

Antenna Specification

• **Manufacturer: Shenzhen PIPA antenna design Co.,LTD.**

Address of manufacturer : Junxiangda Office Area A 2nd Floor Building
A,Zhongshan Road No. 9,Nanlian Community,Nantou Street, Nanshan District,
Shenzhen City, Guangdong Province

1.1 Basic Specifications

No.	Specification	Descriptions	Notes
1	Antenna model	<u>PF644-X10-WIFI-A2</u>	
2	Antenna type	WIFI Antenna-PIFA	
3	Operation Frequency	WIFI:2.4-2.48GHz 5.15-5.85GHz	
4	Impedance	50ohm	
5	MAX Gain	WIFI:2.4G: 2.16dBi, 5G:4.91dBi	
6	Efficiency	$\geq 30\%$	
7	Return Loss	≤ -12	
8	Material quality	FPC	
9	Connector Type	IPEX-1	
10	Cable length (mm)	110mm	
11	Cable Colour	Black	

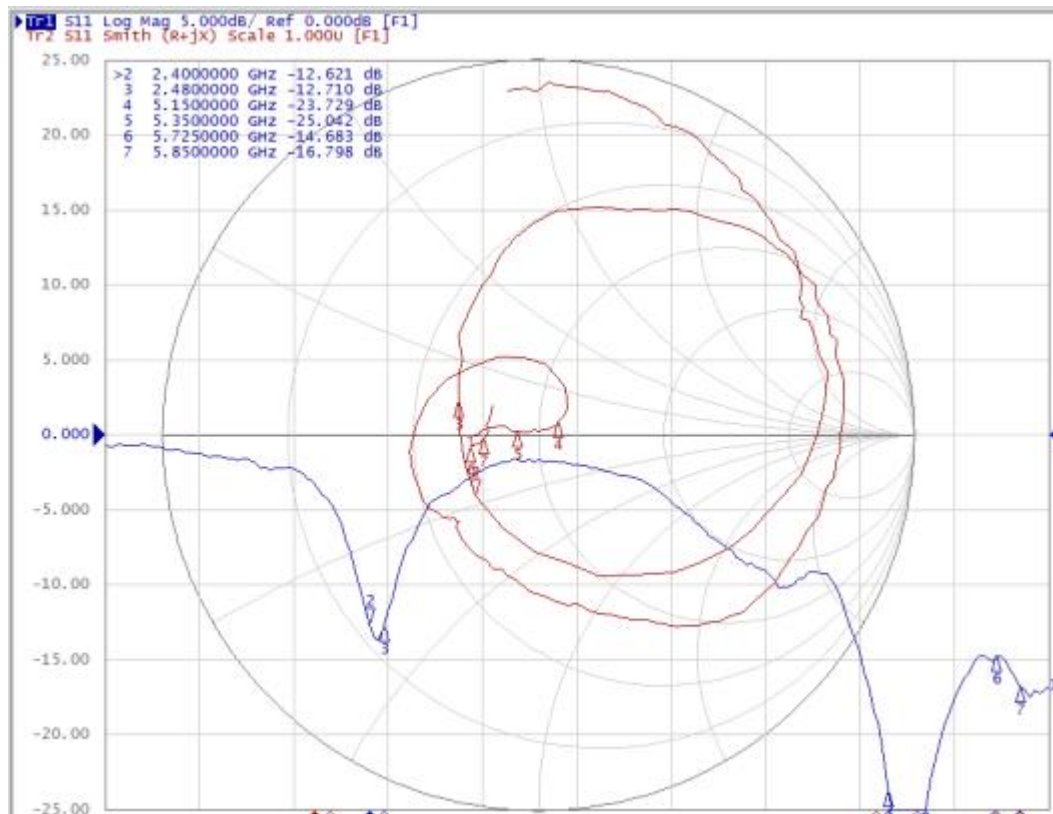
1.2 radiation patter

