

SPECIFICATION

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 FPC antenna

Product specification

Customer		Frequency	2400——2500MHz 5150——5835MHZ
R F design	XIAO BIN	Version	
Technical director	ANDY	date	2026-04-20

Customer confirmation:

Whether the assembly meets your company's requirements: ☐OK ☐NG

Directory

Cover	1
1、 Directory.....	2
2、 Product pictures	3
3、 S11 data	4
4、 Antenna test data (gain, efficiency, apple chart).....	4
5、 Product structure drawing.....	9

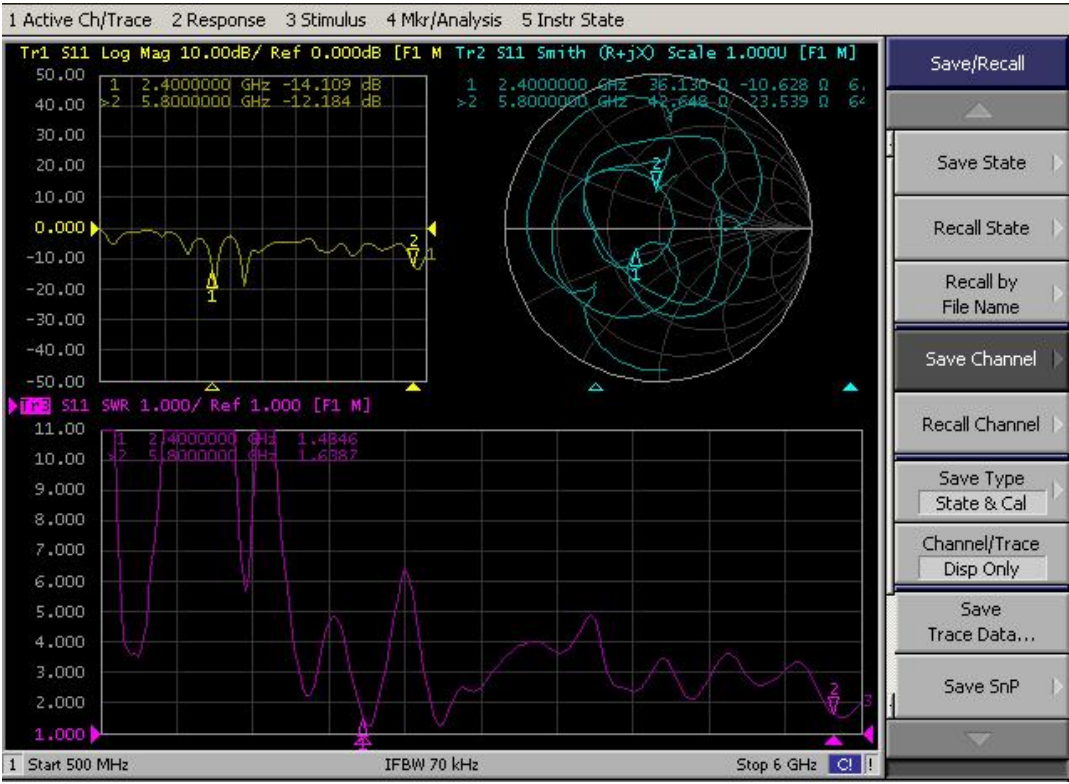
1、Product pictures



2、Product parameters

Product testing parameters			
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHZ 5150-5835MHZ	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐射方向	Omnidirectional
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	5W
增益(Gain)	1.45/3.43 dBi	带宽 (Bandwidth)	100/600 MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	52.50*11.18 $\pm$ 0.15mm	外壳颜色(ANT Color)	black
连接器型号 (Connector)	IPEX 4 代	引线长度(Cable Length)	220 $\pm$ 3 mm
外壳材料 Radome Material	FPC		
工作温度 (Working Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C	存放温度 (Limit Temperature)	-40 $^{\circ}$ C--+85 $^{\circ}$ C

