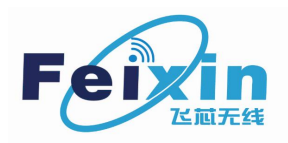


SPECIFICATION

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 FPC Antenna

Product specification

Customer		Frequency	2400MHz——2500MHz 5150——5850MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2026-02-03

Customer confirmation:

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

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1、Product pictures

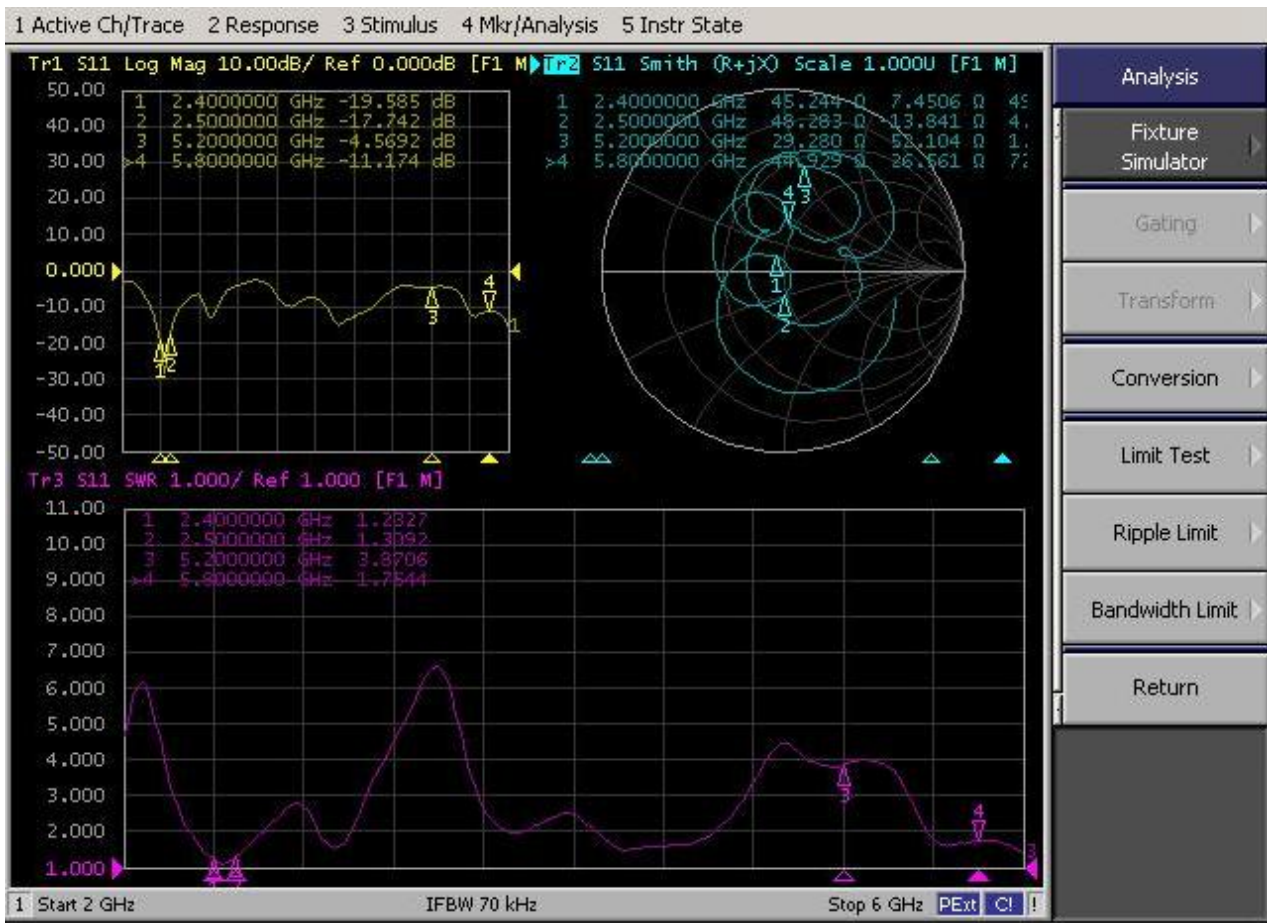


2、Product parameters

Product testing parameters			
产品名称(Name)	2.4G-5.8G antenna	产品型号(Model Type)	FX-2.4G-TB-PB-1.1 3B-150-1
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHz 5150-5850MHz	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)	\
增益(Gain)	3/3.12dBi	带宽 (Bandwidth)	100/700MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	54.50*12 $\pm$ 0.15 mm	天线颜色(Ant Color)	black
连接器型号 (Connector)	IPEX 1D	引线长度(Cable Length)	150 $\pm$ 3mm
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, Return loss and Smith data