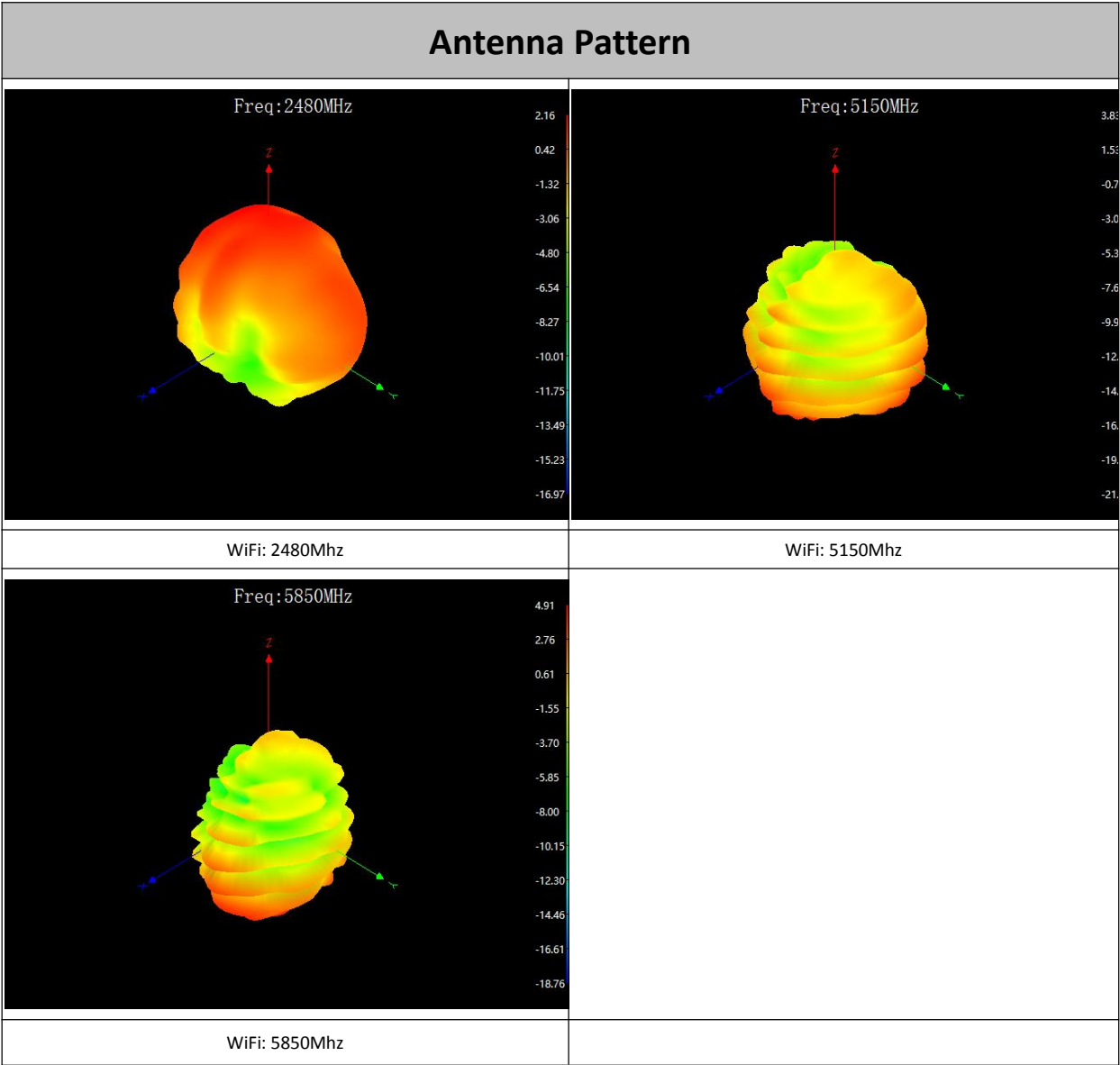
Antenna radiation efficiency:

Frequency/MHz	MaxGain/dBi	Efficiency / dB	Efficiency / %
2400	1.3	-4.97	31.84
2410	1.23	-5.36	29.11
2420	1.49	-4.76	33.42
2430	1.61	-5.15	30.55
2440	1.62	-4.41	36.22
2450	1.89	-4.04	39.45
2460	1.8	-4.17	38.28
2470	2.05	-4.12	38.73
2480	2.16	-4.11	38.75

Frequency/MHz	MaxGain/dBi	Efficiency / dB	Efficiency / %
5150	3.83	-3.39	45.81
5200	3.44	-3.36	46.13
5250	3.84	-3.25	47.32
5300	3.72	-3.34	46.34
5350	4.15	-3.35	46.24
5400	4.18	-3.3	46.77
5450	4.16	-3.46	45.08
5500	4.1	-3.54	44.26
5550	3.63	-3.91	40.64
5600	3.81	-3.77	41.98
5650	3.83	-3.71	42.56
5700	3.94	-3.99	39.9
5750	4.02	-3.87	41.02
5800	4.2	-3.79	41.78
5850	4.91	-3.86	41.11

S11:





1.3Antenna Size

