

SPECIFICATION

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 FPC antenna

Product specification

Customer		Frequency	2400-2500/5150-5835MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2024-04-07

Customer confirmation:

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

Confidentiality requirements

Our company already possesses the proprietary technology provided, and these proprietary information should be strictly kept confidential. Without the prior written consent of Shenzhen Feixin Wireless Communication Co., Ltd., it is not allowed to be disclosed to anyone or the company.

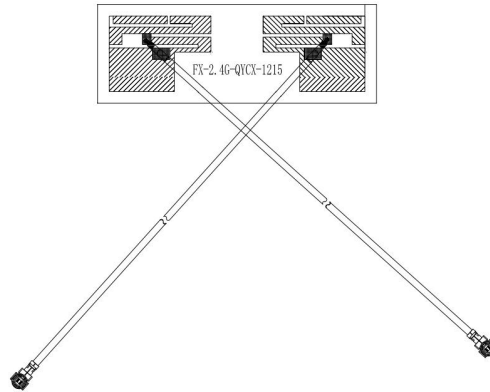
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1、Product pictures



2、Product parameters

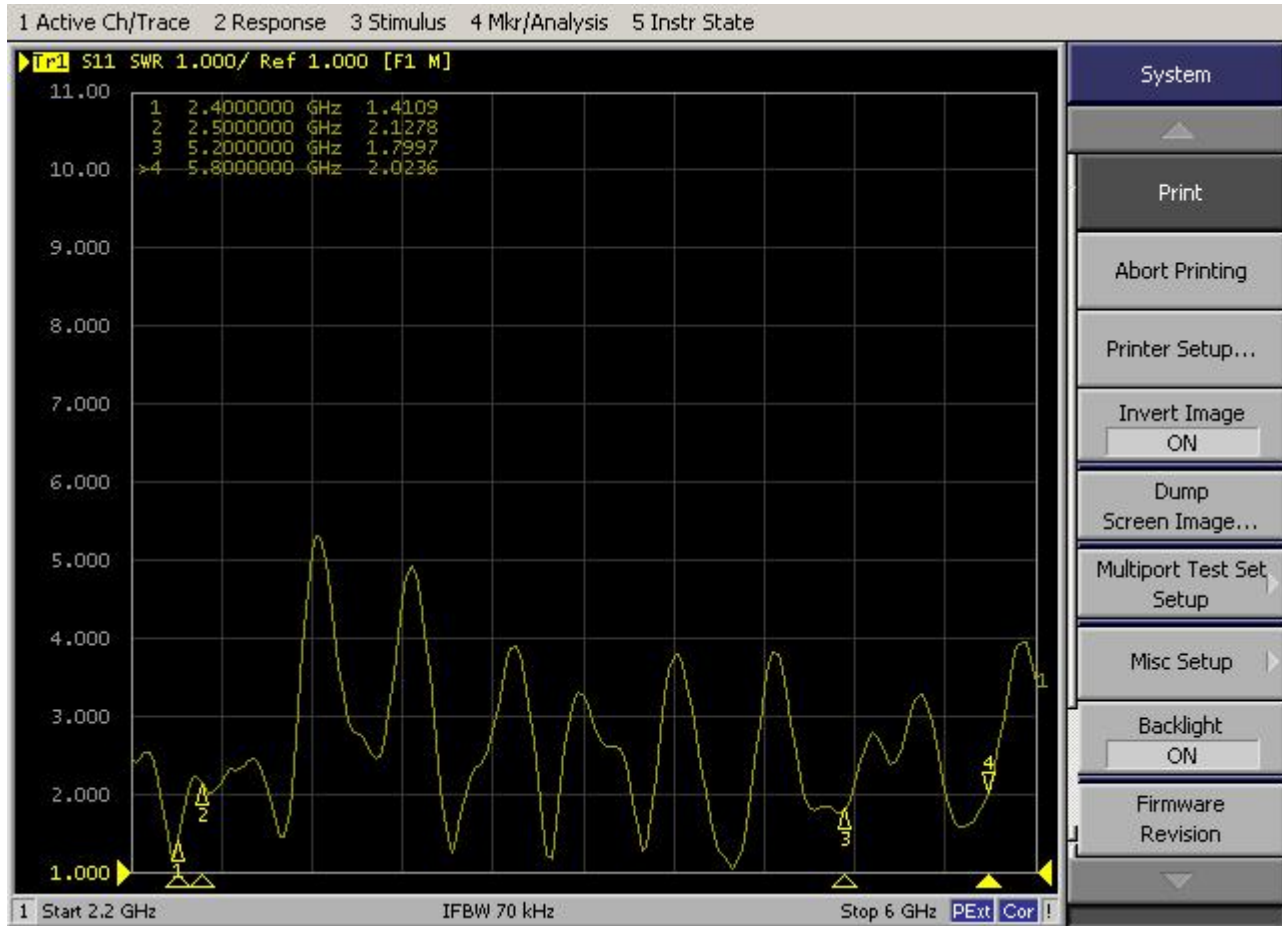
Product testing parameters			
产品名称(Name)	2.4G-5.8G WIFI	产品型号(Model Type)	FX-2.4G-QYCX-1.1 3B-168-4
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5150-5835MHz	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐射方向	全向
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	2.1dBi	带宽 (Bandwidth)	100/703MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	48*17 $\pm$ 0.15 mm	天线颜色(ANT Color)	黑色
连接器型号 (Connector)	IPEX 4 代	引线长度(Cable Length)	168 $\pm$ 3 mm
天线材料 ANT 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 data



