

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	2026-04-18

Customer confirmation:

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

Confidentiality requirements

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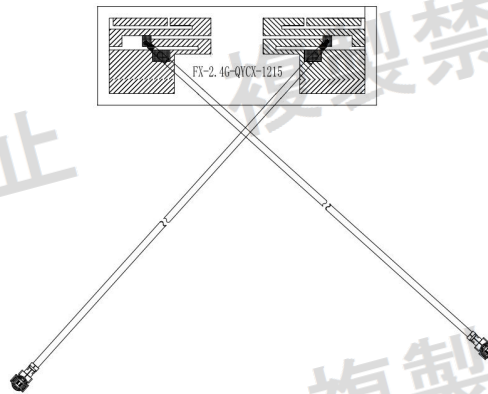
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1、Product pictures



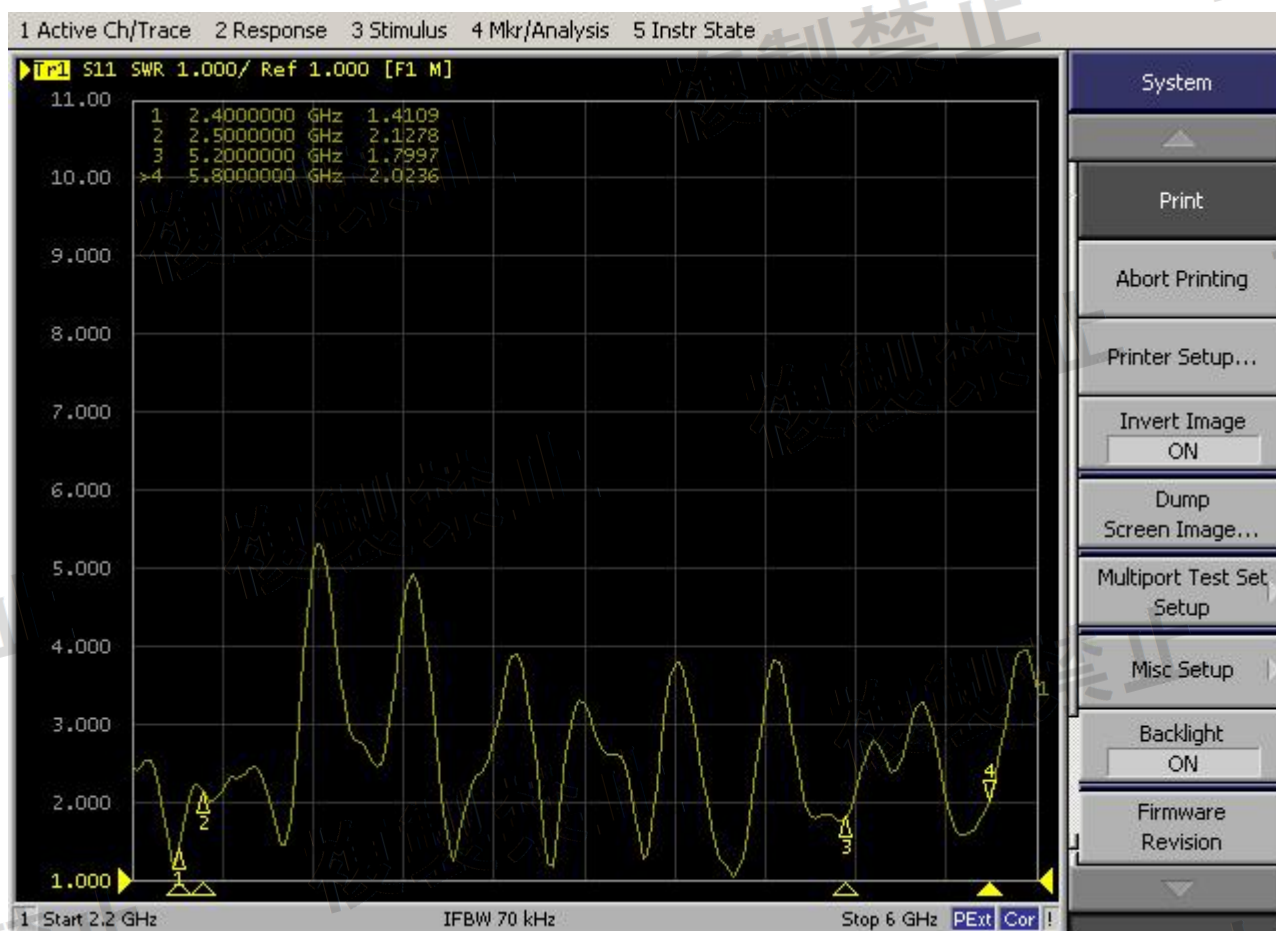
2、Product parameters

Product testing parameters			
产品名称(Name)	2.4G-5.8G WIFI	产品型号(Model Type)	FX-2.4G-QYCX-1.1 3B-193-4
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)	0.13/2.1dBi	带宽 (Bandwidth)	100/703MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	48*17 $\pm$ 0.15 mm	外壳颜色(ANT Color)	black
连接器型号 (Connector)	IPEX 4 代	引线长度(Cable Length)	193 $\pm$ 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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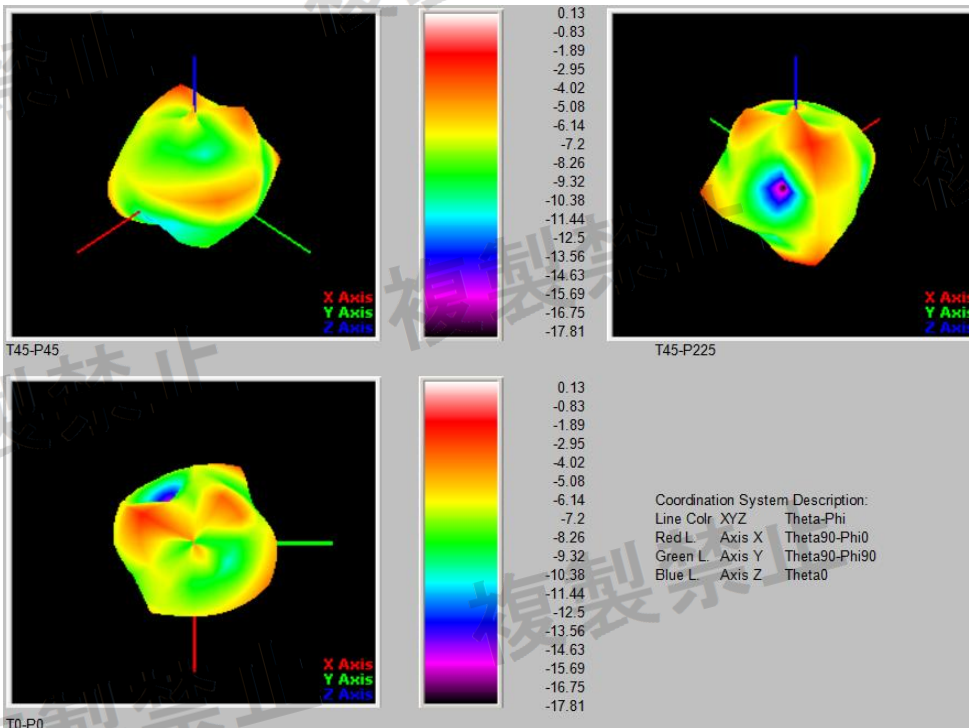
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4、Antenna test data (gain, efficiency, apple chart)

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)
1	5200.0	5200.00	0.15	38.4%
2	5230.0	5230.00	0.81	37.0%
3	5260.0	5260.00	1.41	35.6%
4	5290.0	5290.00	1.84	33.5%
5	5320.0	5320.00	2.07	32.9%
6	5350.0	5350.00	1.75	30.0%
7	5380.0	5380.00	2.10	30.8%
8	5410.0	5410.00	0.88	36.1%
9	5440.0	5440.00	0.87	37.0%
10	5470.0	5470.00	0.20	34.9%
11	5500.0	5500.00	-0.16	33.2%
12	5530.0	5530.00	-0.79	31.1%
13	5560.0	5560.00	-1.06	31.1%
14	5590.0	5590.00	-1.49	30.3%
15	5620.0	5620.00	-2.26	39.5%
16	5650.0	5650.00	-2.27	31.3%
17	5680.0	5680.00	-1.96	33.8%
18	5710.0	5710.00	-0.97	34.3%
19	5740.0	5740.00	-0.23	29.5%
20	5770.0	5770.00	-0.86	25.4%
21	5800.0	5800.00	0.18	29.9%

