

# 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 Rod Antenna Product specification

|                    |          |           |                  |
|--------------------|----------|-----------|------------------|
| Customer           |          | Frequency | 2400MHz——2500MHz |
| R F design         | XIAO BIN | Version   | A1               |
| Technical director | ANDY     | date      | 2024-04-02       |

Customer confirmation:

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

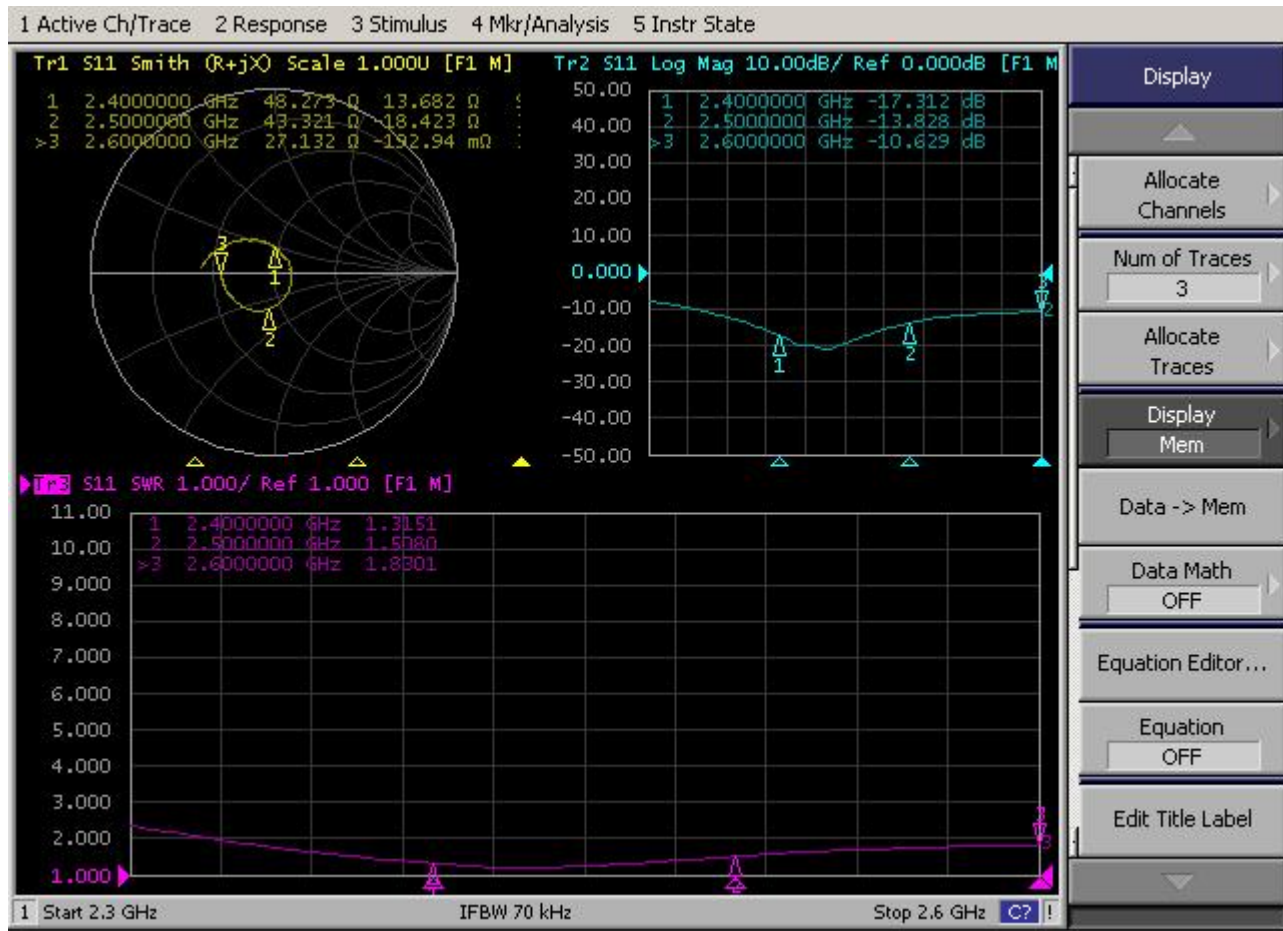
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## 2、Product parameters

| 产品测试参数                                |                                   |                               |                                   |
|---------------------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| 产品名称(Name)                            | 2.4G Rod antenna                  | 产品型号(Model Type)              | FX-2.4G-BZ-1.13B-220-1            |
| 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 $\Omega$                       | 辐 射 方 向 (Radiation direction) | 全向(Omnidirectional)               |
| 驻波比 (VSWR)                            | $\leq 3.0$                        | 功率容量(Power)                   | 50W                               |
| 增益(Gain)                              | 3.87 dBi                          | 带宽 (Bandwidth)                | 100MHz                            |
| 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 1 代                          | 引线长度(Cable Length)            | 220 $\pm$ 5 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 |

