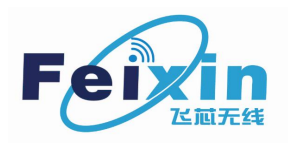


SPECIFICATION

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 SMT steel antenna

Product specification

Customer		Frequency	2400MHz——2500MHz 5150——5850MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2025-07-15

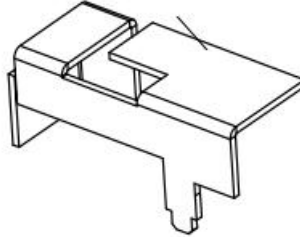
Customer confirmation:

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

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1、Product pictures

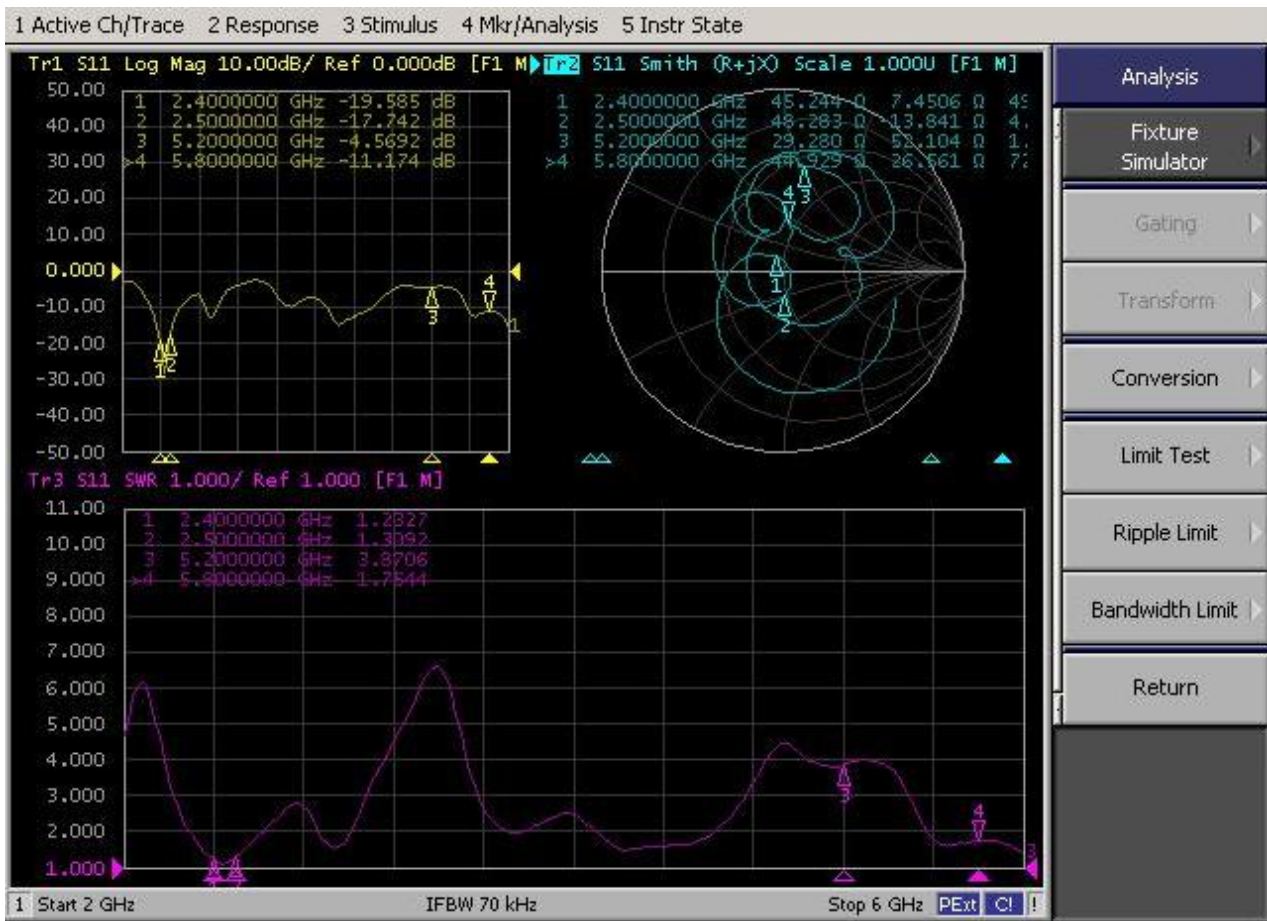


2、Product parameters

Product testing parameters			
产品名称(Name)	2.4G-5.8G antenna	产品型号(Model Type)	FX-2.4G-5.8G-GP-SM T-1001
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)	2.73/2.35dBi	带宽 (Bandwidth)	100/700MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	15.0*6.0*6.2* ± 0.2 mm	天线颜色(Ant Color)	Silver one
连接器型号 (Connector)	SMT plug-in soldering	引线长度(Cable Length)	\
天线材料 (Ant Material)	304 nickel plating		
