

SPECIFICATION

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 FPC antenna

Product specification

Customer		Frequency	2400MHz——2500MHz
R F design	XIAO BIN	Version	A1
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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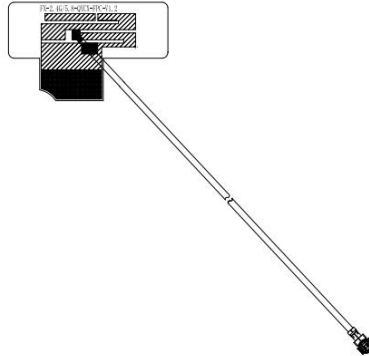
Directory

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.....	7

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1、Product pictures



2、Product parameters

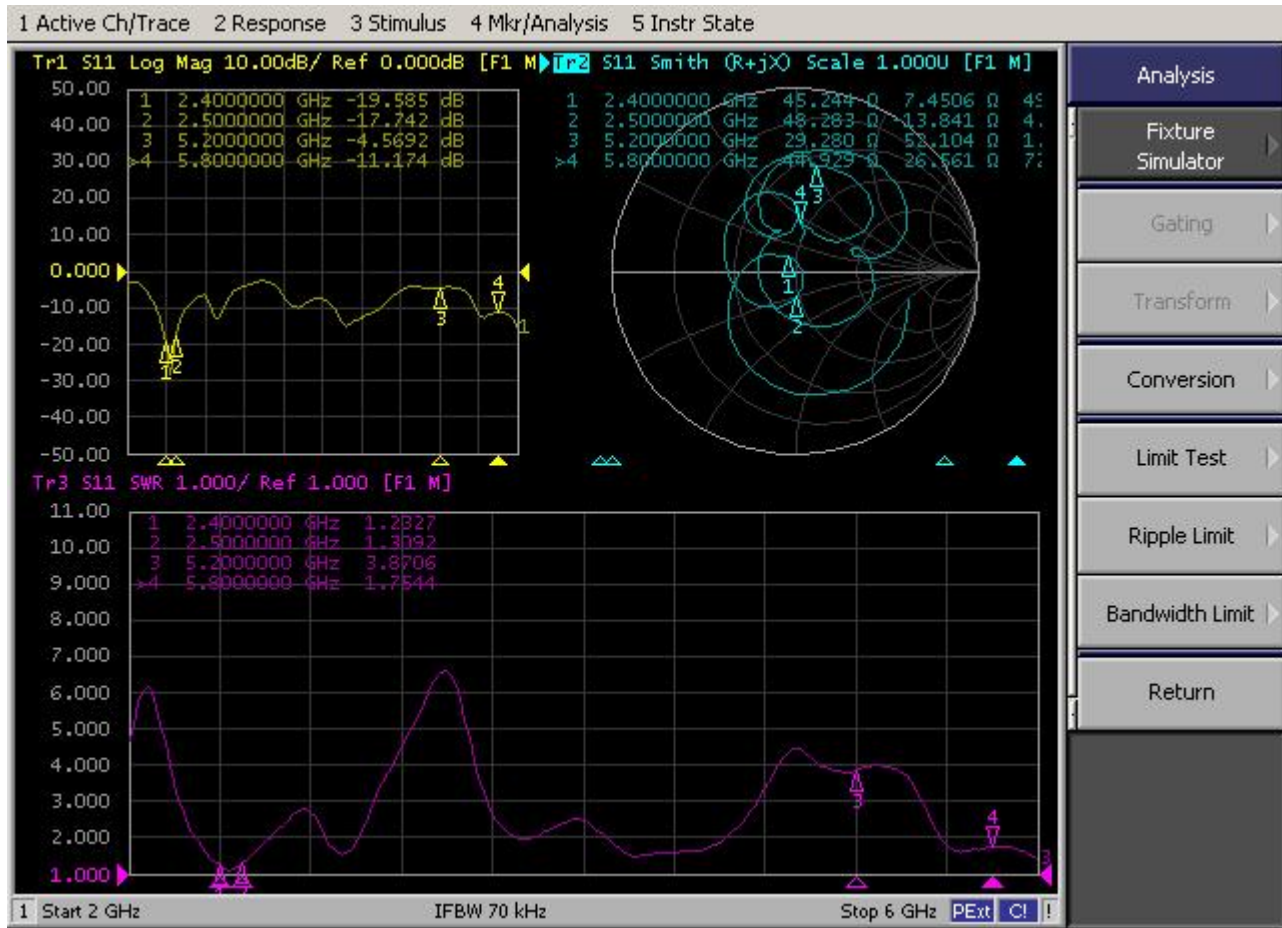
Product testing parameters			
产品名称(Name)	2.4G WIFI	产品型号(Model Type)	FX-2.4/5.8-QYCX-F PC-V1.2