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4. Antenna passive test data:

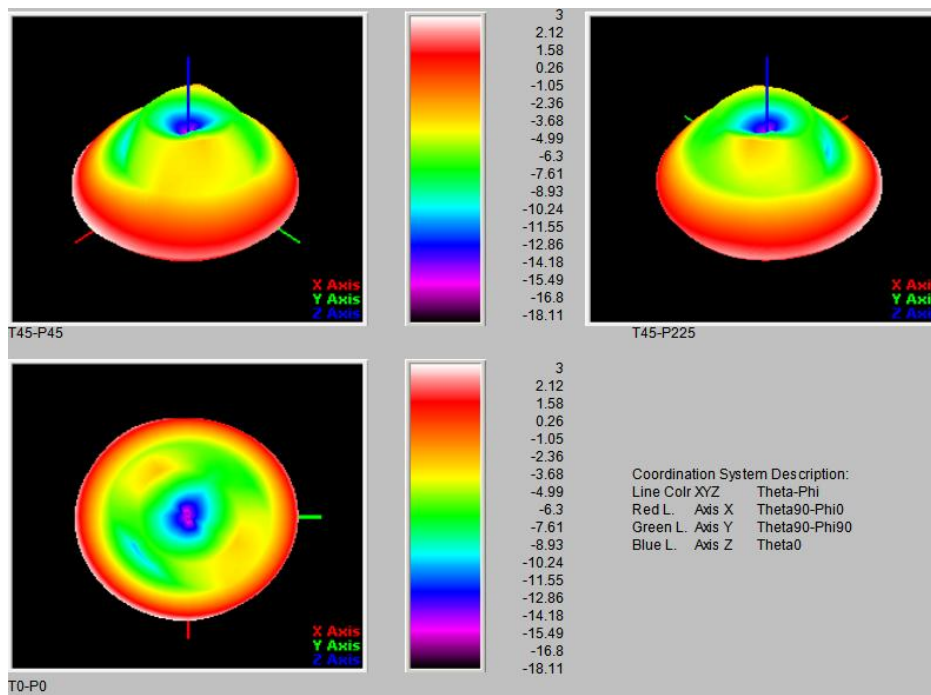
(1) Antenna efficiency and gain:

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	2.20	49.0%
2	2410.0	2.18	52.9%
3	2420.0	2.33	53.2%
4	2430.0	2.47	54.8%
5	2440.0	2.51	58.1%
6	2450.0	2.92	59.4%
7	2460.0	3.00	59.2%
8	2470.0	2.71	60.2%
9	2480.0	2.47	58.0%
10	2490.0	2.36	57.3%
11	2500.0	2.19	55.9%

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	5200.0	2.19	48.4%
2	5230.0	1.81	47.0%
3	5260.0	2.41	55.6%
4	5290.0	2.31	53.5%
5	5320.0	2.55	52.9%
6	5350.0	2.75	53.2%
7	5380.0	2.62	52.6%
8	5410.0	2.88	56.1%
9	5440.0	3.12	57.0%
10	5470.0	2.67	54.9%
11	5500.0	2.55	53.8%
12	5530.0	2.45	51.1%
13	5560.0	2.31	51.1%
14	5590.0	2.21	50.3%
15	5620.0	2.23	49.5%
16	5650.0	2.21	51.3%
17	5680.0	1.96	53.8%
18	5710.0	1.97	54.3%
19	5740.0	1.23	49.5%
20	5770.0	1.86	45.4%
21	5800.0	1.18	49.9%

