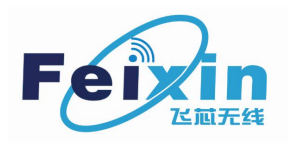


SPECIFICATION

Shenzhen Feixin Wireless Communication



深圳飞芯无线通讯有限公司

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G-5.8G Antenna

Product specification

Customer		Frequency	2400MHz——2500MHz 5150——5830MHZ
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2026-05-06

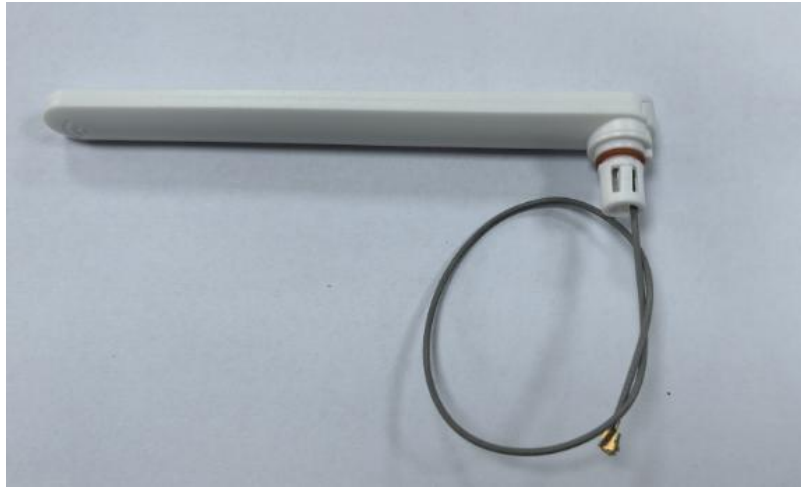
Customer confirmation:

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

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1、Product pictures

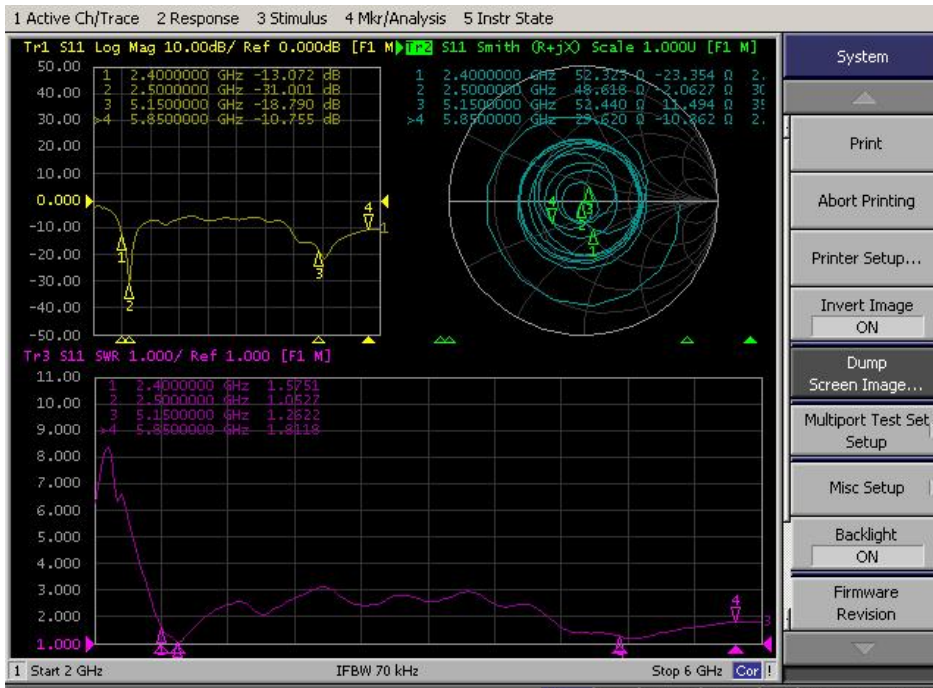


2、Product parameters

产品测试参数			
产品名称(Name)	2.4G FPC antenna	产品型号(Model Type)	FX-2.4-2DB-1.13B-220-1
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5250-5850MHz	极化方式 (Polarization)	垂直(vertical)
输入阻抗(Impedance)	50 Ω	辐 射 方 向 (Radiation direction)	全向(Omnidirectional)
驻波比 (VSWR)	≤ 3.0	功率容量(Power)	50W
增益(Gain)	2.49/3.15dBi	带宽 (Bandwidth)	100/600MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	105 $\pm$ 2 mm	天线颜色(Ant Color)	white
连接器型号 (Connector)	Ipex 1D	引线长度(Cable Length)	200 $\pm$ 3 mm
天线材料 (Ant Material)	ABS		
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



