

DONZHI

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
	Zenghongta	Luoqijian	Luyongxiny

Customer Recognition Column			
Recognition seal	Tested by	Reviewed by	Approved by

Address: No. 17 Aipo Tianyuan Road, Hengli Town, Huicheng District, Huizhou City, Guangdong Province

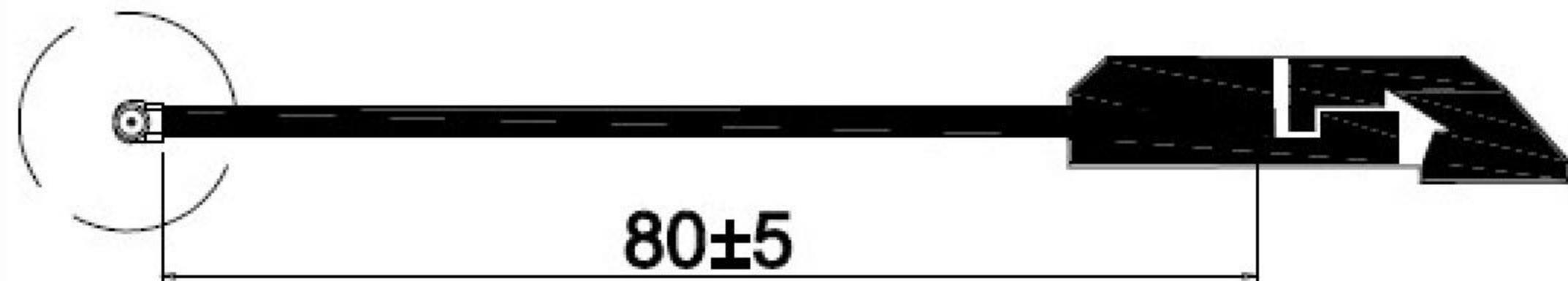
Tel.: 0752-3886801 13823769366

E-mail: hzdonzhi@163.com

Rev.	Change	Date
V1.0	First edition	2019/10/28

Terminal

## 端子



Indication of unmarked tolerances:		Product Name	2.4G cultellate FPC built-in antenna	Approved by		Huizhou Donzhi Electronics Co.,Ltd	
		Frequency	2400~2500MHZ	Reviewed by	LUO Gujian		
0~25	Impedance	Impedance	Prepared by	Prepared by	LIU Haohua	View	
25.01~50	Standing Wave Ratio	Standing Wave Ratio	≤1.2dB	Rev.	V1.0	Date	2019-10-29
50.01~100	±0.15	Gain	2DBI	Scale	1:1	Page	1/1
100.01~200	±0.25	Enclosure Material	TPE、 ABS	Path			Unit <b>MM</b>
200.01~300	±0.30						