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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 Shanghai Company: 202, Building 16, No. 618 Dingyuan Road, Songjiang District, Shanghai Tel: +86-021-52060235 Fax:
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4. Antenna passive test data:

(1) Antenna efficiency and gain:

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	5150.0	1.48	45.9%
2	5170.0	1.31	45.8%
3	5190.0	1.34	44.7%
4	5210.0	0.96	43.7%
5	5230.0	1.84	44.9%
6	5250.0	2.06	46.7%
7	5270.0	1.91	48.9%
8	5290.0	1.58	44.3%
9	5310.0	1.57	44.7%
10	5330.0	1.12	44.6%
11	5350.0	1.47	45.4%
12	5370.0	1.19	45.2%
13	5390.0	0.94	43.1%
14	5410.0	1.00	41.2%
15	5430.0	1.05	45.9%
16	5450.0	0.76	44.0%
17	5470.0	0.43	43.0%
18	5490.0	0.90	43.4%
19	5510.0	0.43	42.6%
20	5530.0	0.47	40.1%
21	5550.0	0.65	41.1%
22	5570.0	0.34	39.6%
23	5590.0	0.20	39.4%
24	5610.0	0.49	39.6%
25	5630.0	0.73	40.9%
26	5650.0	0.34	40.3%
27	5670.0	0.56	39.5%
28	5690.0	1.03	45.5%
29	5710.0	1.55	42.7%
30	5730.0	2.35	48.5%
31	5750.0	1.49	43.9%
32	5770.0	0.78	40.2%
33	5790.0	0.57	37.9%
34	5810.0	0.47	41.3%
35	5830.0	0.31	41.2%
36	5850.0	0.06	44.4%

