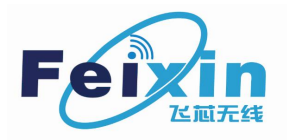


SPECIFICATION

Shenzhen Feixin Wireless Communication



深圳飞芯无线通讯有限公司

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G FPC Antenna

Product specification

Customer		Frequency	2400MHz——2500MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2024-05-07

Customer confirmation:

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

Directory

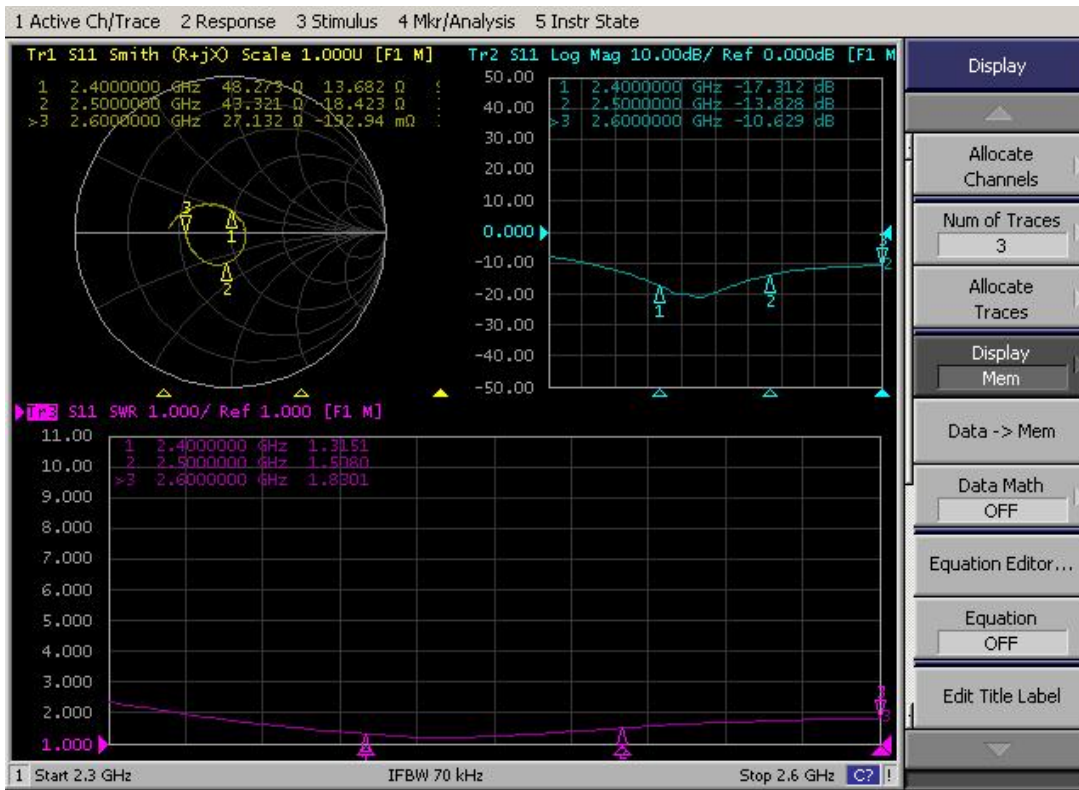
Cover	1
1、 Directory.....	2
2、 Product pictures	3
3、 S11 data	4
4、 Antenna passive test data:.....	4
5、 Product structure drawing.....	9

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-1014010017
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400-2500MHZ	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)	3dBi	带宽 (Bandwidth)	100
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	41.2*8 \pm 0.15 mm	天线颜色(Ant Color)	black
连接器型号 (Connector)	IPEX 1D		
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