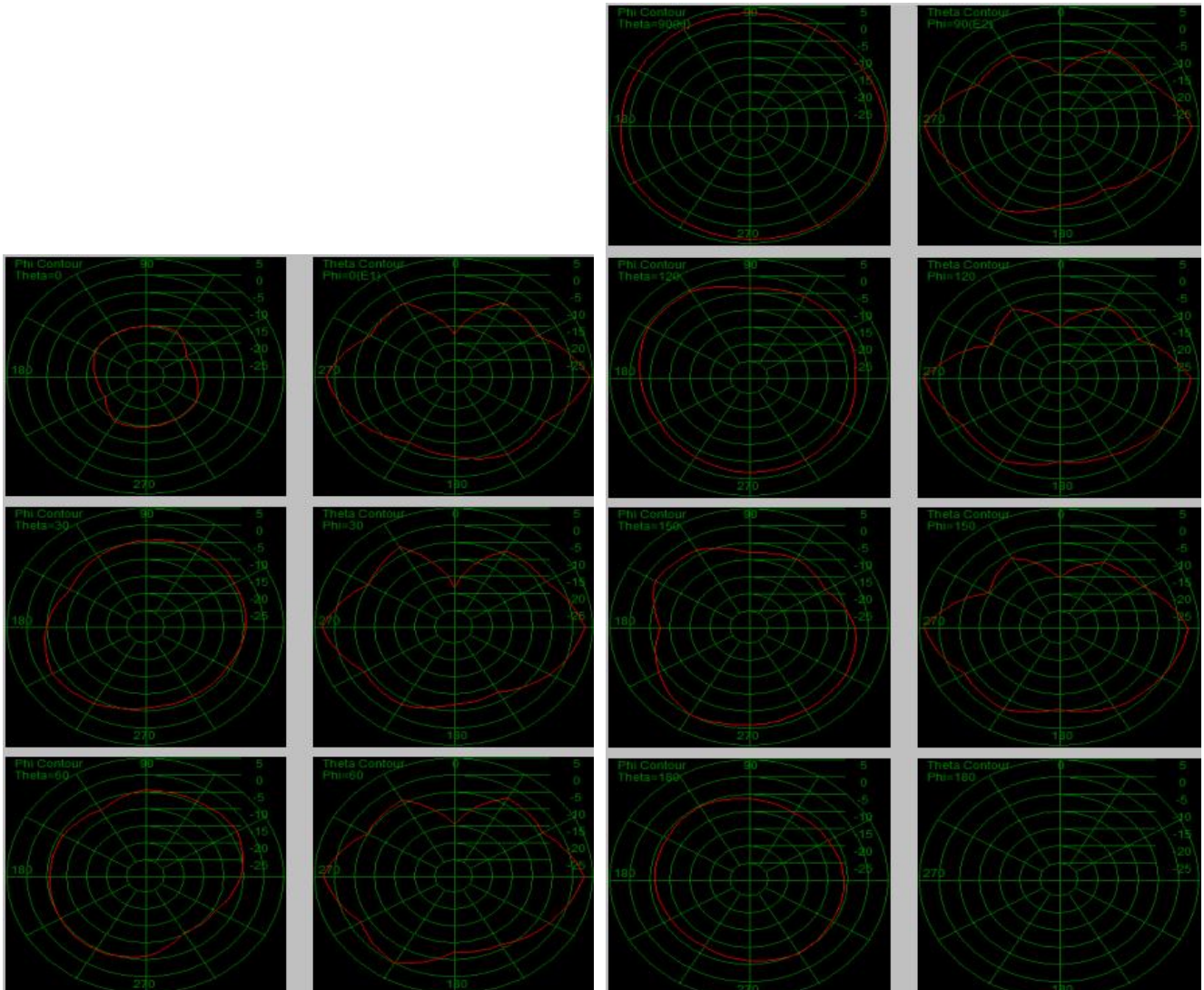
Apple chart and direction chart

(2-1) Passive -Freq2460.00MHZ



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