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5200-5800MHz	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐射方向	Omnidirectional
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	2.74dBi	带宽 (Bandwidth)	100/600MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	29.6*10.4 $\pm$ 0.15 mm	外壳颜色(ANT Color)	black
连接器型号 (Connector)	IPEX 4	引线长度(Cable Length)	110 $\pm$ 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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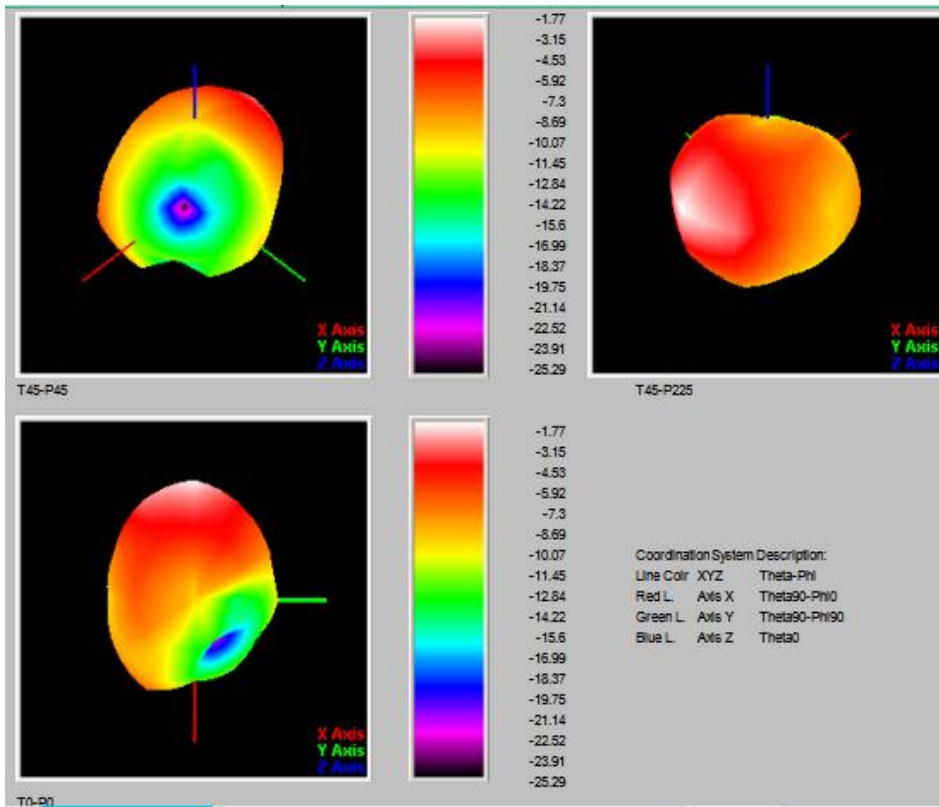
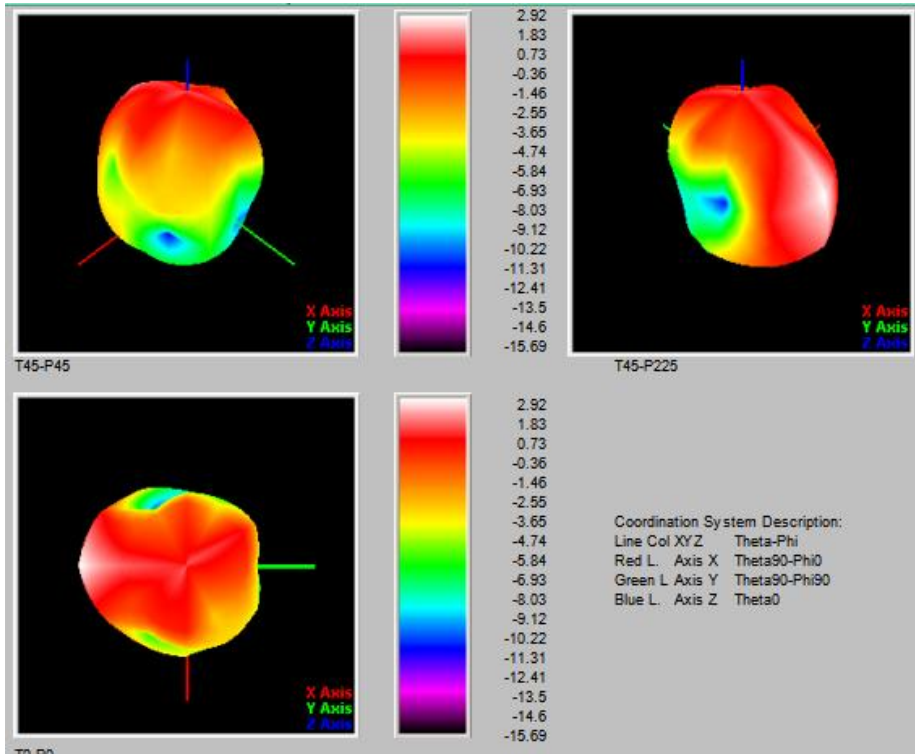
4、Antenna test data (gain, efficiency, apple chart)