### 3. VSWR, Return loss and Smith data



### 4. Antenna passive test data:

#### (1) Antenna efficiency and gain:

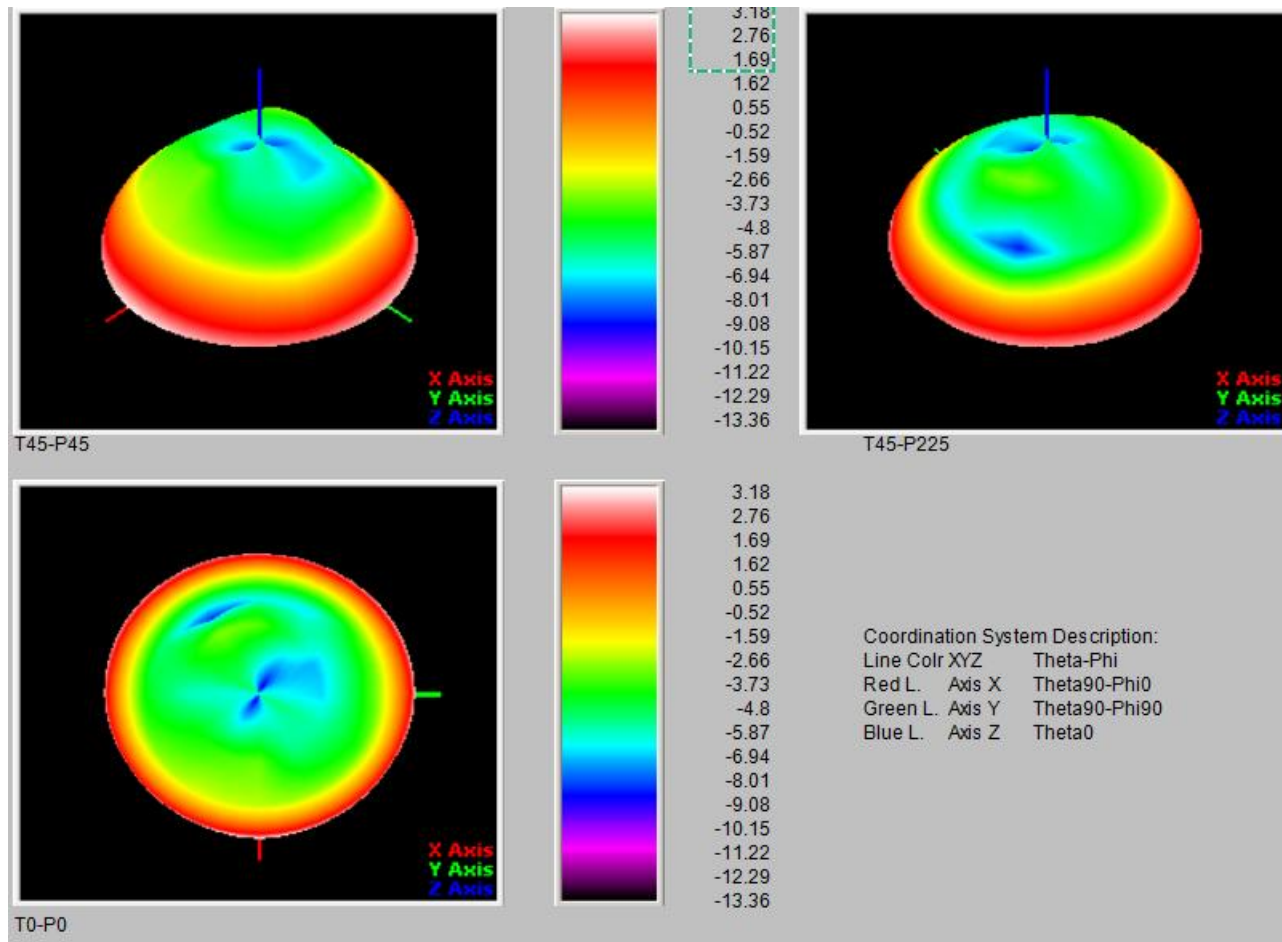
| Freq. (MHz) | Gain (dBi) | Efficiency (%) |
|-------------|------------|----------------|
| 2400.0      | 2.59       | 65.8%          |
| 2410.0      | 2.34       | 73.1%          |
| 2420.0      | 3.18       | 71.3%          |
| 2430.0      | 2.83       | 67.9%          |
| 2440.0      | 3.46       | 73.9%          |
| 2450.0      | 3.49       | 76.5%          |
| 2460.0      | 3.75       | 75.8%          |
| 2470.0      | 3.78       | 75.8%          |
| 2480.0      | 3.62       | 70.1%          |
| 2490.0      | 3.87       | 73.7%          |
| 2500.0      | 3.54       | 78.2%          |