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)
1	2400.0	2400.00	-1.98	23.6%
2	2410.0	2410.00	-2.36	21.3%
3	2420.0	2420.00	-1.38	25.8%
4	2430.0	2430.00	-1.82	23.6%
5	2440.0	2440.00	-1.18	25.1%
6	2450.0	2450.00	-1.14	25.6%
7	2460.0	2460.00	-0.67	24.0%
8	2470.0	2470.00	-0.38	23.1%
9	2480.0	2480.00	-0.42	23.6%
10	2490.0	2490.00	0.13	23.3%
11	2500.0	2500.00	-0.05	22.9%

Passive -Freq2490.00MHZ

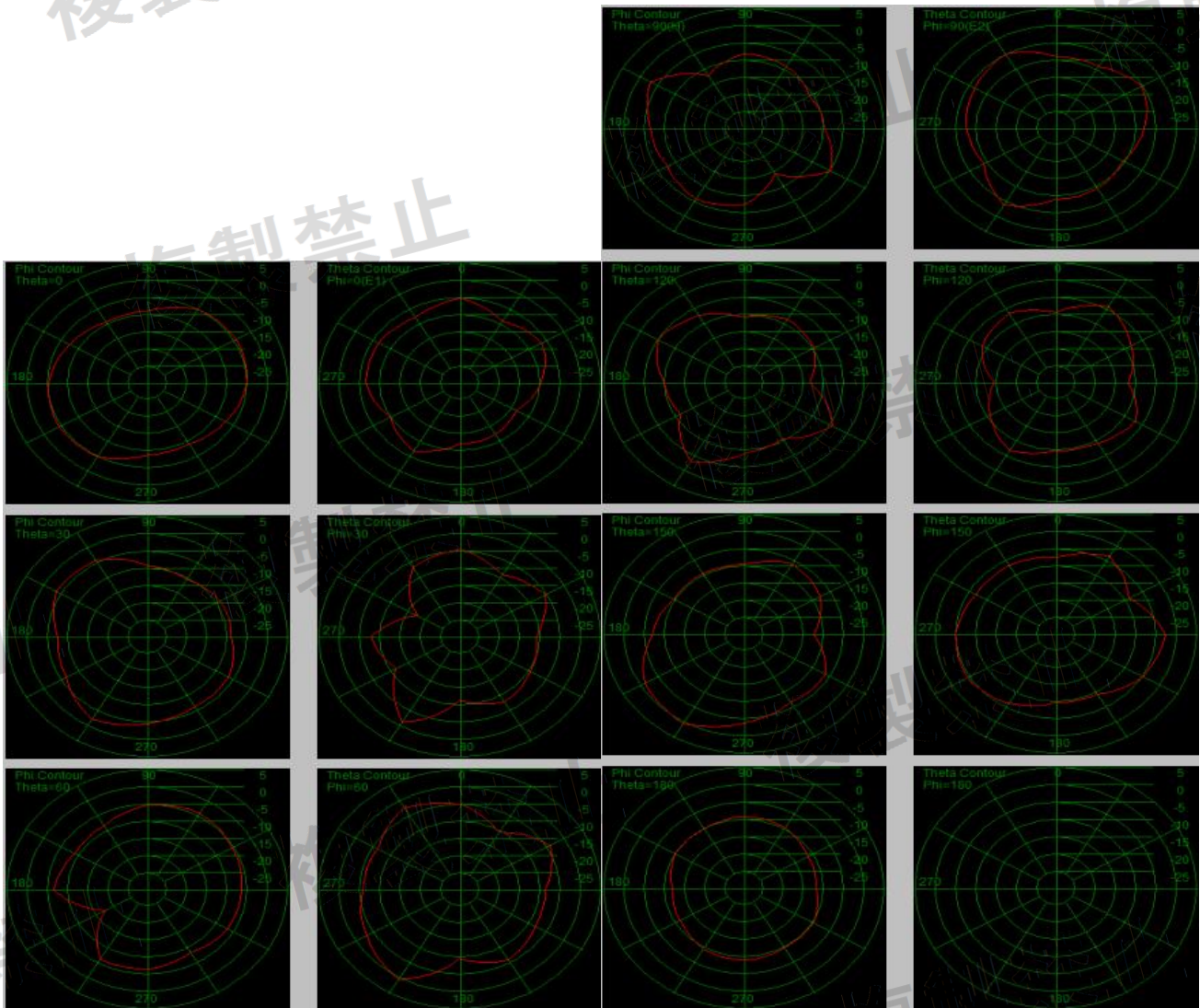


<http://www.fccant.com>

<http://www.fly-core.com>

Confidentiality requirements

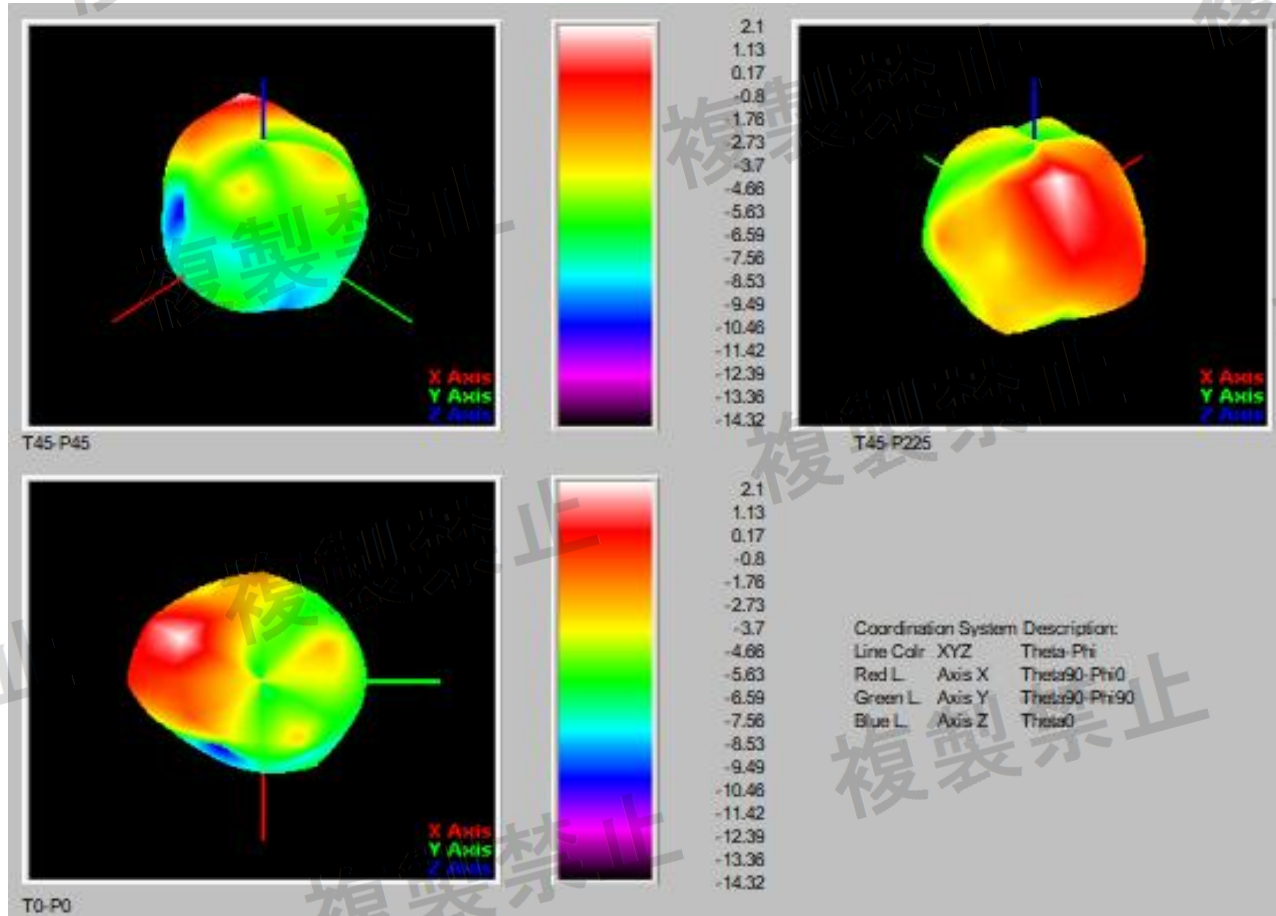