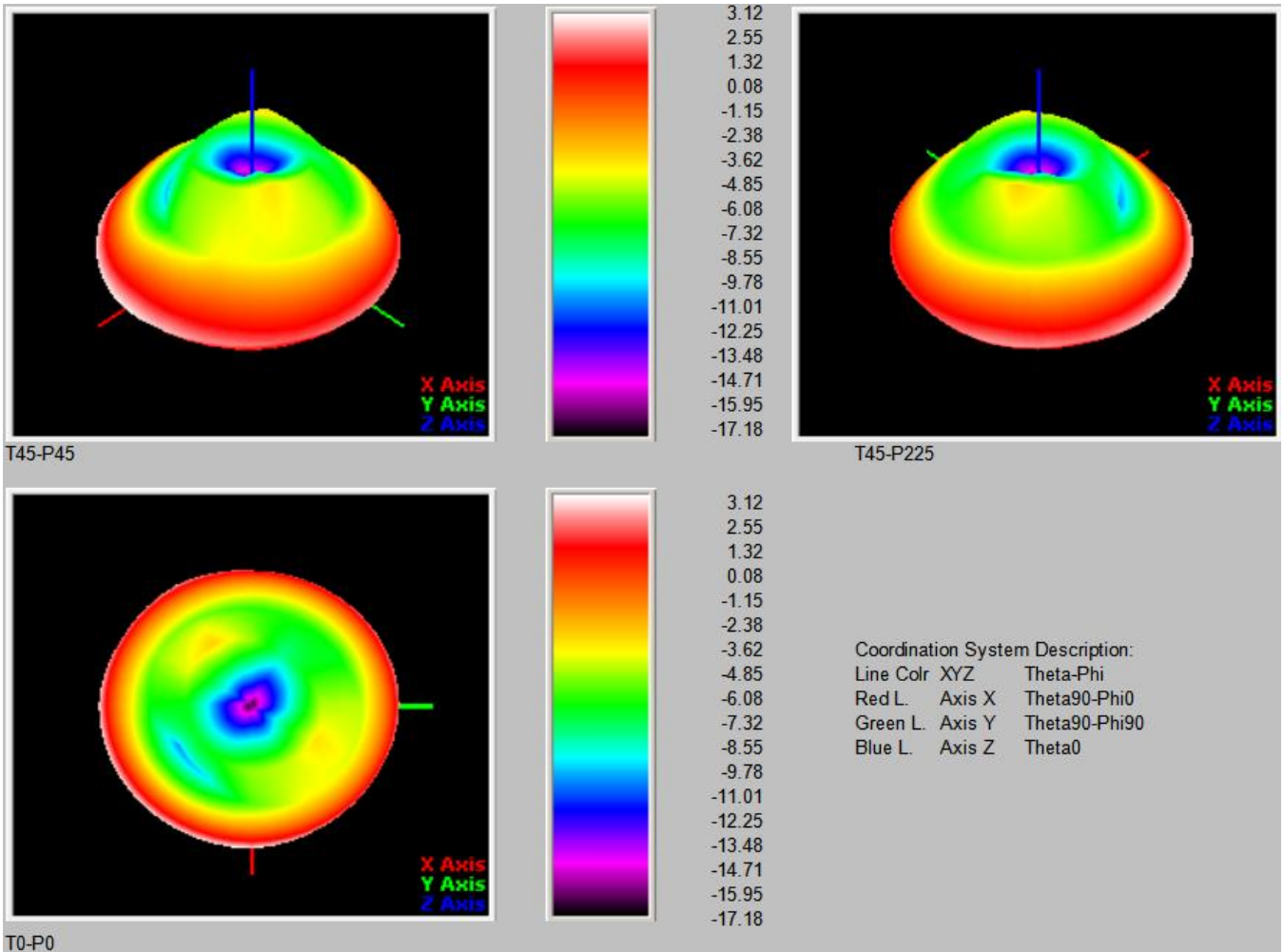
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<http://www.flxant.com>

