

# SPECIFICATION

*Shenzhen Feixin Wireless Communication Co., Ltd.*

## **2.4G FPC antenna**

### **Product specification**

|                           |          |                  |                                |
|---------------------------|----------|------------------|--------------------------------|
| <b>Customer</b>           |          | <b>Frequency</b> | 2400——2500MHz<br>5150——5835MHZ |
| <b>R F design</b>         | XIAO BIN | <b>Version</b>   |                                |
| <b>Technical director</b> | ANDY     | <b>date</b>      | 2025-10-21                     |

Customer confirmation:

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

# Confidentiality requirements

Our company already possesses the proprietary technology provided, and these proprietary information should be strictly kept confidential. Without the prior written consent of Shenzhen Feixin Wireless Communication Co., Ltd., it is not allowed to be disclosed to anyone or the company.

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## Directory

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| <b>Cover .....</b>                                              | <b>1</b>  |
| <b>1、Directory.....</b>                                         | <b>2</b>  |
| <b>2、Product pictures .....</b>                                 | <b>3</b>  |
| <b>3、S11 data .....</b>                                         | <b>4</b>  |
| <b>4、Antenna test data (gain, efficiency, apple chart).....</b> | <b>4</b>  |
| <b>5、Product structure drawing.....</b>                         | <b>14</b> |

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## 1、Product pictures



## 2、Product parameters

| Product testing parameters          |                                    |                          |                                    |
|-------------------------------------|------------------------------------|--------------------------|------------------------------------|
| 产品名称(Name)                          | <b>2.4G WIFI</b>                   | 产品型号(Model Type)         | FX-YK08-081B-L70-1                 |
| 电 能 指 标 (Electrical Specifications) |                                    |                          |                                    |
| 频率范围 (Frequency Range)              | 2400-2500MHZ                       | 极化方式 (Polarization)      | vertical                           |
| 输入阻抗(Impedance)                     | 50 $\Omega$                        | 辐射方向                     | Omnidirectional                    |
| 驻波比 (VSWR)                          | $\leq 3.0$                         | 功率容量(Power)              | 50W                                |
| 增益(Gain)                            | 2dbi                               | 带宽 (Bandwidth)           | 100MHz                             |
| 机 械 指 标 (Mechanical Specifications) |                                    |                          |                                    |
| 尺寸 (Dimensions)                     | 20.94*9.20 $\pm$ 0.15mm            | 外壳颜色(ANT Color)          | black                              |
| 连接器型号 (Connector)                   | IPEX 1                             | 引线长度(Cable Length)       | 70 $\pm$ 3 mm                      |
| 外壳材料 Radome Material                | -40 $^{\circ}$ C--+85 $^{\circ}$ C |                          |                                    |
| 工作温度 (Working Temperature)          | 20.94*9.20 $\pm$ 0.15mm            | 存放温度 (Limit Temperature) | -40 $^{\circ}$ C--+85 $^{\circ}$ C |

