



# 承认书

## Product Type

承认厂商:

Recognized manufacturers:

制造厂商: 深圳市科信无线技术有限公司

Manufacturer: Shenzhen Kexin Wireless Technology Co. LTD

产品名称: 2.4G-印字5cm天线

Description: PCB-5cm-2.4G Antenna

产品型号:

Model: KX-NZ-2.4G

Product Type

|                   |           |               |          |          |
|-------------------|-----------|---------------|----------|----------|
| Customer:         |           |               |          |          |
| Customer Approval | check     | examination   | approval | date     |
|                   |           |               |          |          |
| Provider:         |           |               |          |          |
| Provider Approval | make      | examine       | approval | date     |
|                   | Xiechunfa | Liujiangxiong | Wangfei  | 2022.8.8 |

Document Formulation, Revision , Abolition

|                  |            |        |
|------------------|------------|--------|
| Software version | date       | change |
| X0               | 2022.08.05 | first  |
|                  |            |        |



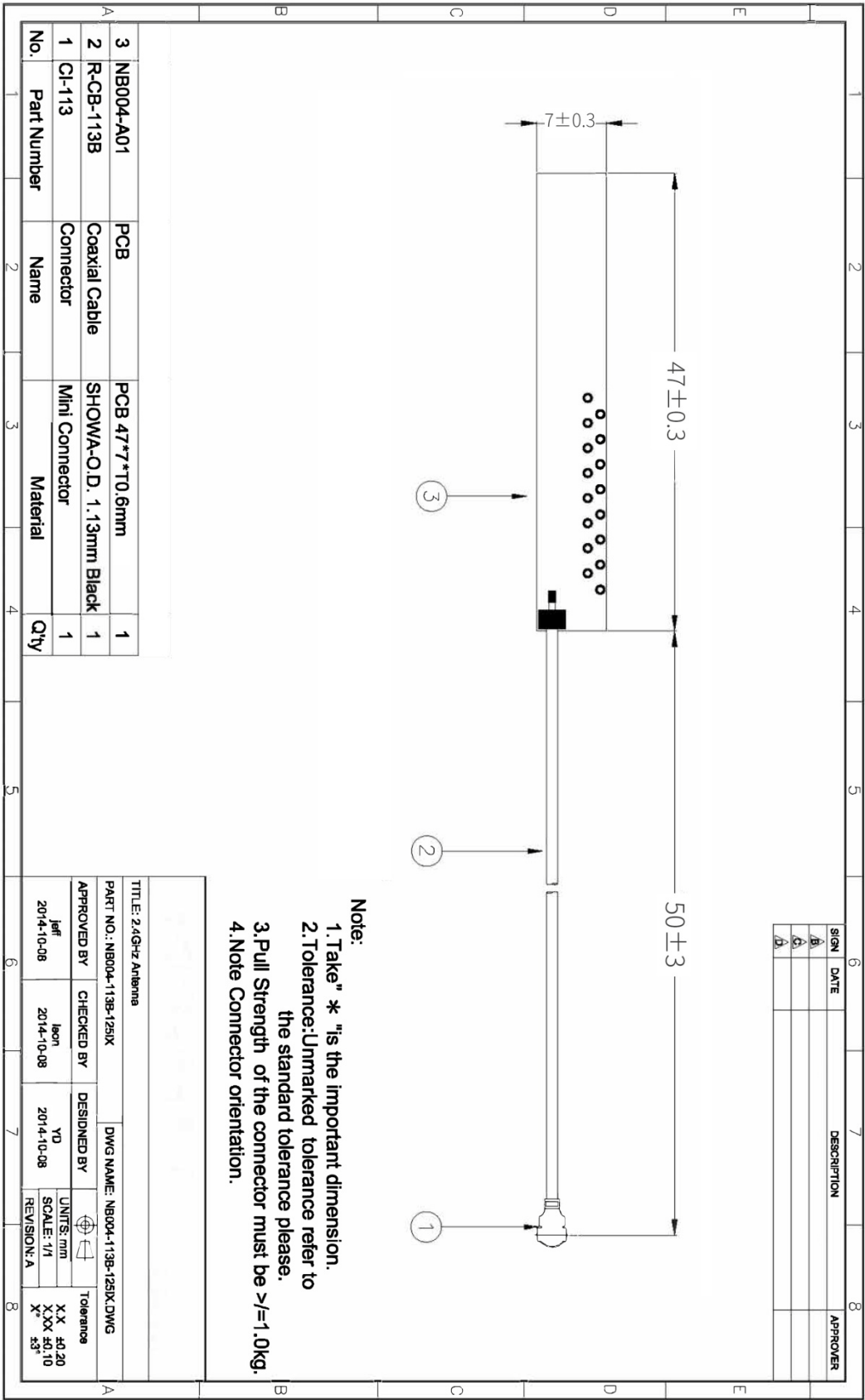
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## 1、产品性能参数performance parameter