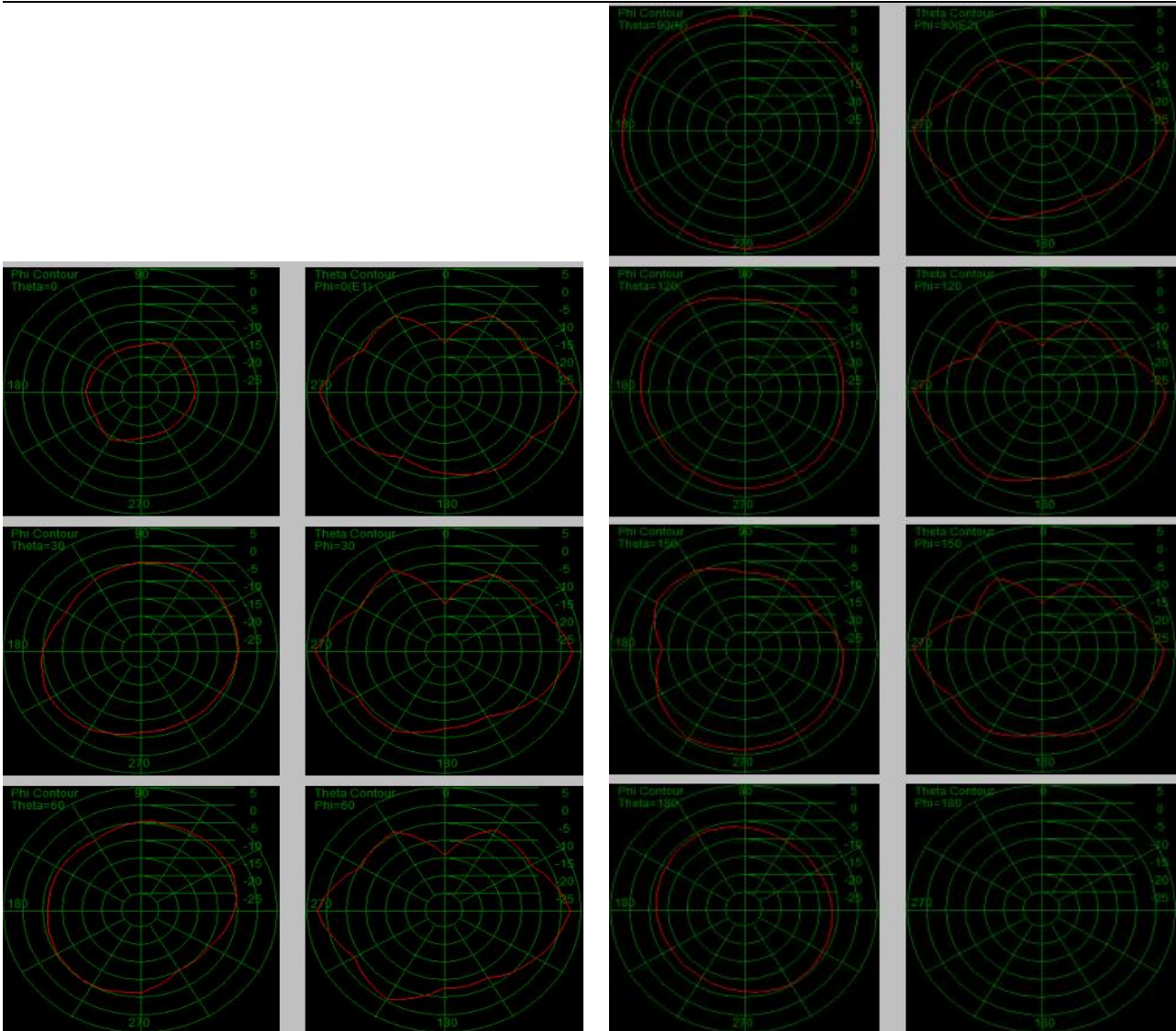
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(2-2) Passive -Freq5440.00MHZ