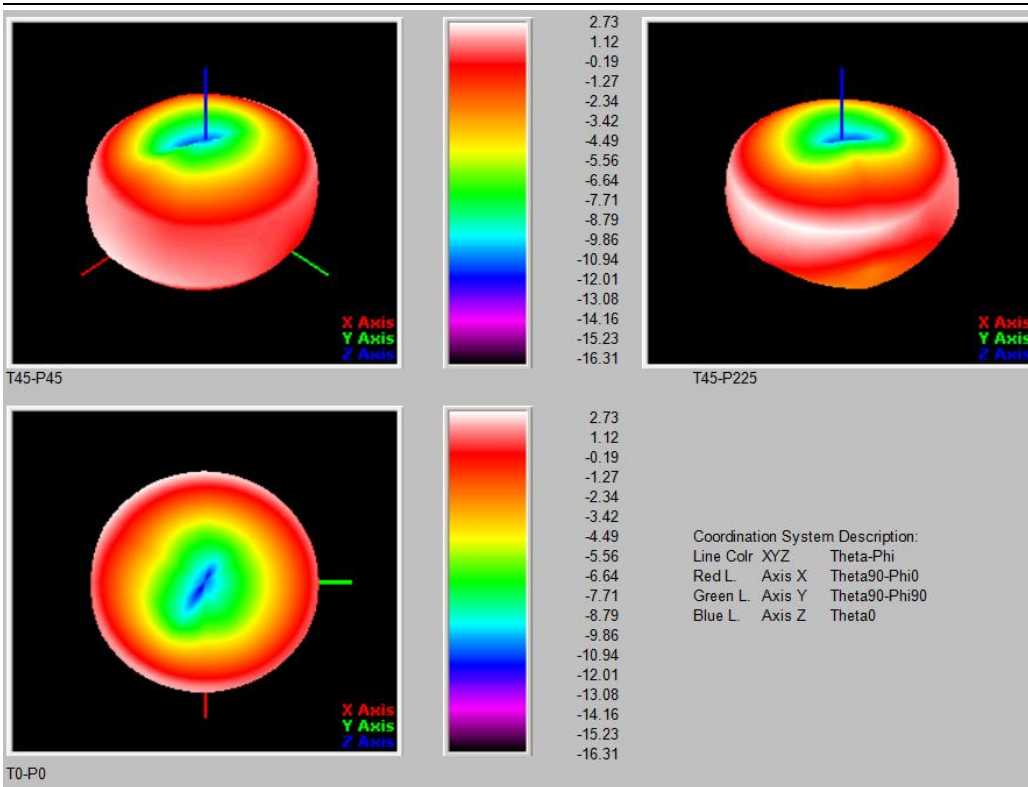
Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
1	2400.0	1.07	47.9%
2	2410.0	0.78	42.6%
3	2420.0	1.60	49.1%
4	2430.0	1.17	44.0%
5	2440.0	2.00	50.4%
6	2450.0	2.03	49.9%
7	2460.0	2.37	50.0%
8	2470.0	2.44	49.7%
9	2480.0	2.43	46.8%
10	2490.0	2.73	50.2%
11	2500.0	2.51	45.9%

