

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	2023-12-14

Customer confirmation:

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

Confidentiality requirements

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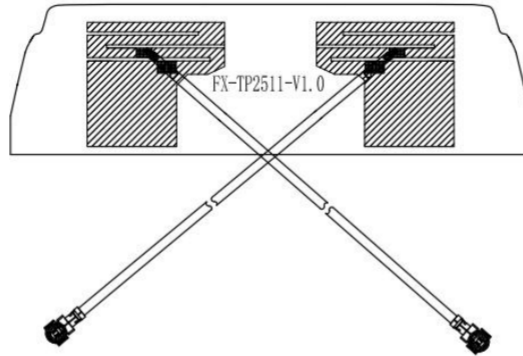
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1、Product pictures



2、Product parameters

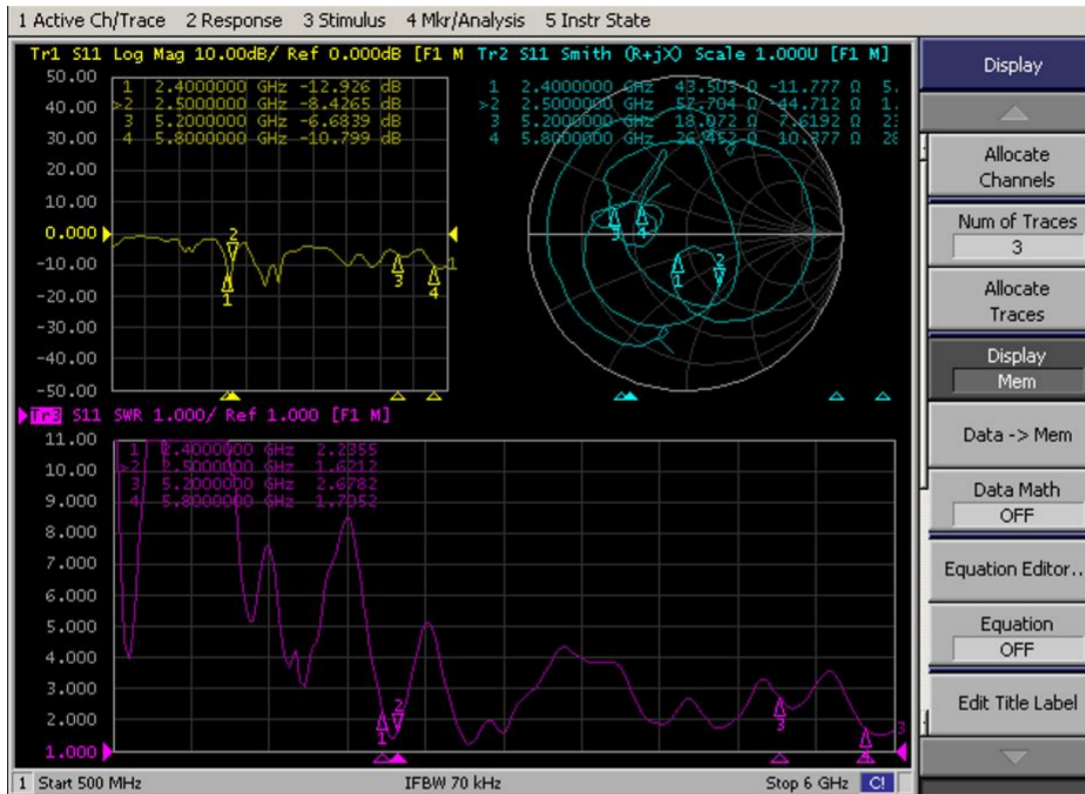
Product testing parameters			
产品名称(Name)	2.4G -5.8G WIFI	产品型号(Model Type)	FX-TP2511-1.13B-175-4
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5150-5835MHz	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐射方向	Omnidirectional
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	1.44/1.89dBi	带宽 (Bandwidth)	100/685MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	65.10*18.75 $\pm$ 0.15 mm	外壳颜色(ANT Color)	black
连接器型号 (Connector)	IPEX 4D	引线长度(Cable Length)	175 $\pm$ 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

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3. VSWR, Return loss and Smith data