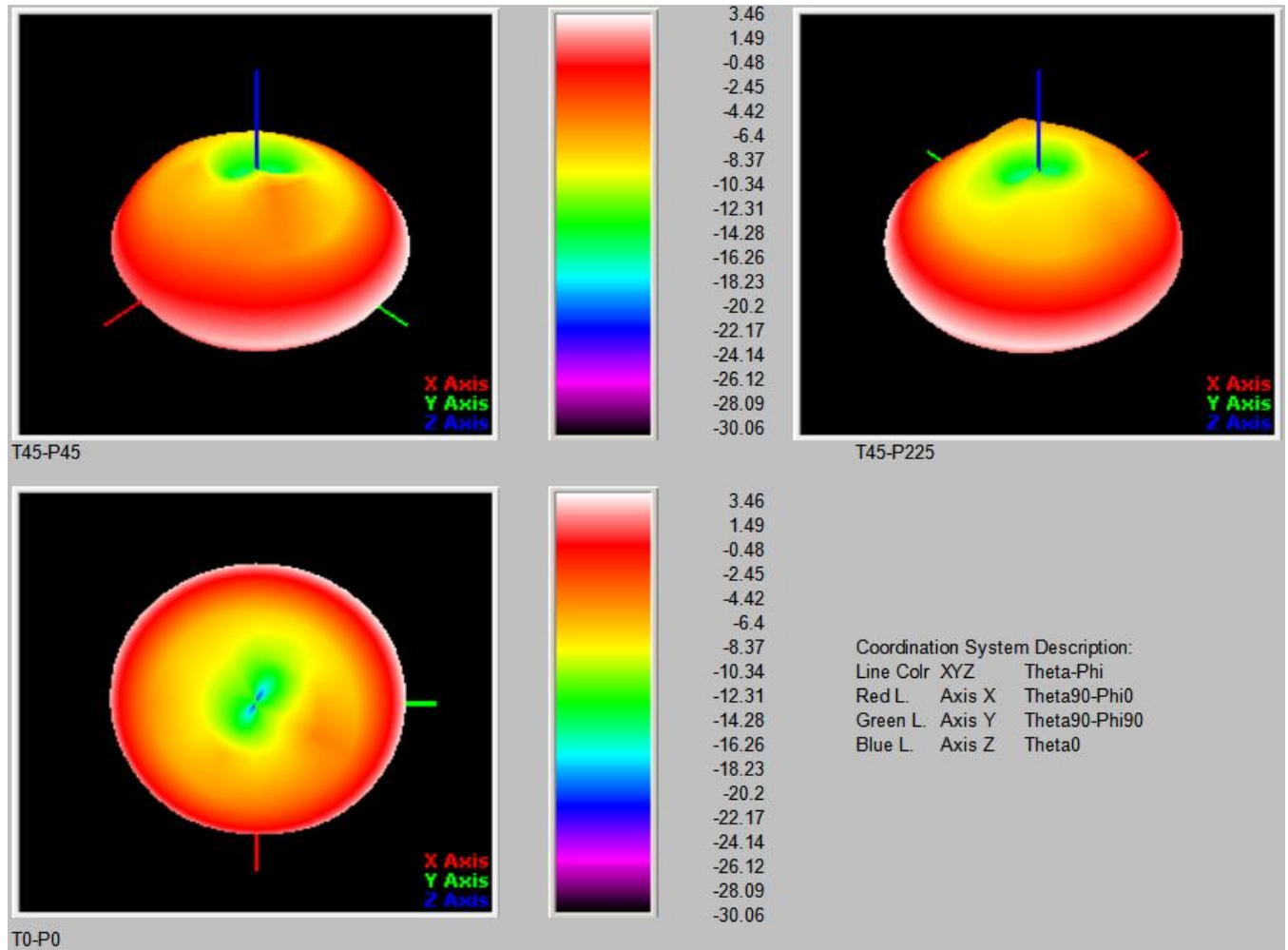
(1) Antenna efficiency and gain:

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)
1	2400.0	2400.00	3.46	5.18	43.2%
2	2410.0	2410.00	2.95	4.69	44.7%
3	2420.0	2420.00	3.39	4.99	45.4%
4	2430.0	2430.00	2.67	4.59	46.2%
5	2440.0	2440.00	2.84	4.61	45.8%
6	2450.0	2450.00	2.69	4.50	47.3%
7	2460.0	2460.00	2.69	4.39	46.9%
8	2470.0	2470.00	2.62	4.54	45.8%
9	2480.0	2480.00	2.37	4.26	45.0%
10	2490.0	2490.00	2.65	4.42	44.3%
11	2500.0	2500.00	2.29	3.98	43.9%

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Passive-Freq2400.00MHZ

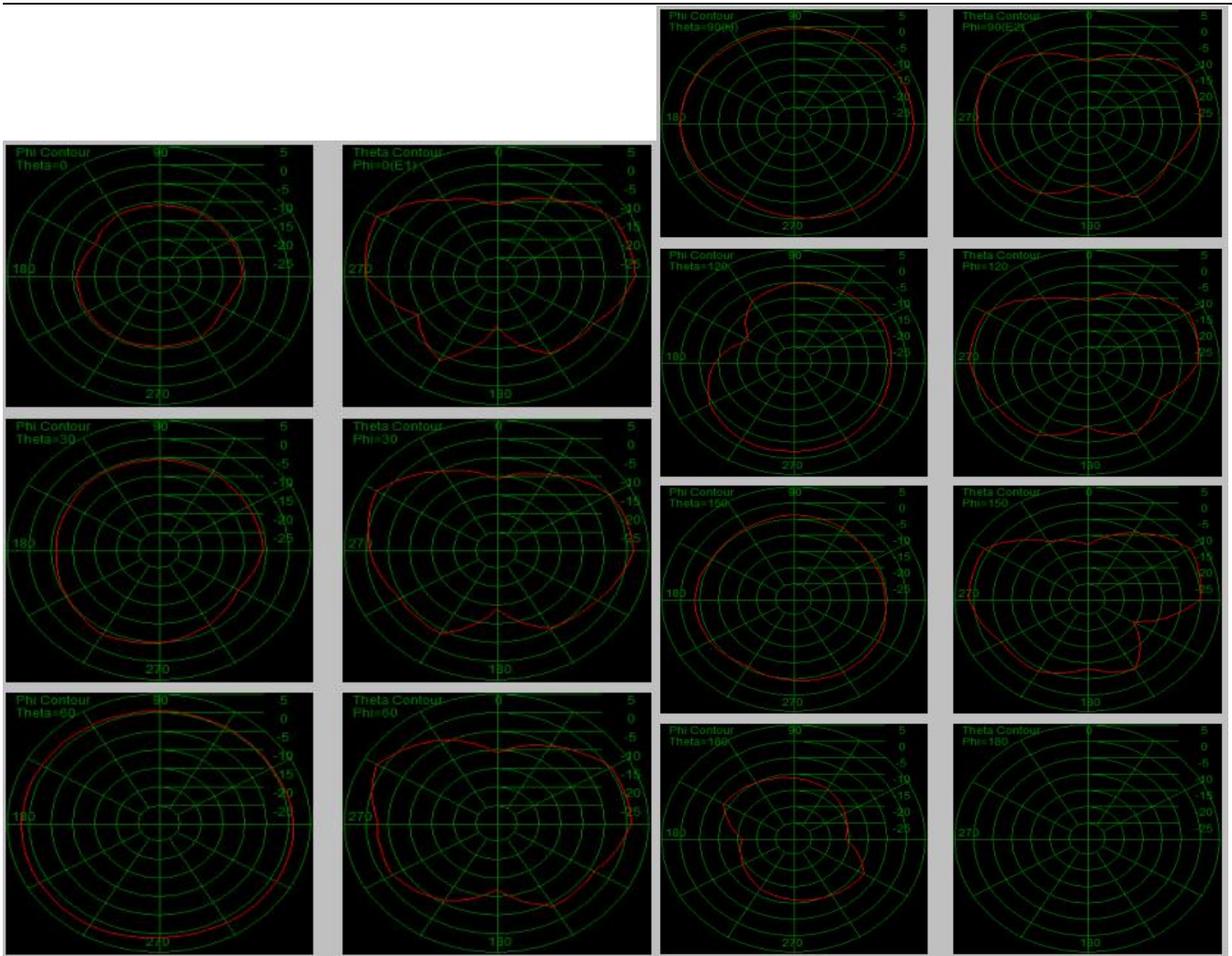


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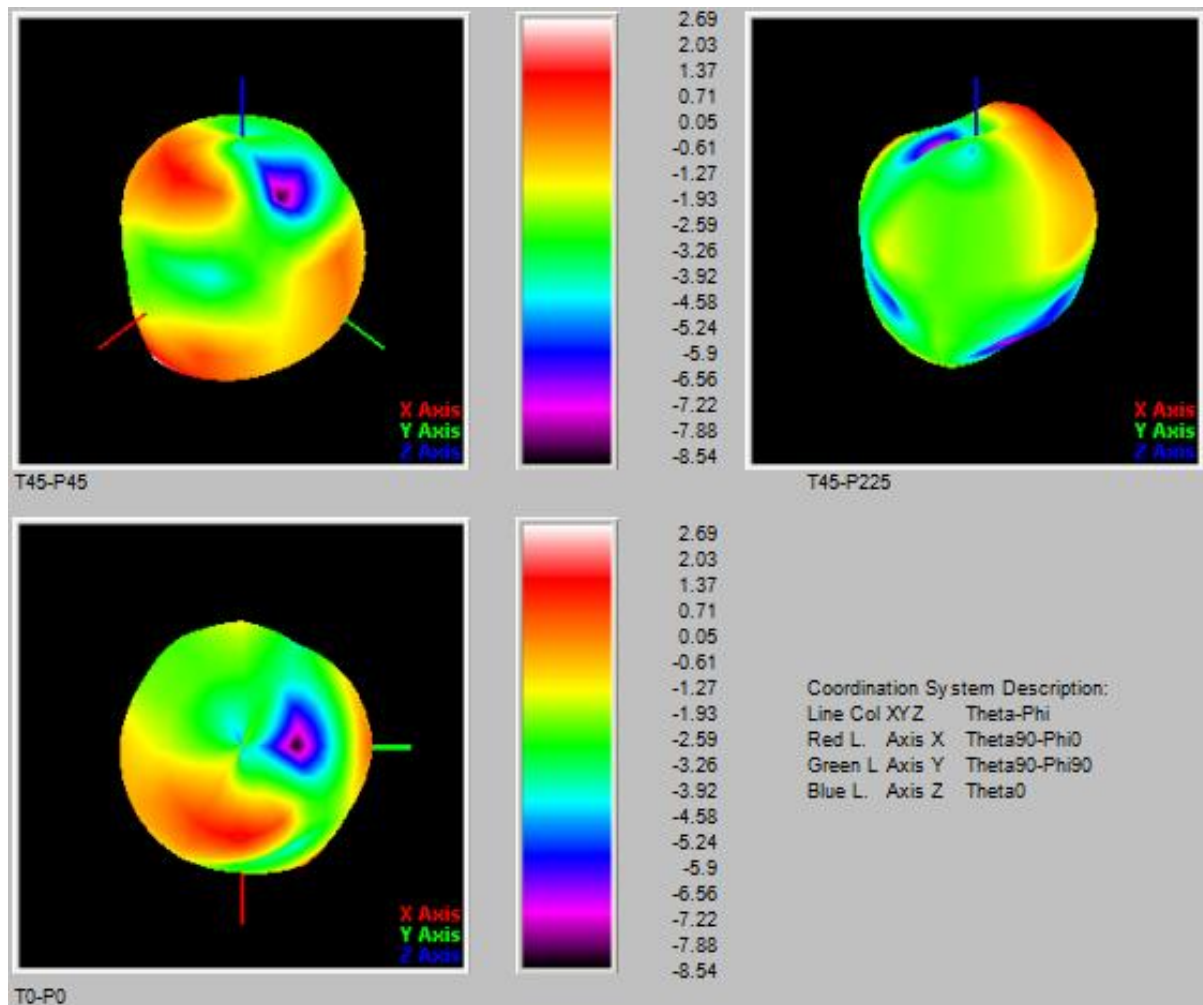
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Passive -Freq2450.00MHZ