## 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	2.03
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

## WiFiAntenna Passive Test Data

### Efficiency

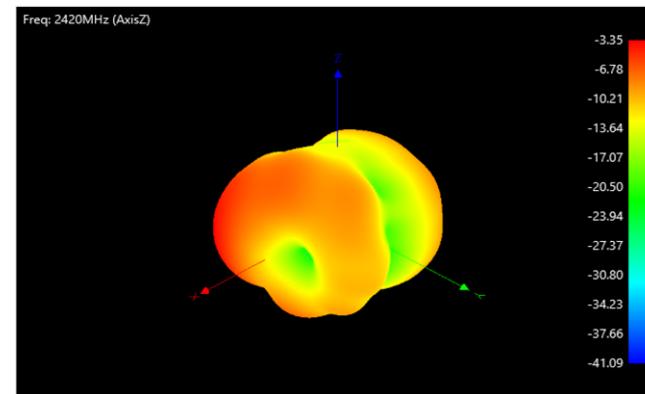
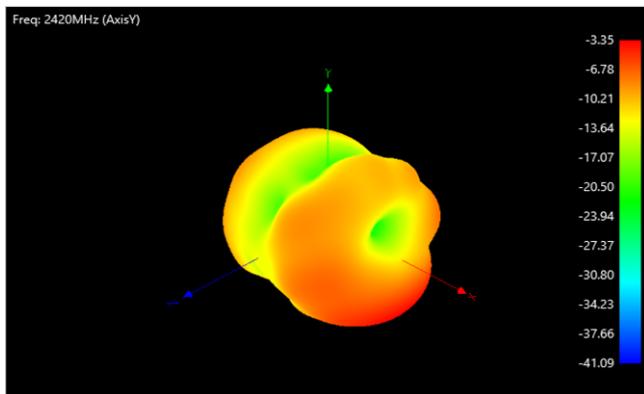
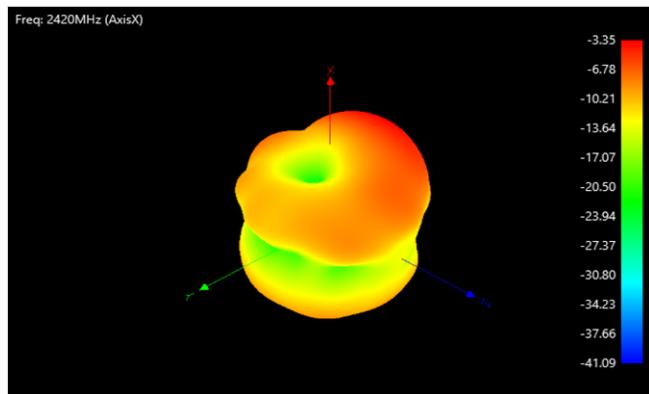
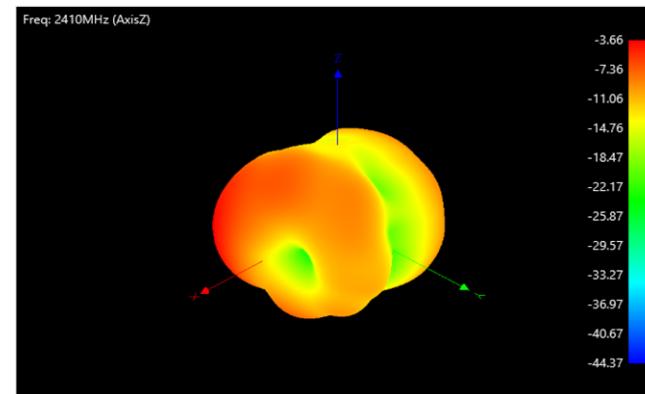
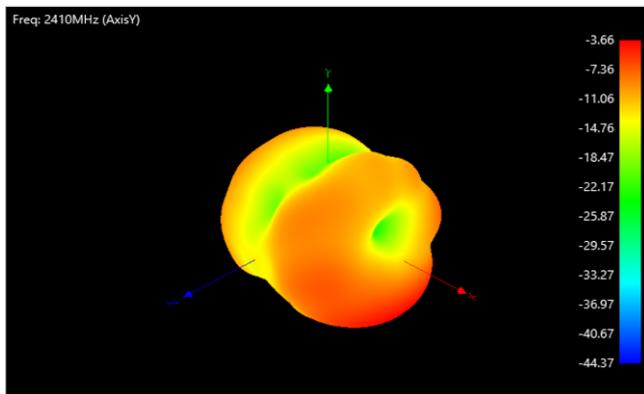
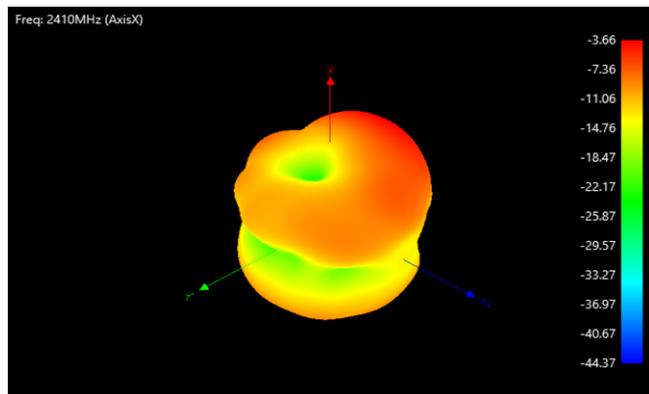
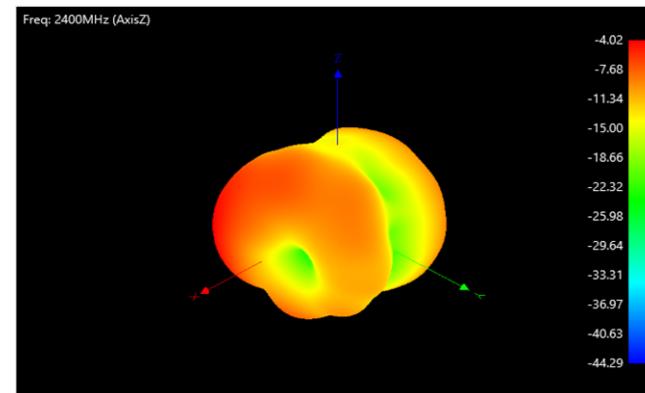
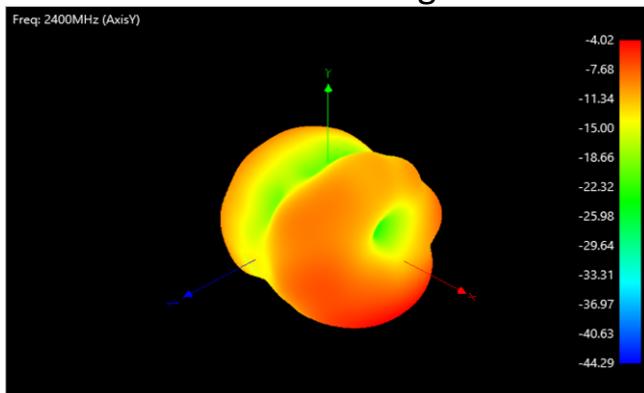
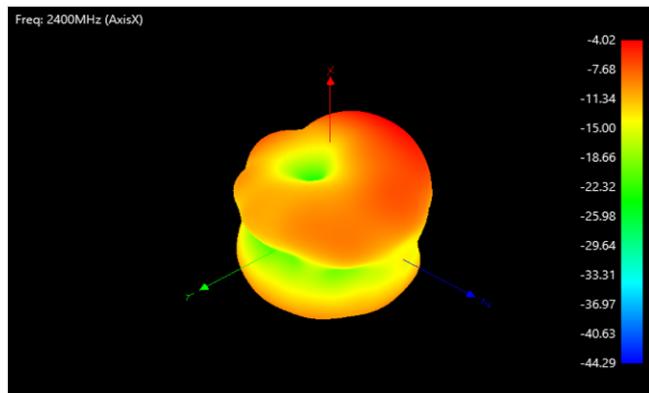
Frequency(MHz)	Efficiency(%)	Freq(MHz)	Efficiency(%)	Freq(MHz)	Efficiency(%)
5000	38.74	5000	47.5	5000	21.78
5050	38.47	5050	43.94	5050	20.34
5100	39.71	5100	45.82	5100	21.07
5150	42.63	5150	46.27	5150	21.41
5200	48.24	5200	46.83	5200	22.43
5250	50.14	5250	49.29	5250	68.44
5300	48.03	5300	56.35	5300	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

## WiFiAntenna 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:	2DBI	Bandwidth:	100MHZ

**2. Product Picture**