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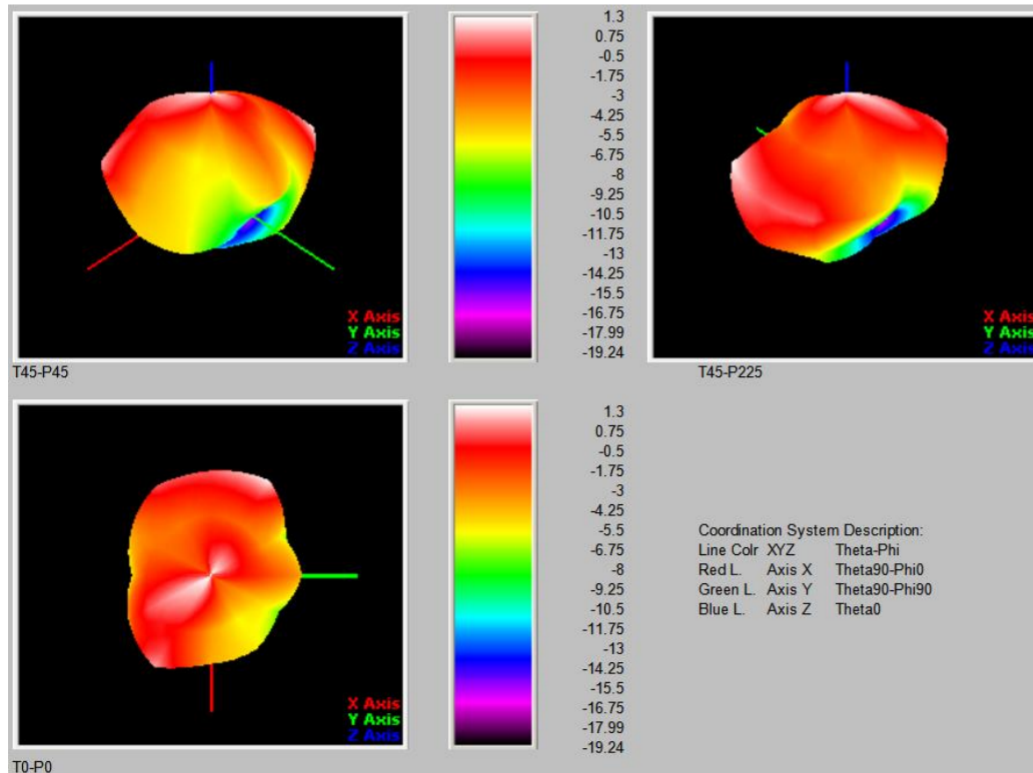
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4、Antenna test data (gain, efficiency, apple chart)

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.10	34.2%
2	2410.0	1.30	37.0%
3	2420.0	1.44	38.7%
4	2430.0	1.21	40.3%
5	2440.0	1.26	42.0%
6	2450.0	1.30	42.3%
7	2460.0	1.21	41.5%
8	2470.0	1.24	40.8%
9	2480.0	1.15	38.5%
10	2490.0	1.19	36.1%
11	2500.0	1.40	34.3%

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	5200.0	0.77	34.9%
2	5230.0	0.47	31.7%
3	5260.0	0.75	30.9%
4	5290.0	0.99	31.7%
5	5320.0	1.80	34.8%
6	5350.0	1.44	34.9%
7	5380.0	1.26	38.5%
8	5410.0	1.24	37.4%
9	5440.0	1.55	39.7%
10	5470.0	1.03	38.7%
11	5500.0	1.52	40.9%
12	5530.0	1.01	37.2%
13	5560.0	1.62	36.8%
14	5590.0	1.18	35.8%
15	5620.0	1.89	35.5%
16	5650.0	1.02	38.5%
17	5680.0	1.10	41.2%
18	5710.0	1.54	43.4%
19	5740.0	1.55	49.9%
20	5770.0	1.56	40.1%
21	5800.0	1.03	41.8%