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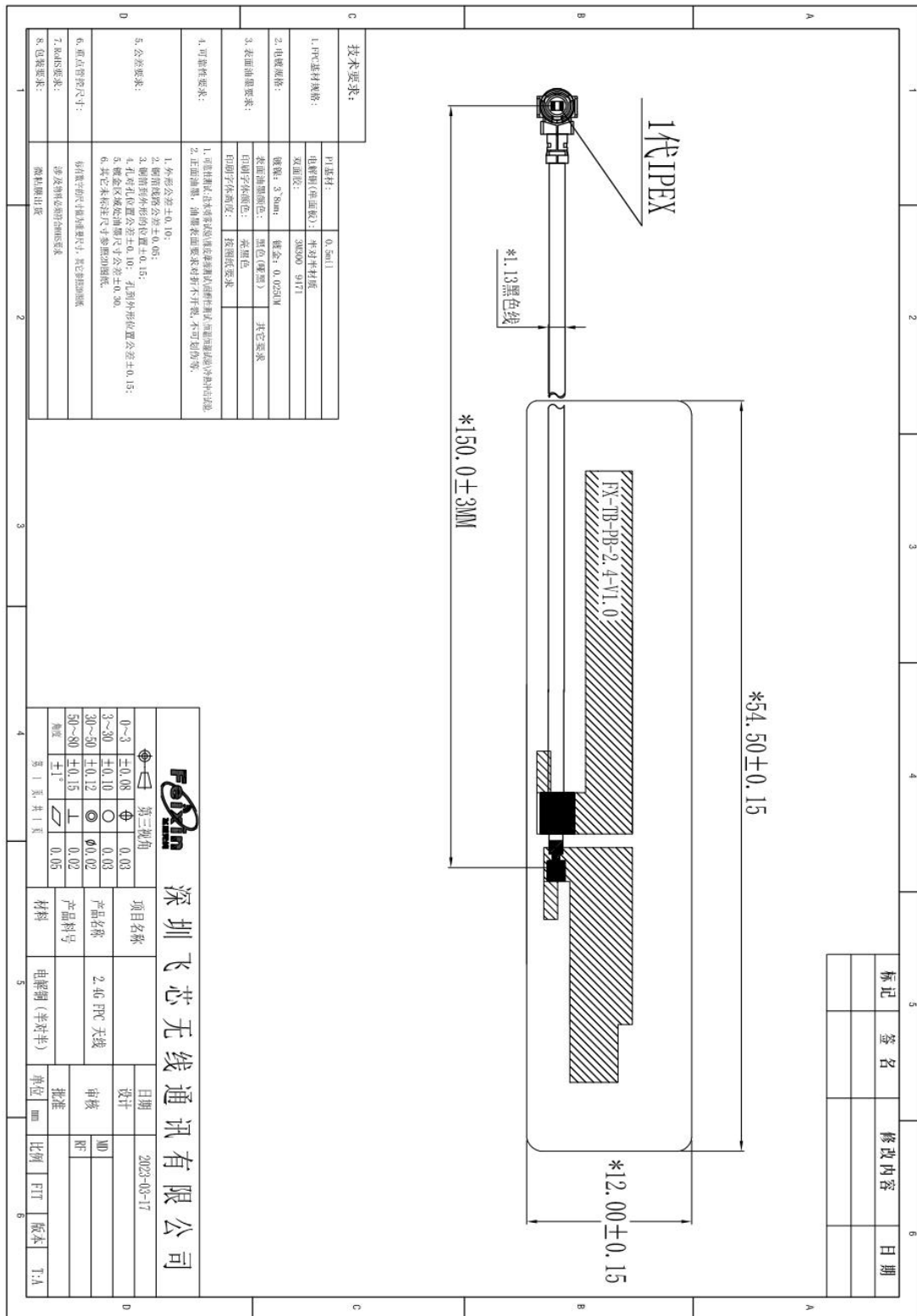
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4、Product structure drawing



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