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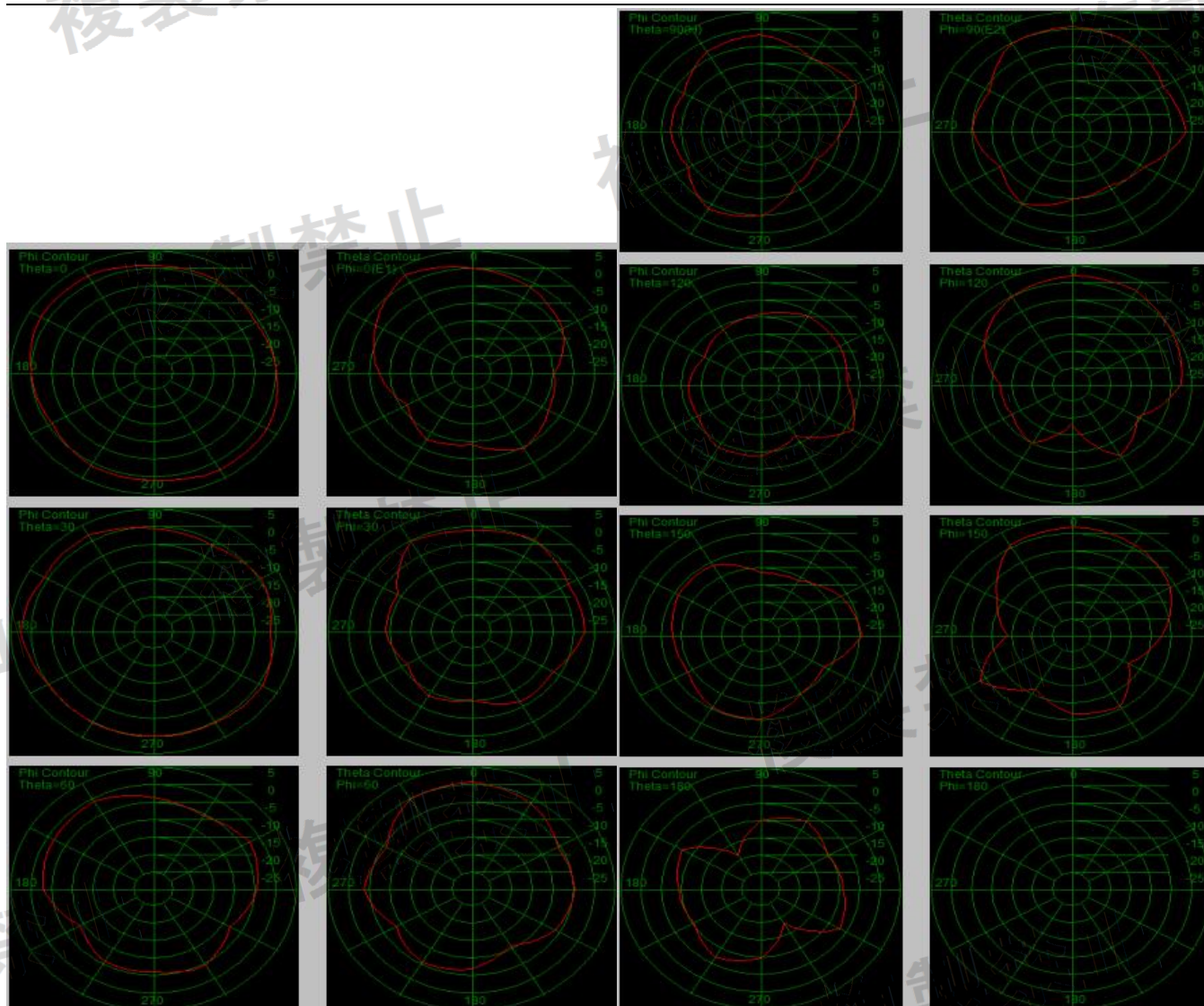
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Passive -Freq5380.00MHZ



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5、Product structure drawing