Passive -Freq2450.00MHZ

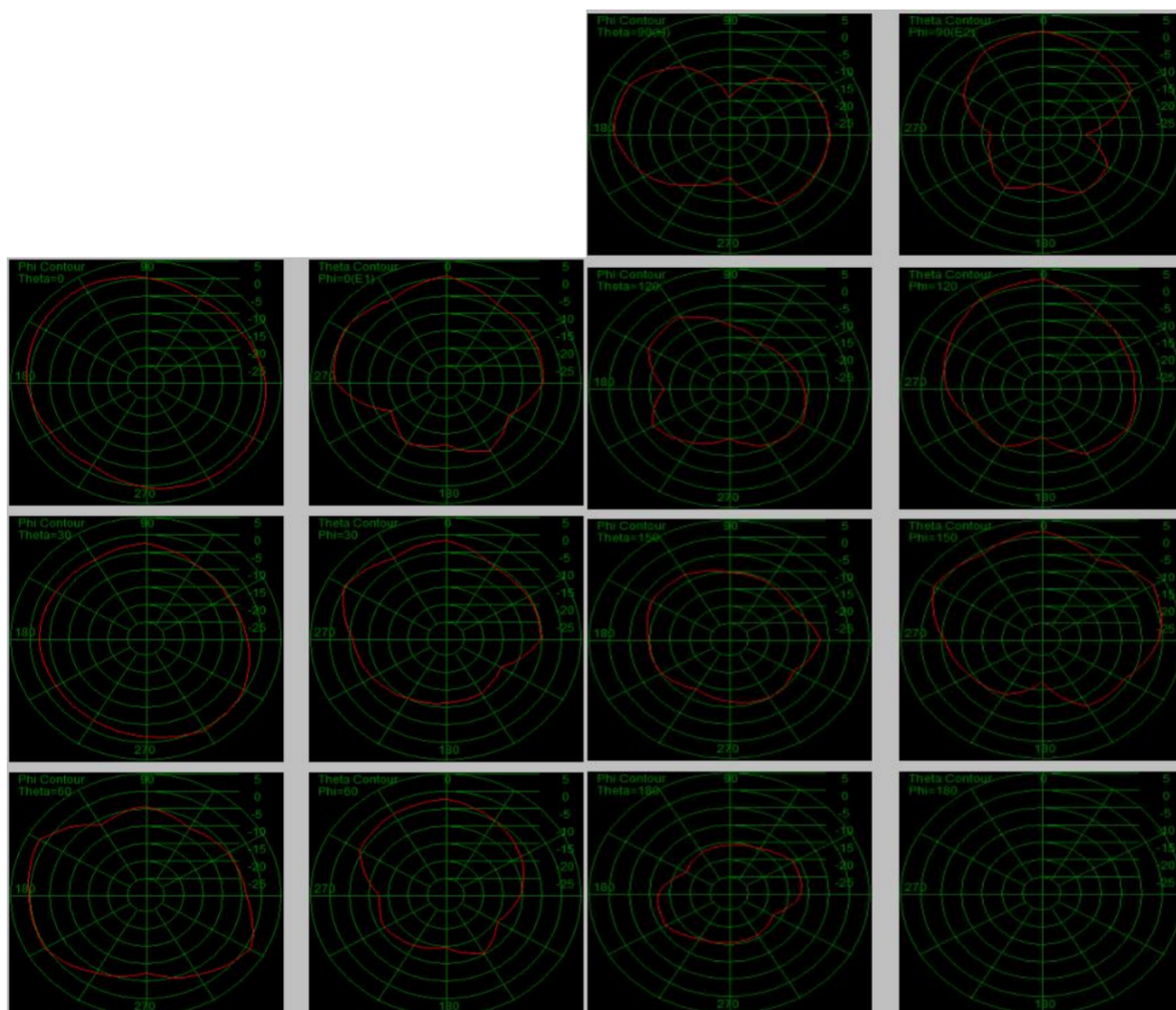


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