#### (2) Apple chart and direction chart

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Passive - Freq2420.00 MHZ

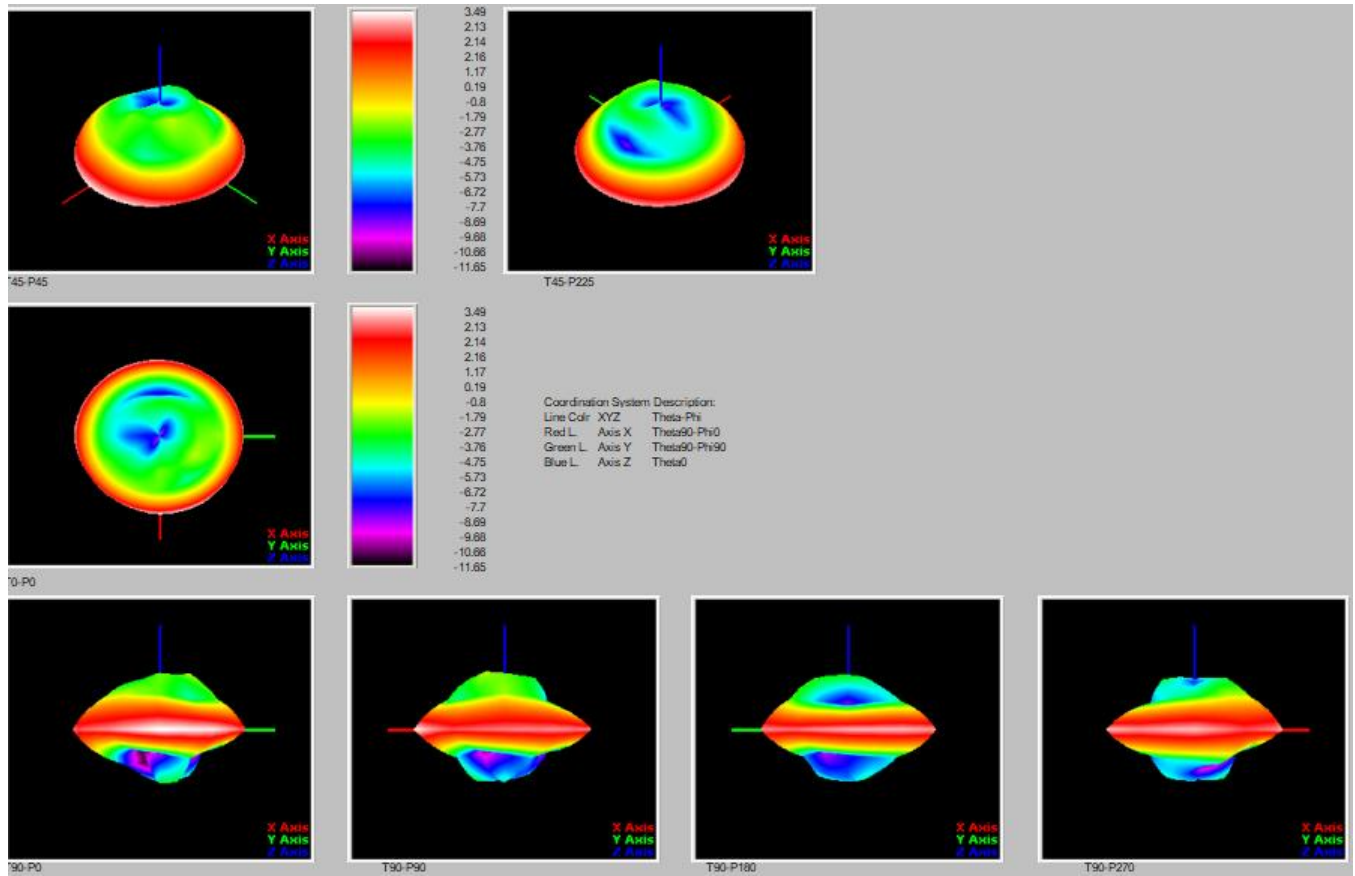