(2) Apple chart and direction chart

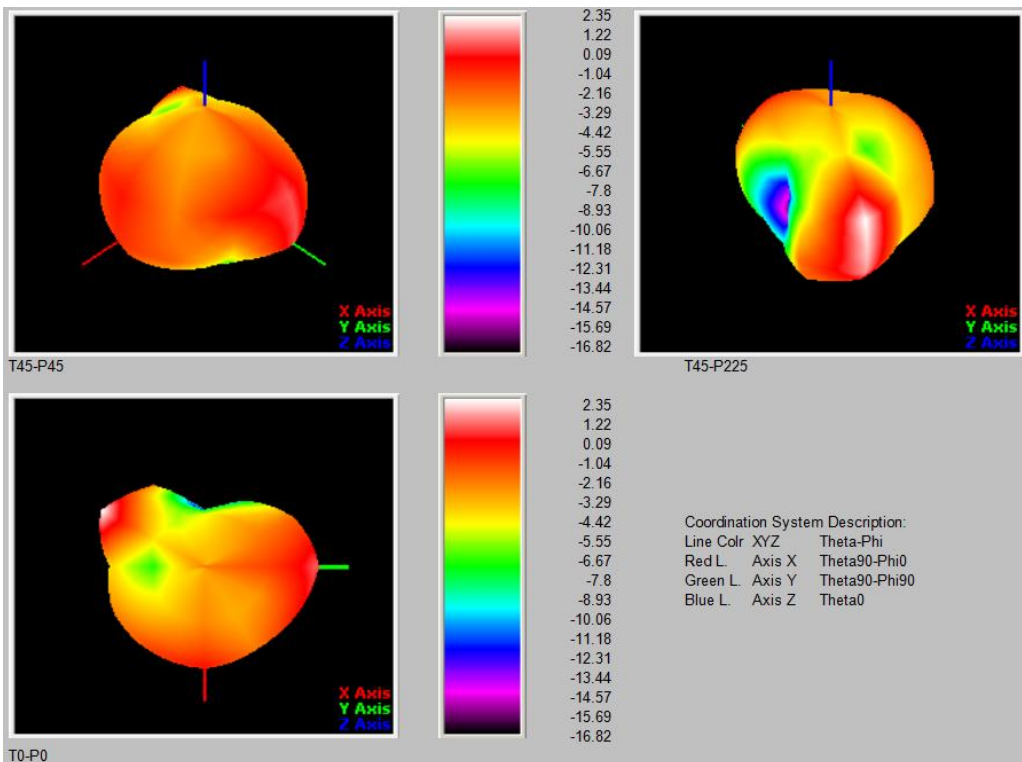
(2-1) Passive -Freq2490.00MHZ

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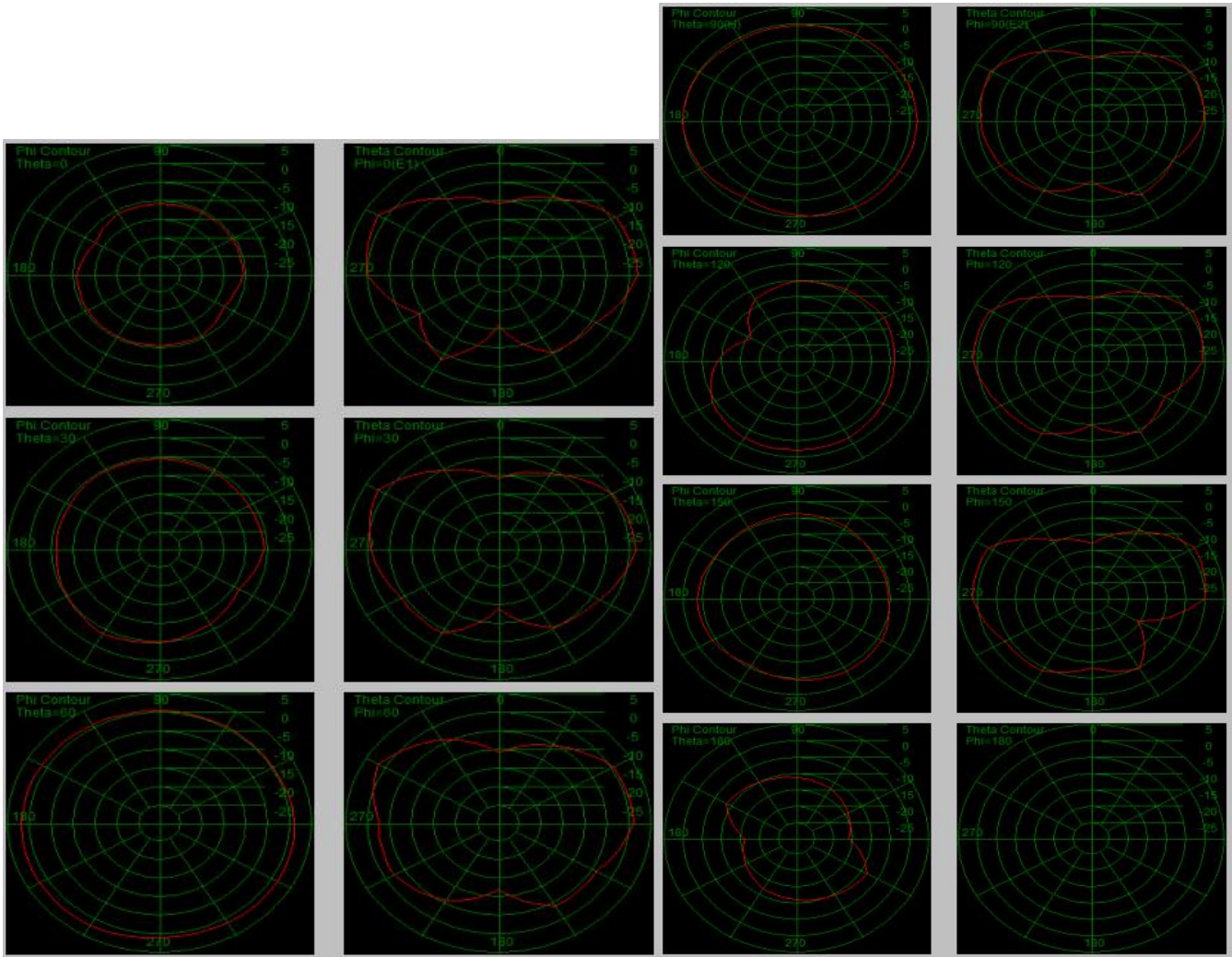
(2-2) Passive -Freq5730.00MHZ



