5050	38.47	5050	43.94	5050	20.34
5100	39.71	5100	45.82	5100	21.07
5150	42.63	5150	46.27	5150	21.41
5200	48.24	5200	46.83	5200	22.43
5250	50.14	5250	49.29	5250	68.44
5300	48.03	5300	56.35	5300	71.25
5350	40.33	5350	77.23	5350	76.64
5400	32.24	5400	59.68	5400	73.99
5450	26.05	5450	75.8	5450	74.8
5500	22.96	5500	72.1	5500	68.14

WiFi Antenna Passive Test Data

Gain

Frequency(MHz)	Gain(dBi)	Frequency(MHz)	Gain(dBi)
5000	1.17	5500	-2.05
5050	1.2	5550	-1.91
5100	1.45	5600	-2.16
5150	1.65	5650	-3.04
5200	2.2	5700	-2.29
5250	1.71	5750	-1.98
5300	1.47	5800	-1.28
5350	0.5	5850	-0.66
5400	-0.67	5900	0.03

3D drawing





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1. Product Parameters Product Name: 2.4G FPC built-in antenna

Mechanical Performance Indicators			
Size:	36*9.1mm	Wire length:	80mm
Material:	FPC	Color:	black
Terminal:	IPEX Gen-I	Operating temperature:	-40°C±85°C

Electrical Performance Indicators			
Frequency range:	2400~2500MHZ	Polarization type:	Vertical
Impedance:	50Ω	Radiation direction:	Omni-directional
Standing wave ratio:	≤1.6	Operating voltage:	5V
Gain:	2.2DBI	Bandwidth:	100MHZ

2. Product Picture