(1) Antenna efficiency and gain:

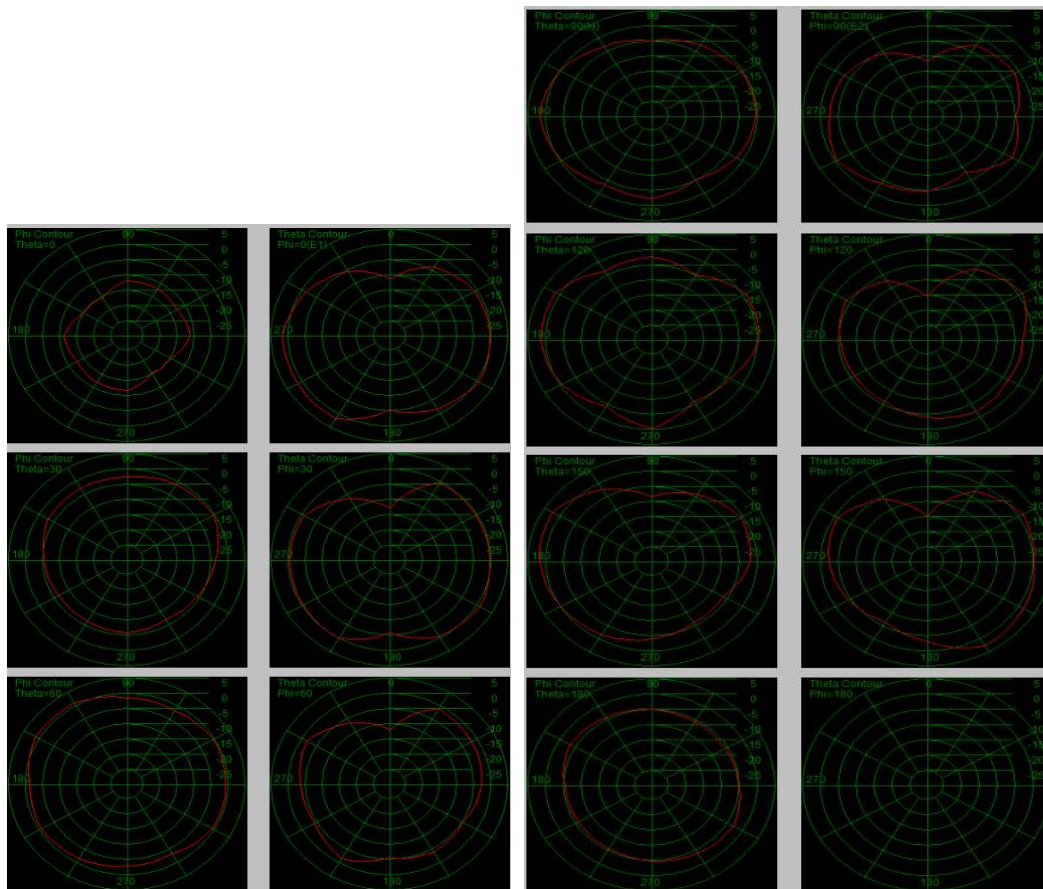
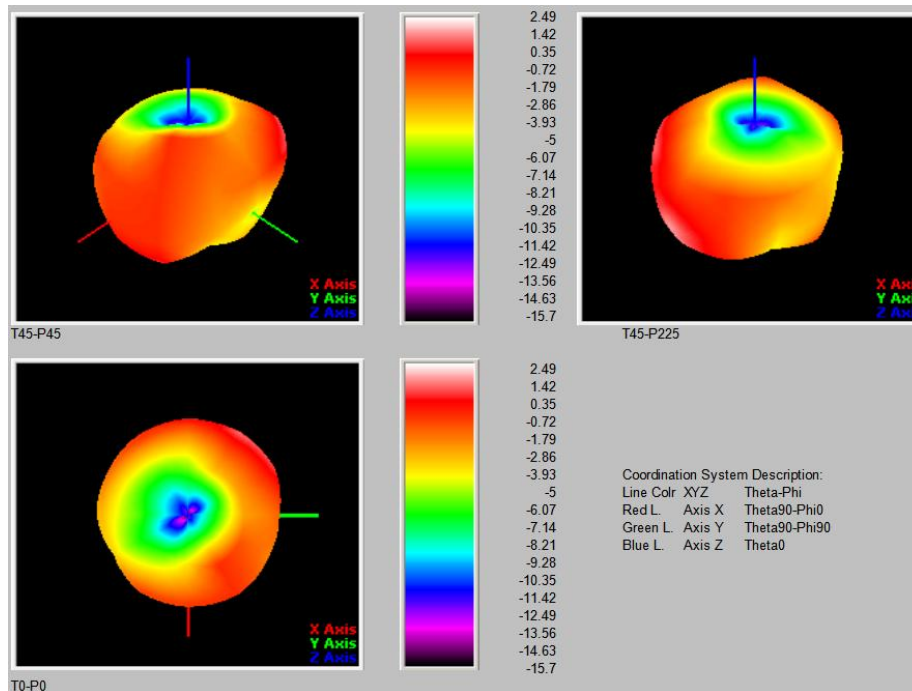
	12	5150.0	1.50	43.6%
	13	5170.0	1.07	43.4%
	14	5190.0	0.68	45.0%
	15	5210.0	0.28	43.0%
	16	5230.0	-0.34	42.3%
	17	5250.0	-0.21	39.3%
	18	5270.0	0.60	43.1%
	19	5290.0	0.88	46.3%
	20	5310.0	0.88	41.5%
	21	5330.0	2.16	45.7%
	22	5350.0	1.37	43.2%
	23	5370.0	1.56	46.1%
	24	5390.0	0.59	42.1%
	25	5410.0	0.66	48.7%
	26	5430.0	0.62	43.7%
	27	5450.0	-0.70	39.0%
	28	5470.0	-1.25	48.3%
	29	5490.0	-1.01	48.2%
	30	5510.0	-0.20	48.3%
	31	5530.0	0.66	45.0%
	32	5550.0	0.41	45.0%
	33	5570.0	-1.90	42.7%
	34	5590.0	-1.33	40.4%
	35	5610.0	-1.18	43.3%
	36	5630.0	-0.20	43.7%
	37	5650.0	1.23	46.5%
	38	5670.0	0.77	40.1%
	39	5690.0	1.23	44.5%
	40	5710.0	3.15	47.6%
	41	5730.0	1.63	42.4%
	42	5750.0	0.78	42.8%
	43	5770.0	0.01	41.8%
	44	5790.0	1.04	41.5%
	45	5810.0	0.11	38.5%
	46	5830.0	-0.28	39.3%