3. VSWR, Return loss and Smith data

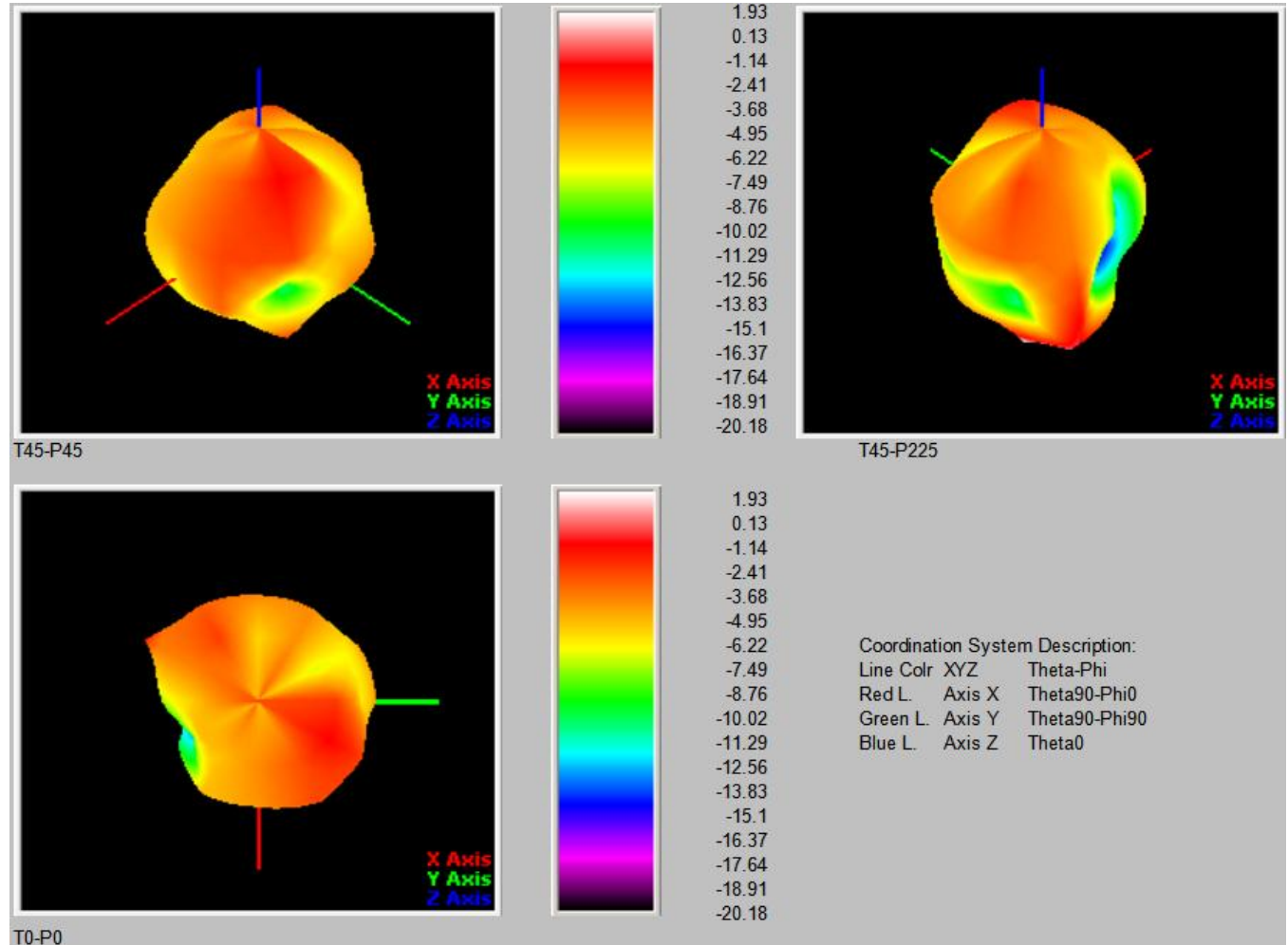


4、 Antenna test data (gain, efficiency, apple chart)