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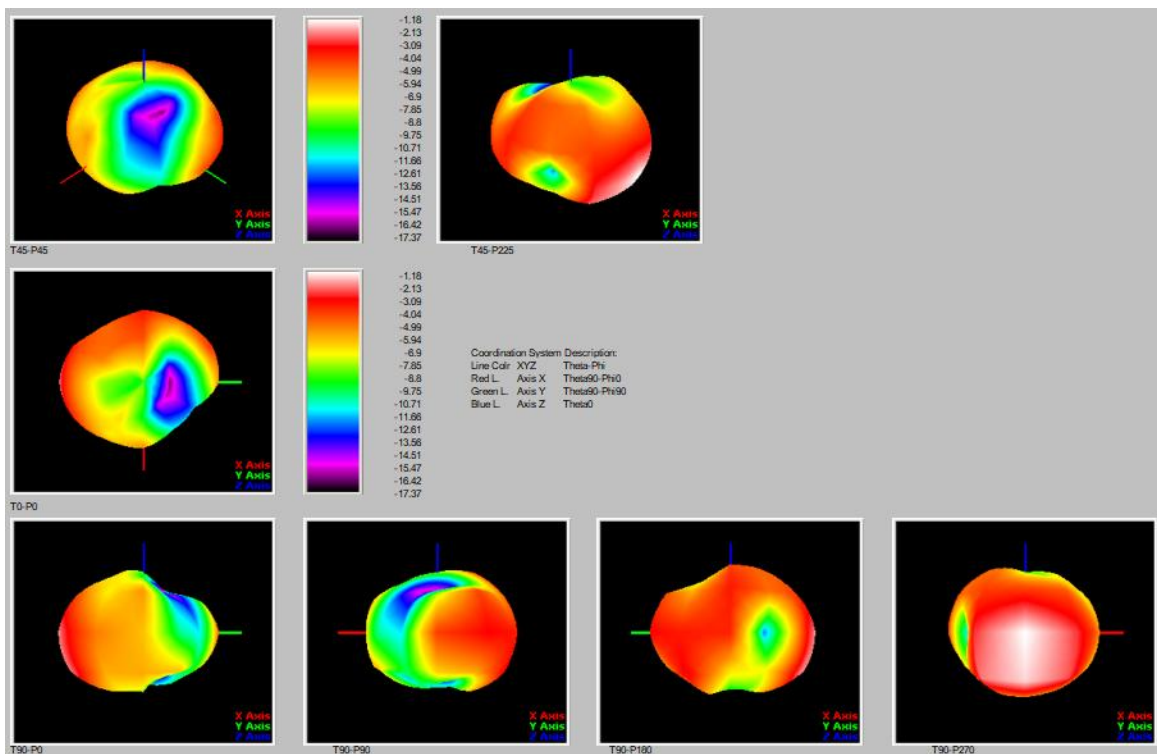
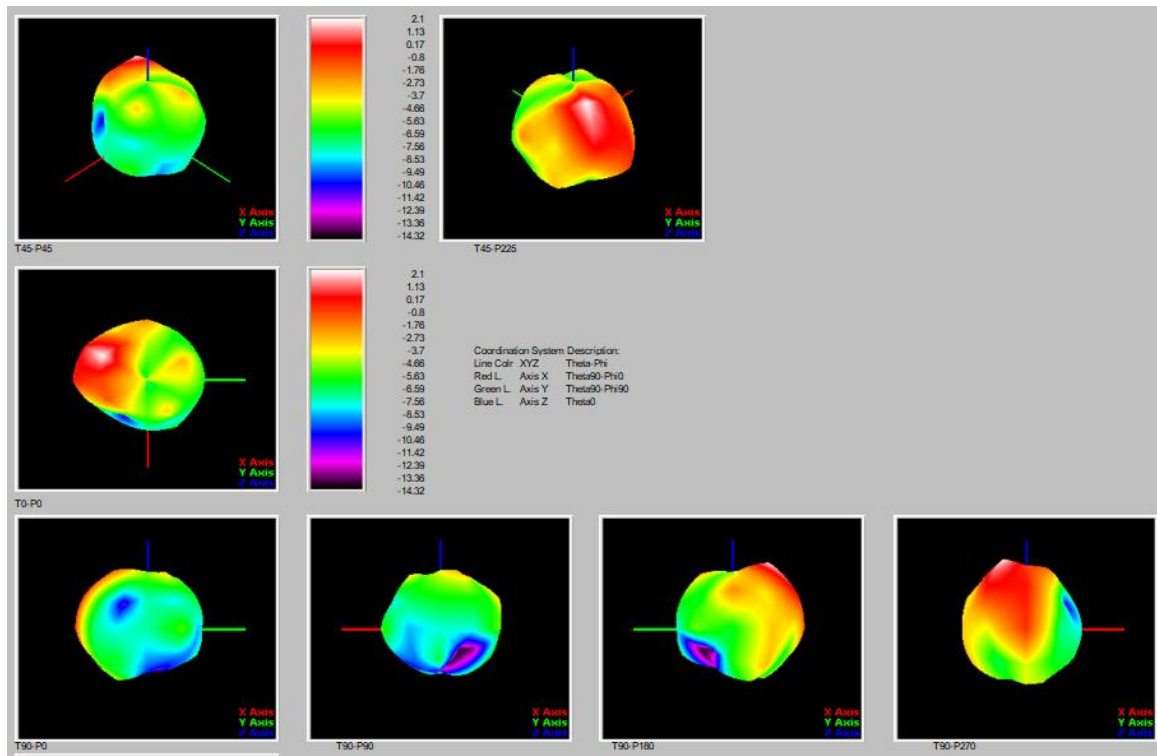
4、Antenna test data (gain, efficiency, apple chart)

Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)
2400.0	2400.00	-1.98	23.6%
2410.0	2410.00	-2.36	21.3%
2420.0	2420.00	-1.38	25.8%
2430.0	2430.00	-1.82	23.6%
2440.0	2440.00	-1.18	25.1%
2450.0	2450.00	-1.14	25.6%
2460.0	2460.00	-0.67	24.0%
2470.0	2470.00	-0.38	23.1%
2480.0	2480.00	-0.42	23.6%
2490.0	2490.00	0.13	23.3%
2500.0	2500.00	-0.05	22.9%

Freq. (MHz)	TRP (dBm)	Gain (dBi)	Efficiency (%)
5150.0	5150.00	0.12	36.2%
5200.0	5200.00	0.15	38.4%
5250.0	5250.00	0.81	37.0%
5260.0	5260.00	1.41	35.6%
5290.0	5290.00	1.84	33.5%
5320.0	5320.00	2.07	32.9%
5350.0	5350.00	1.75	30.0%
5380.0	5380.00	2.10	30.8%
5410.0	5410.00	0.88	36.1%
5440.0	5440.00	0.87	37.0%
5470.0	5470.00	0.20	34.9%
5500.0	5500.00	-0.16	33.2%
5530.0	5530.00	-0.79	31.1%
5560.0	5560.00	-1.06	31.1%
5590.0	5590.00	-1.49	30.3%
5620.0	5620.00	-2.26	39.5%
5650.0	5650.00	-2.27	31.3%
5680.0	5680.00	-1.96	33.8%
5710.0	5710.00	-0.97	34.3%
5740.0	5740.00	-0.23	29.5%
5770.0	5770.00	-0.86	25.4%
5800.0	5800.00	0.18	29.9%
5835.0	5835.00	0.15	28.8%

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5、Product structure drawing