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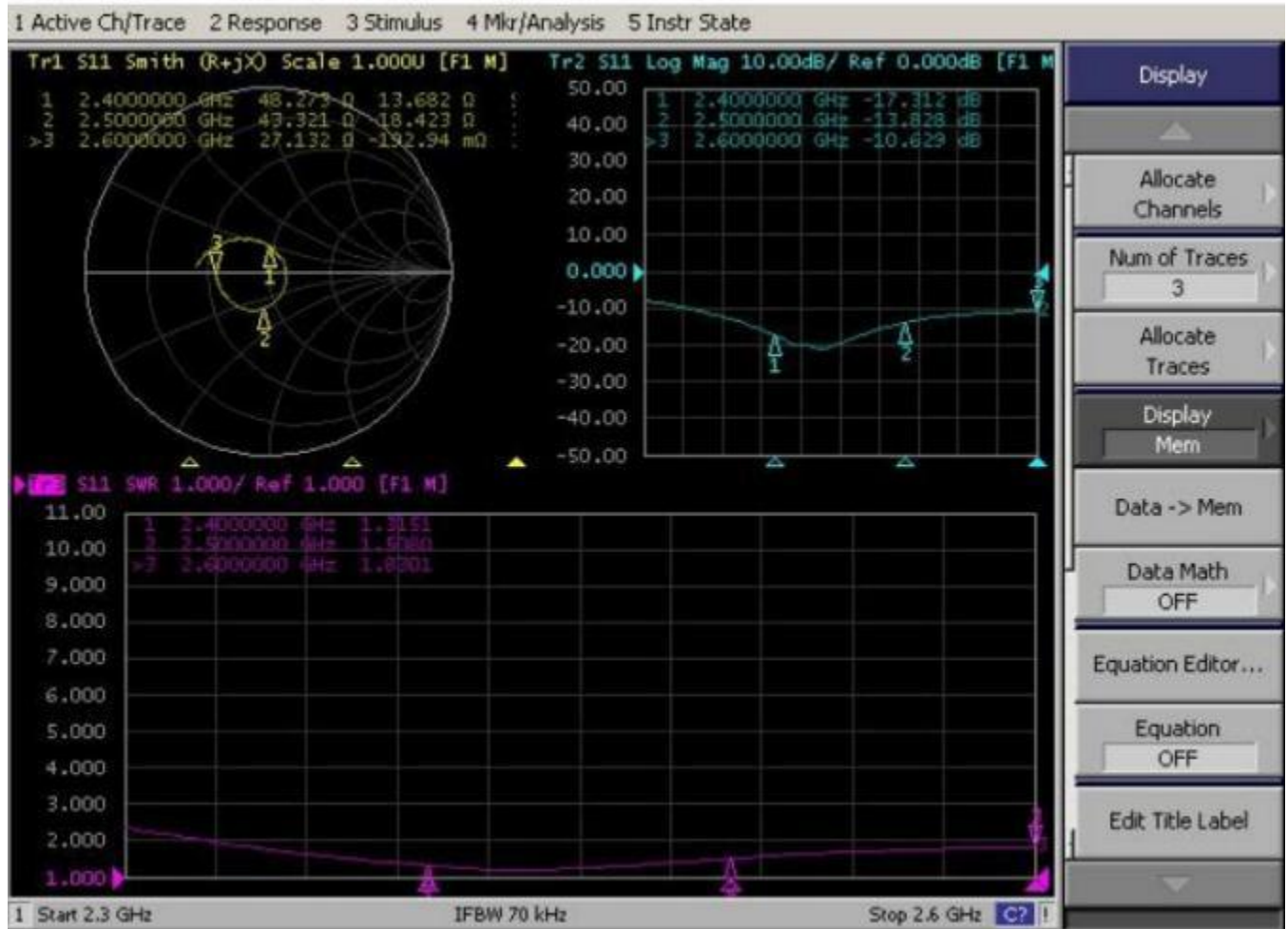
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## 3. VSWR, Return loss and Smith data



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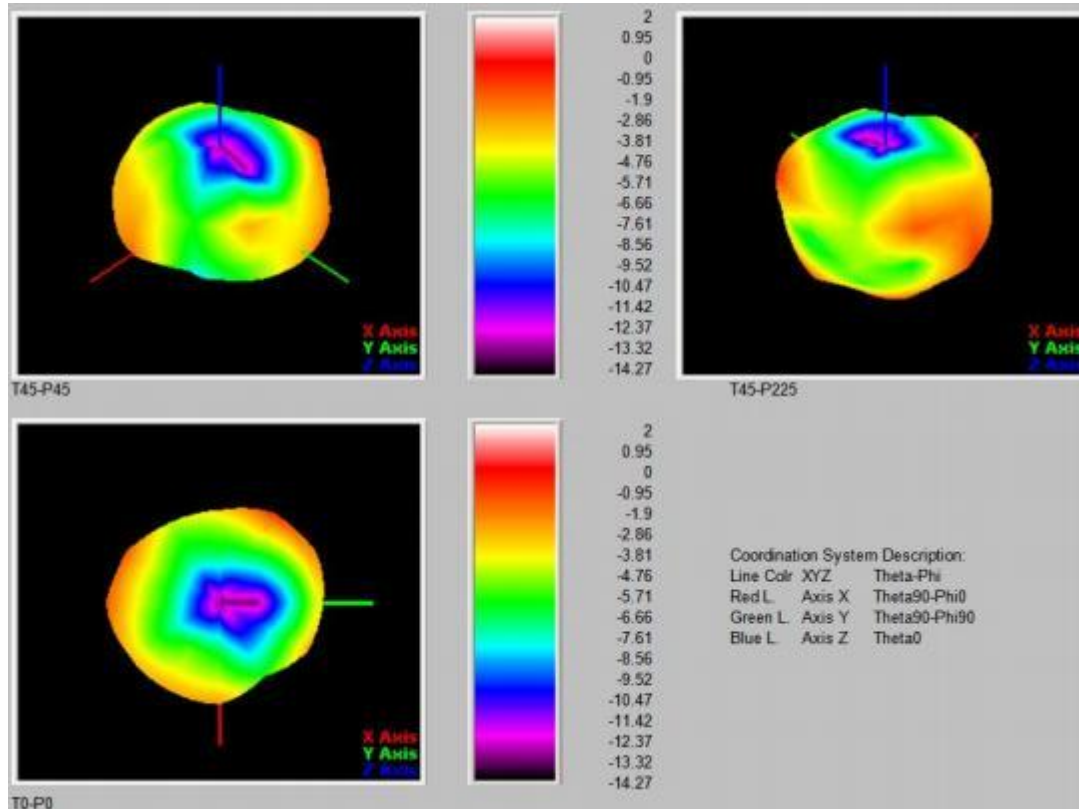
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#### 4、Antenna test data (gain, efficiency, apple chart)