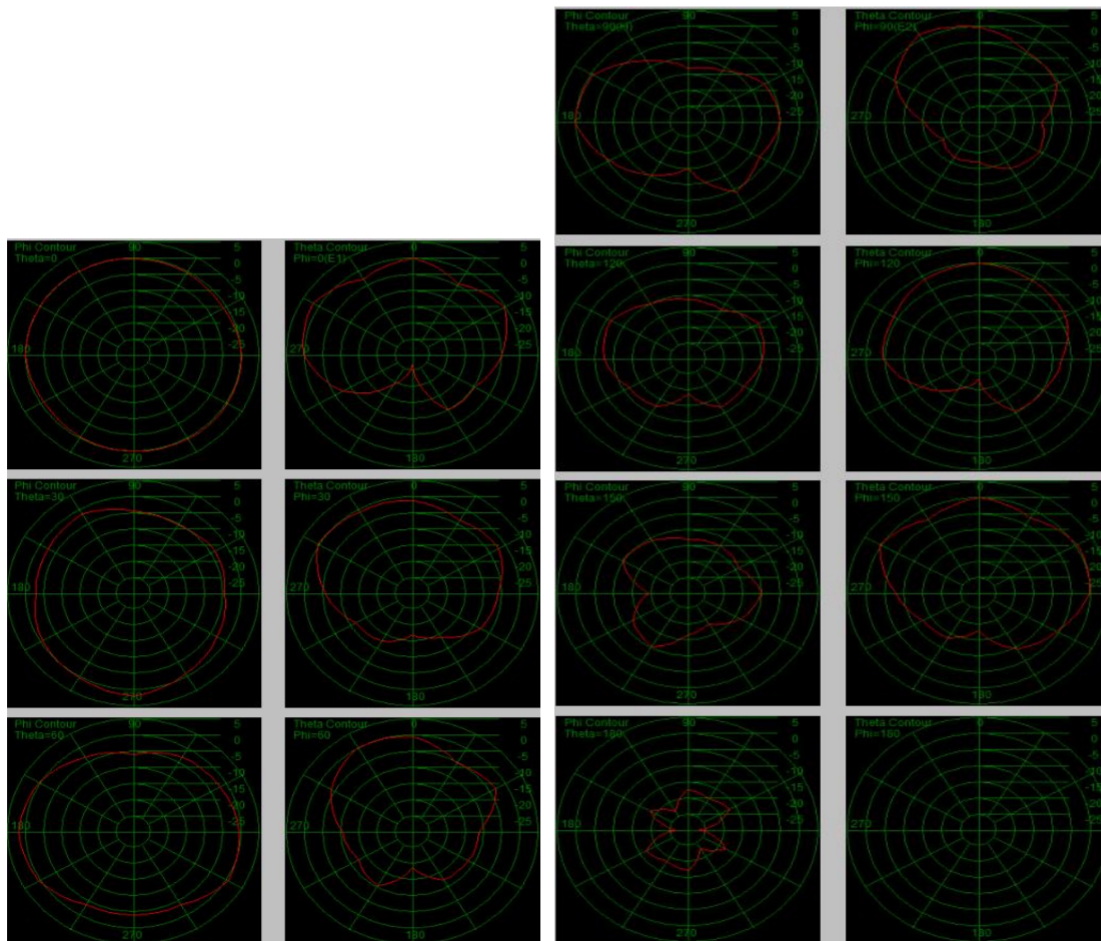
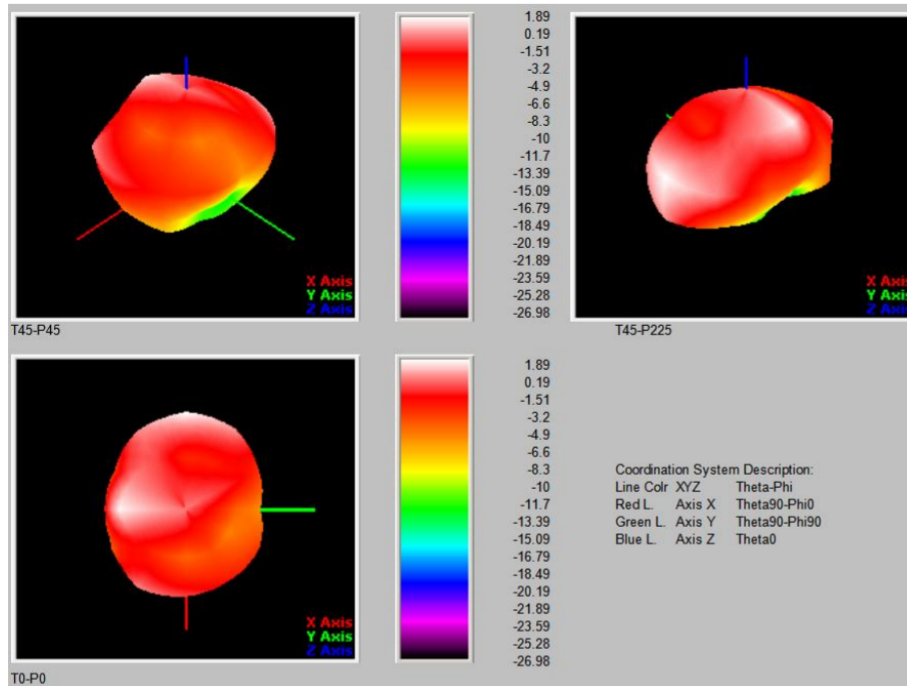
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Passive -Freq5620.00MHZ