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.49	67.0%
2	2410.0	1.24	52.8%
3	2420.0	1.27	56.8%
4	2430.0	0.53	50.4%
5	2440.0	0.80	53.5%
6	2450.0	1.07	54.0%
7	2460.0	0.69	52.4%
8	2470.0	0.70	53.0%
9	2480.0	0.10	45.1%
10	2490.0	0.73	50.0%
11	2500.0	0.07	44.0%

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 Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax: +86-021-34711533

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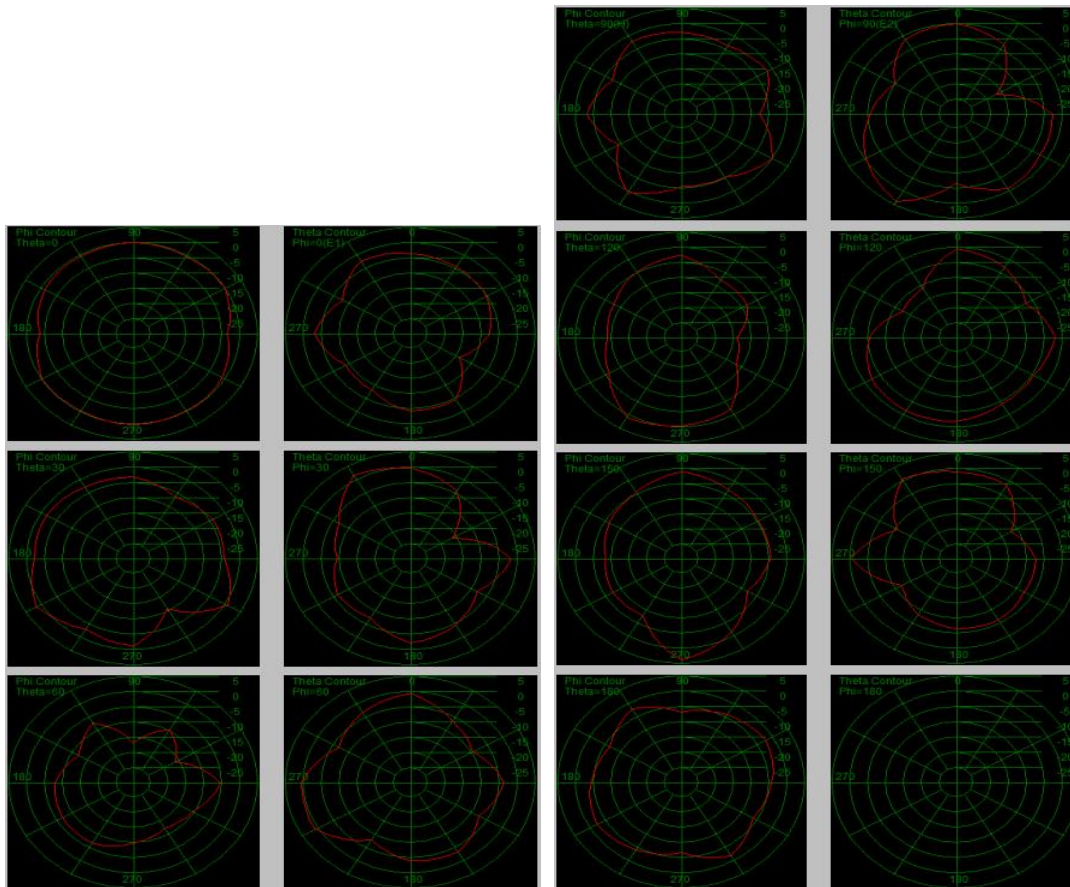
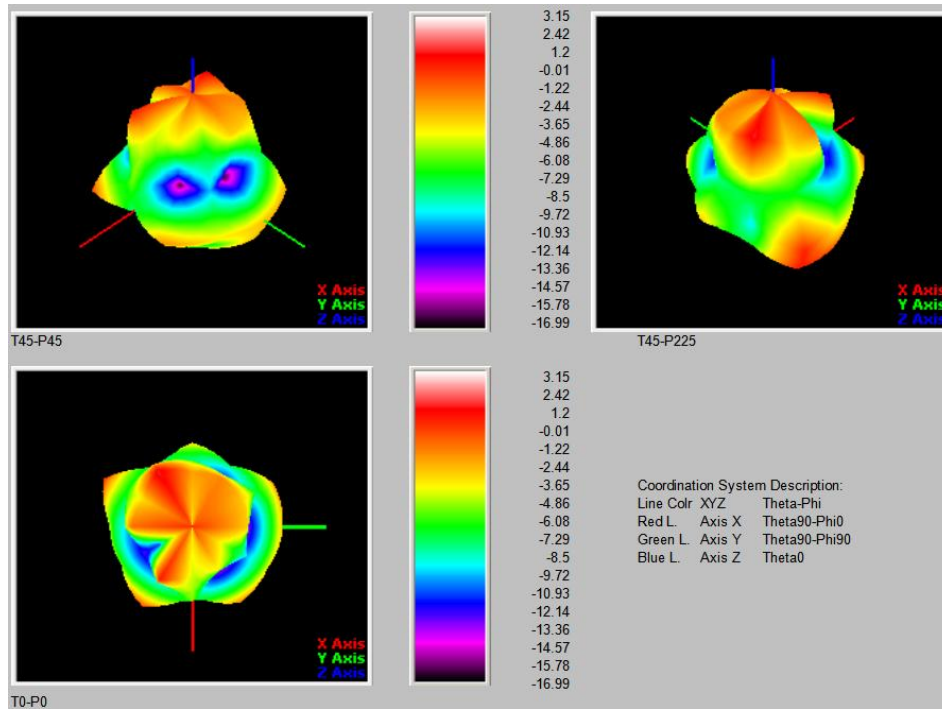
Passive -Freq2400.00MHZ



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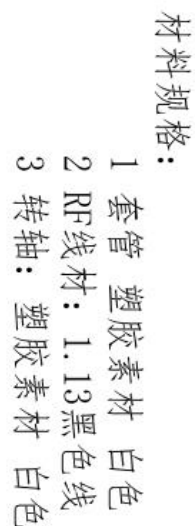
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Passive -Freq5710.00MHZ



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4、Product structure drawing



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