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	-2.59	4.90	24.8%
2	2410.0	2410.00	-2.11	5.22	25.5%
3	2420.0	2420.00	-2.00	4.98	26.1%
4	2430.0	2430.00	-1.96	5.12	27.6%
5	2440.0	2440.00	-1.72	5.09	28.8%
6	2450.0	2450.00	-1.72	5.05	30.0%
7	2460.0	2460.00	-1.52	5.33	31.6%
8	2470.0	2470.00	-1.84	5.45	28.7%
9	2480.0	2480.00	-1.43	5.94	27.3%
10	2490.0	2490.00	-1.33	6.06	26.2%
11	2500.0	2500.00	-0.69	6.60	26.7%

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	5200.0	5200.00	0.75	8.23	25.9%
2	5225.0	5225.00	0.52	7.91	26.3%
3	5250.0	5250.00	0.79	8.11	28.5%
4	5275.0	5275.00	0.53	7.70	29.2%
5	5300.0	5300.00	0.05	7.08	29.8%
6	5325.0	5325.00	0.31	6.63	30.3%
7	5350.0	5350.00	-0.26	6.06	25.3%
8	5375.0	5375.00	-0.59	5.06	26.2%
9	5400.0	5400.00	-0.39	5.16	25.8%
10	5425.0	5425.00	0.05	5.10	31.2%
11	5450.0	5450.00	0.51	5.27	33.4%
12	5475.0	5475.00	0.76	5.47	33.8%
13	5500.0	5500.00	1.13	5.76	34.5%
14	5525.0	5525.00	1.04	6.01	31.8%
15	5550.0	5550.00	0.96	5.99	31.4%
16	5575.0	5575.00	0.79	6.28	28.3%
17	5600.0	5600.00	0.61	6.24	27.4%
18	5625.0	5625.00	1.36	6.52	30.5%
19	5650.0	5650.00	1.65	6.59	32.1%
20	5675.0	5675.00	1.77	6.19	36.1%
21	5700.0	5700.00	1.69	6.06	36.6%
22	5725.0	5725.00	1.84	5.92	39.1%
23	5750.0	5750.00	1.73	6.28	35.1%
24	5775.0	5775.00	1.90	6.51	34.6%
25	5800.0	5800.00	2.74	7.08	36.8%

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Figure 2: Cross-section of the fitting (Figure 2) showing dimensions: 110±3MM, 29.60±0.15, and *10.40±0.15.

Figure 1: Side view of the fitting (Figure 1) showing dimensions: 110±3MM, 29.60±0.15, and *10.40±0.15.

Technical drawing of a 4代PEX pipe fitting. The drawing shows a cross-section of the fitting (Figure 2) and a side view (Figure 1). The side view shows a pipe with a diameter of 110±3MM and a length of 29.60±0.15. The fitting is labeled '4代PEX' and '1.13黑色线'. The drawing includes dimensions for the fitting and the pipe, and a table for material properties.