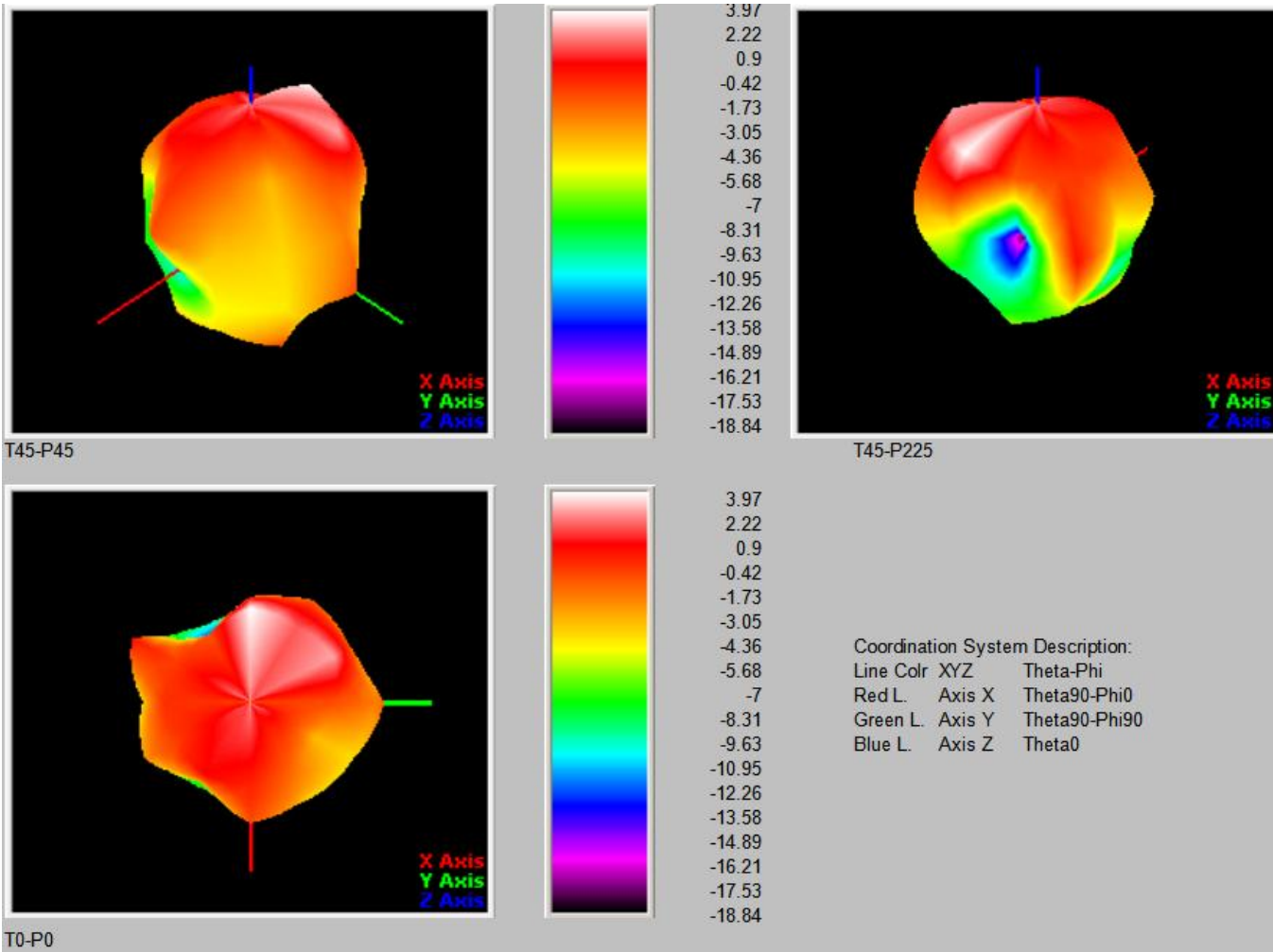
频率 (MHz)	增益 (Gain)	效率 (%)
2400	1.93	42.20%
2410	0.54	32.00%
2420	0.29	33.90%
2430	-0.54	28.60%
2440	-0.26	30.00%
2450	-0.24	29.10%
2460	-0.37	30.20%
2470	-0.32	32.10%
2480	-1.17	30.60%
2490	-0.05	35.80%
2500	-0.31	33.00%

5200	2.75	34.10%
5220	2.85	35.00%
5240	2.14	33.10%
5260	2.59	36.10%
5280	3.19	38.50%
5300	3.15	34.50%
5320	2.93	41.00%
5340	2.92	39.50%
5360	3.28	43.00%
5380	3.45	44.80%
5400	3.18	39.00%
5420	3.26	48.00%
5440	3.63	49.10%
5460	3.72	42.90%
5480	3.74	51.60%
5500	3.59	53.60%
5520	3.48	52.20%
5540	3.35	46.60%
5560	3.86	48.20%
5580	2.1	46.40%
5600	2.43	40.50%
5620	2.35	45.90%
5640	3.19	49.00%
5660	3.06	46.20%
5680	3.97	46.00%
5700	2.92	57.30%
5720	3.83	60.50%
5740	3.41	56.10%
5760	2.58	49.60%
5780	1.96	40.20%
5800	3.44	48.00%

(1)Passive -Freq2400.00MHZ



(2) Passive -Freq5680.00MHZ



5、Product structure drawing