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# Passive-Freq2450.00MHZ



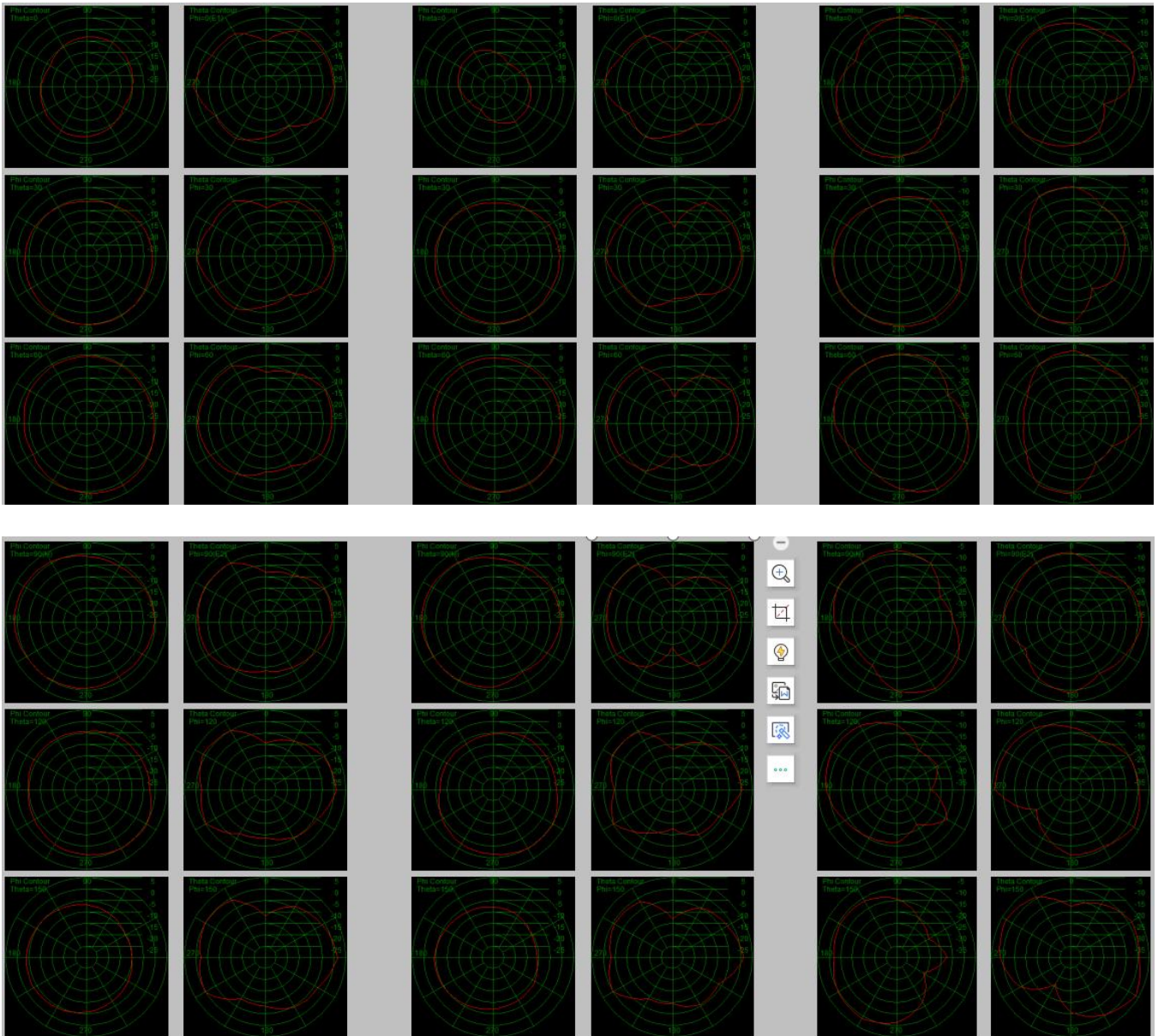
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