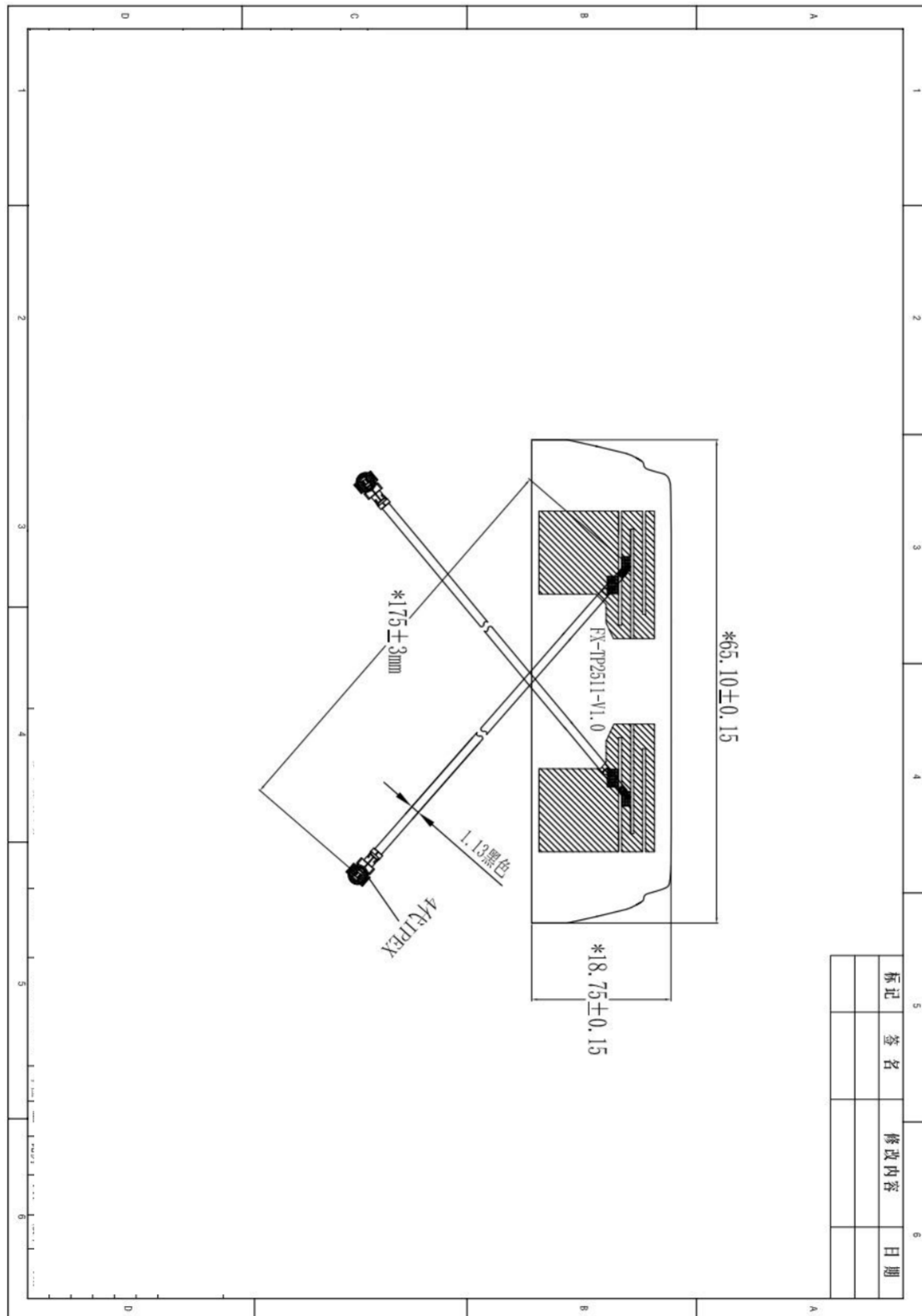


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5、Product structure drawing



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