| Test Point ID | Freq. (MHz) | Gain (dBi) | Efficiency (%) |
|---------------|-------------|------------|----------------|
| <u>1</u>      | 2400.0      | 1.73       | 46.2%          |
| <u>2</u>      | 2410.0      | 1.67       | 36.3%          |
| <u>3</u>      | 2420.0      | 1.83       | 40.7%          |
| <u>4</u>      | 2430.0      | 1.53       | 37.5%          |
| <u>5</u>      | 2440.0      | 2.00       | 40.5%          |
| <u>6</u>      | 2450.0      | 1.56       | 40.7%          |
| <u>7</u>      | 2460.0      | 1.49       | 40.3%          |
| <u>8</u>      | 2470.0      | 1.21       | 42.1%          |
| <u>9</u>      | 2480.0      | 0.48       | 37.0%          |
| <u>10</u>     | 2490.0      | 0.45       | 41.0%          |
| <u>11</u>     | 2500.0      | 0.37       | 40.7%          |

Passive - Freq2440MHZ



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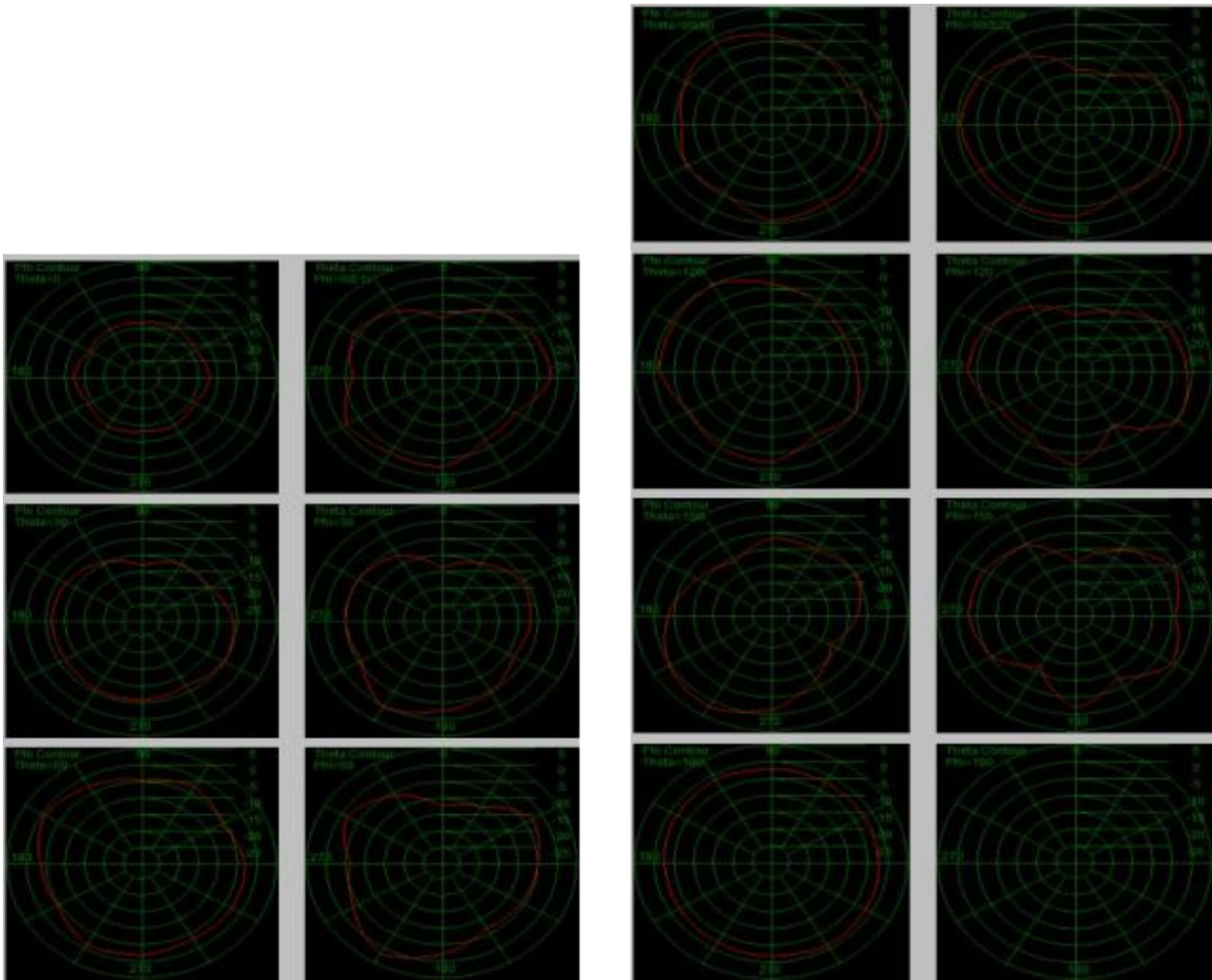
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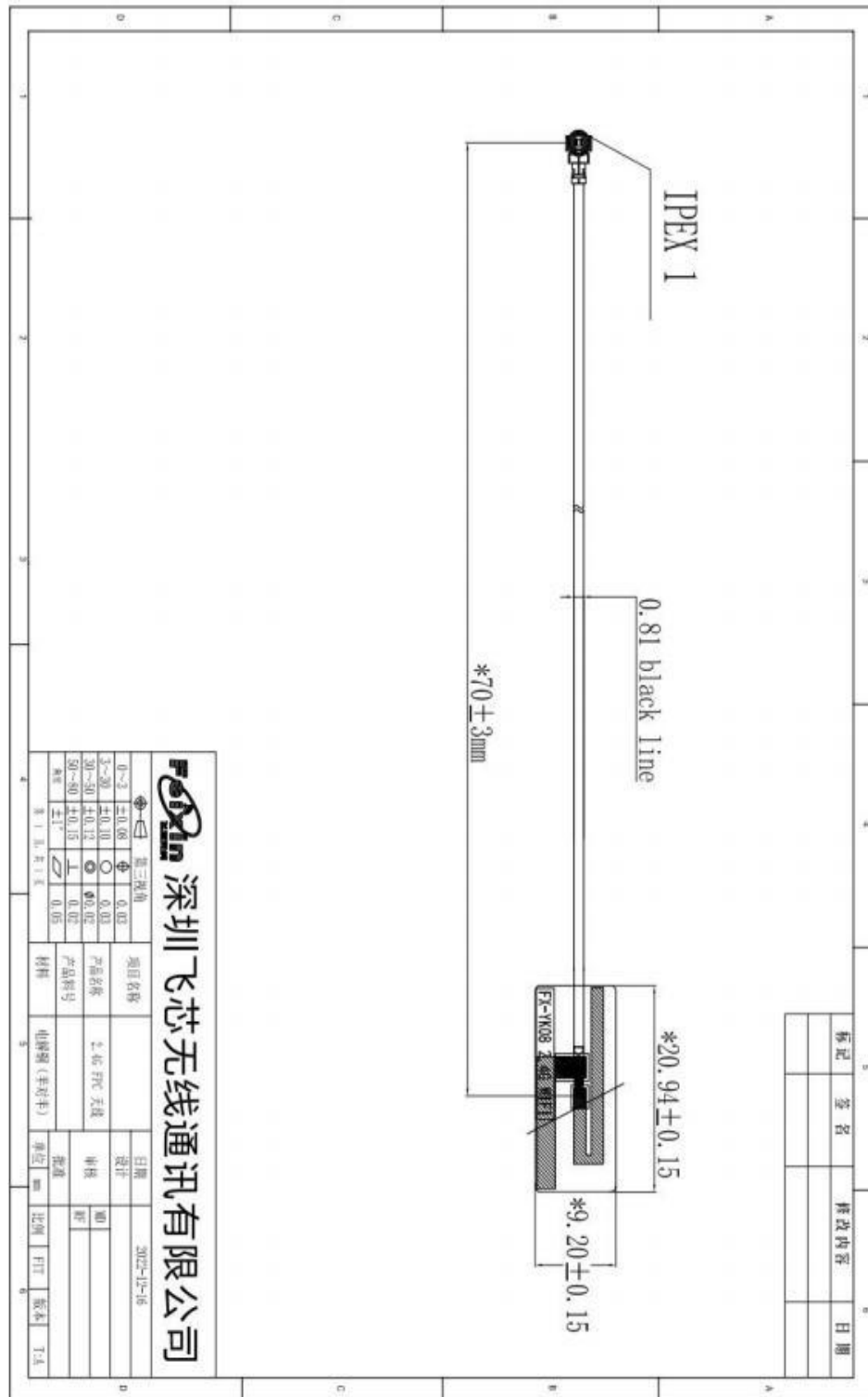
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## 5、Product structure drawing



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