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Passive -Freq2490.00MHZ



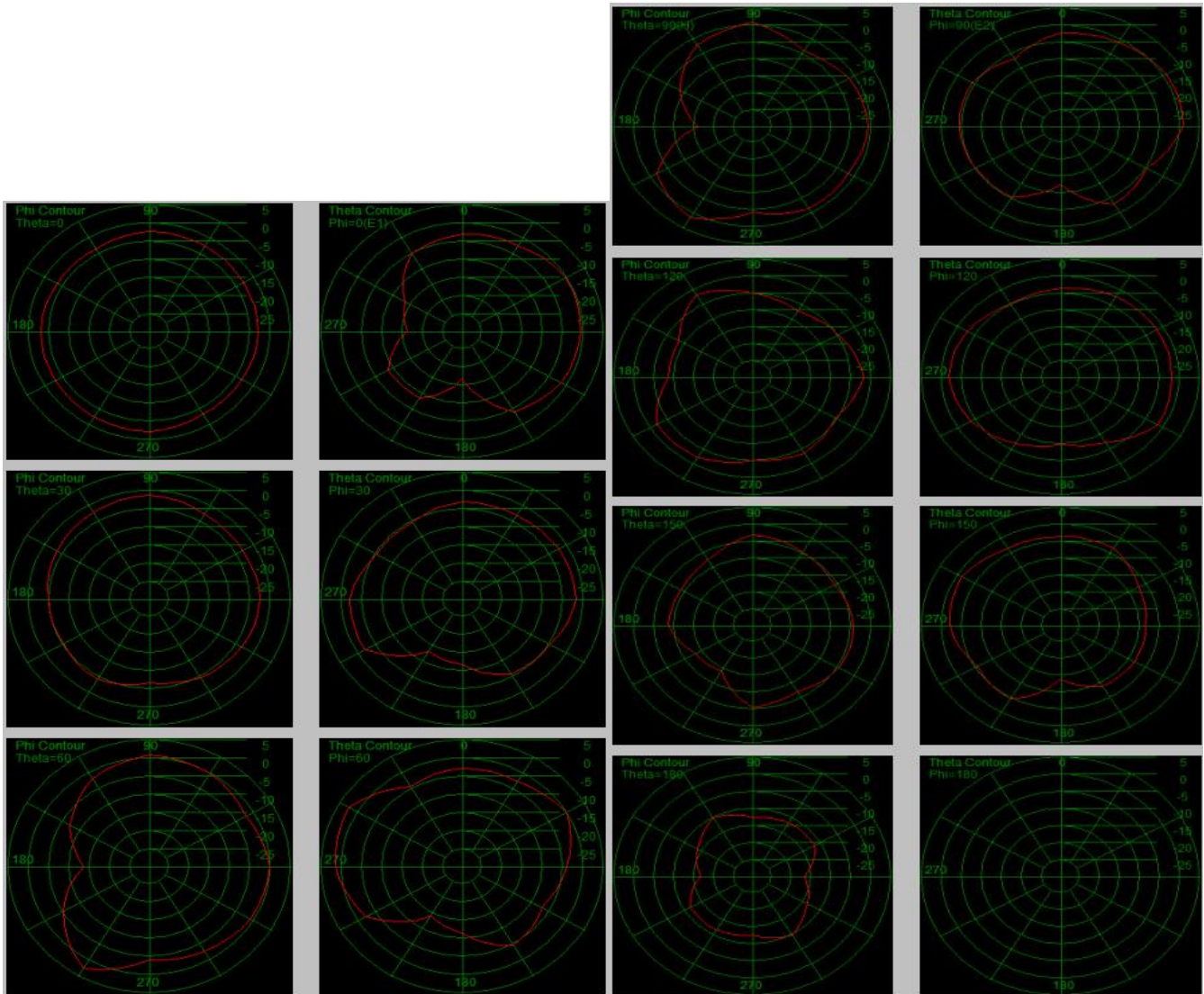
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Passive -Freq5730.00MHZ



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4、 Product structure drawing