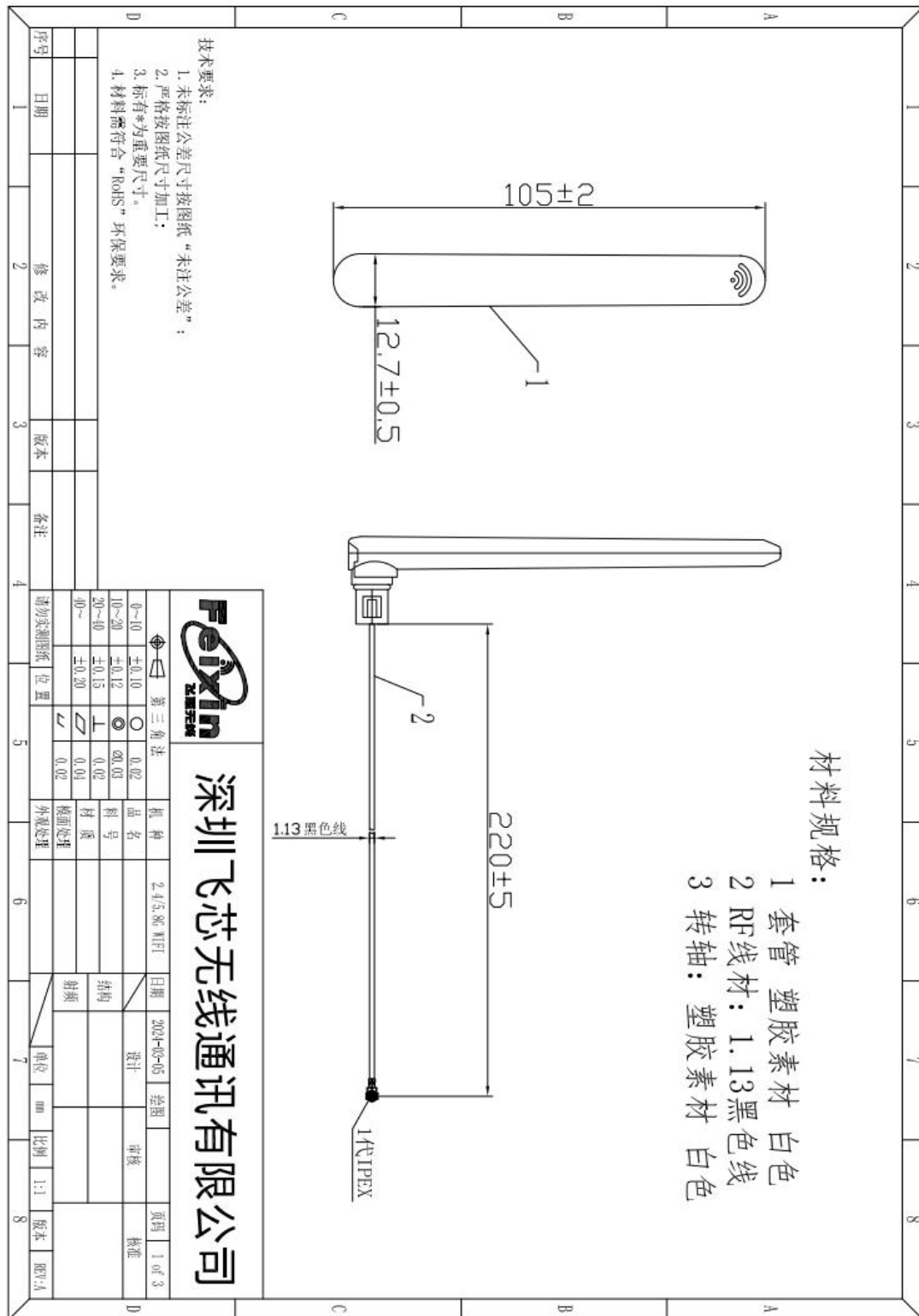
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## 5、Product structure drawing



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