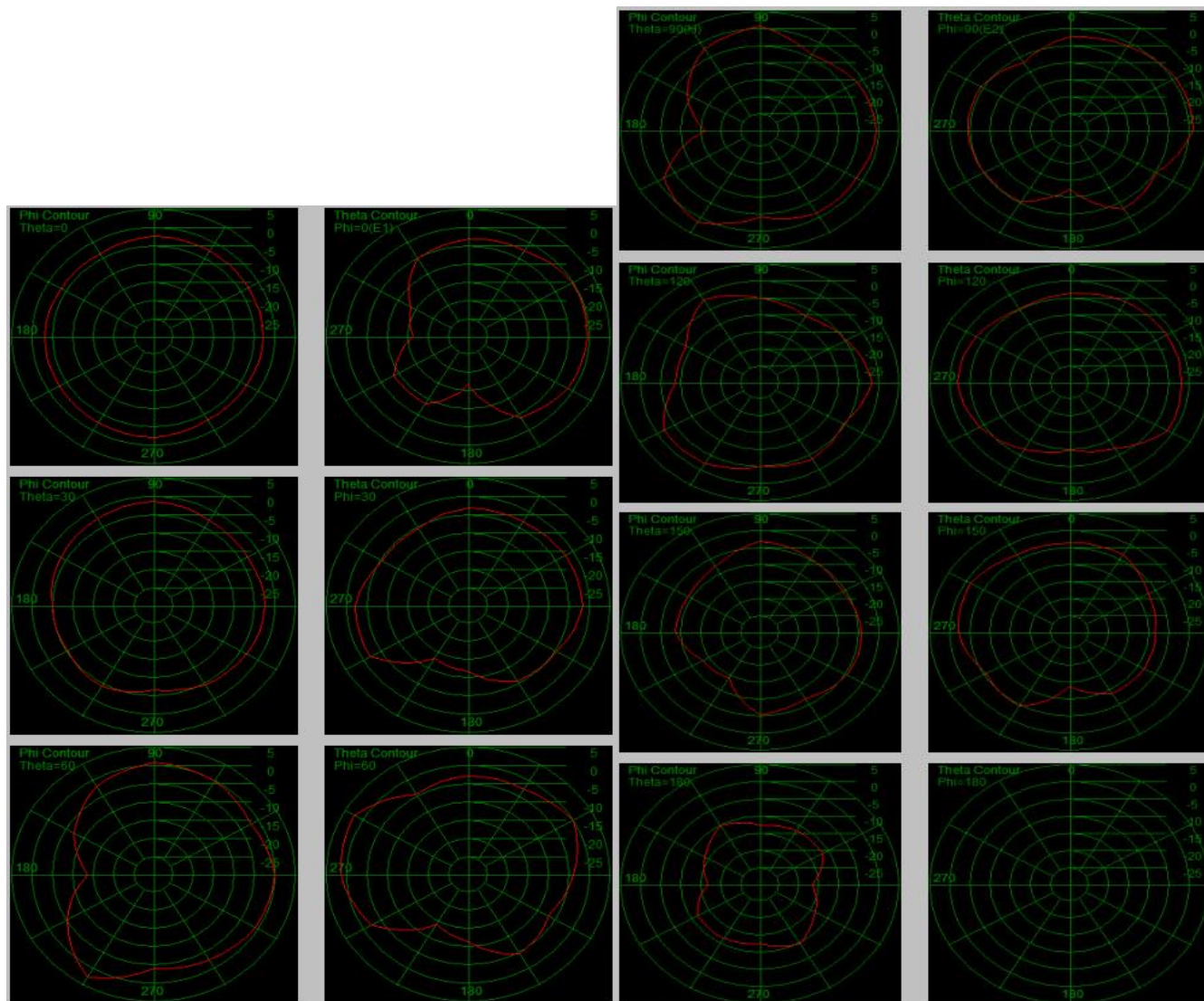
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Passive -Freq2450.00MHZ



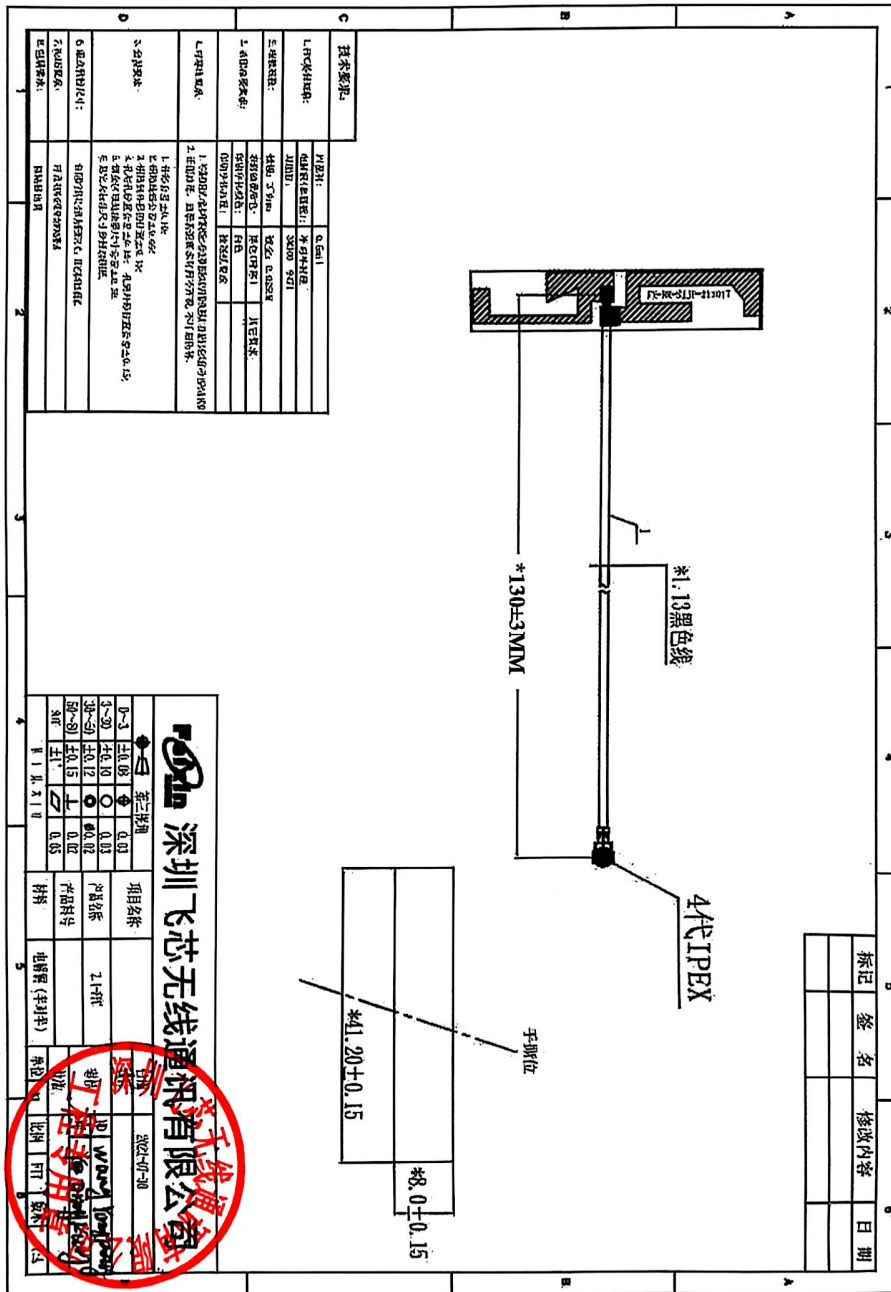
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4、Product structure drawing



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