| 电性能指标Electrical Specifications    |                                |
|-----------------------------------|--------------------------------|
| 频率范围Frequency Range (MHz)         | 2400-2500                      |
| 输入阻抗Input Impedence ( $\Omega$ )  | 50                             |
| 电压驻波比V.S.W.R                      | $\leq 2.0$                     |
| 增益Gain (dBi)                      | $2.0 \pm 0.5$                  |
| 极化形式Polarization Type             | 线性Linear                       |
| 最大功率Maximum power(W)              | 10W                            |
| 垂直面波瓣角度Vertical lobe Angle (E)    | $28 \sim 50^\circ$             |
| 水平面波瓣角度Water plane lobe Angle (H) | $360^\circ$                    |
| 机械指标Mechanical Specifications     |                                |
| 天线类型Antenna Type                  | Internally integrating antenna |
| 连接器型号Connect Type                 | IPEX                           |
| 天线尺寸Size                          | 47*7mm                         |
| 工作温度Operating Temp                | $-20 \sim +65^\circ\text{C}$   |
| 储存温度Storage Temp                  | $-30 \sim +75^\circ\text{C}$   |

2、产品设计图纸product drawing

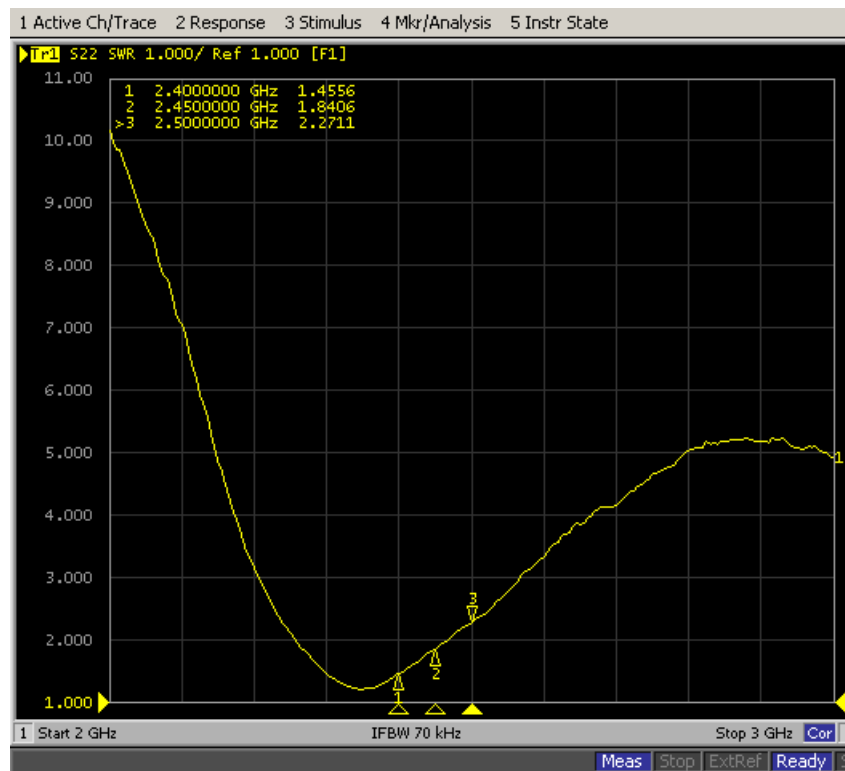


### 3、电气性能测试报告test report:

General information: Agilent E5071C / Microwave chamber

Reference Standard: GB/T 9410-2008; ANSI/IEEE Std 149-1979

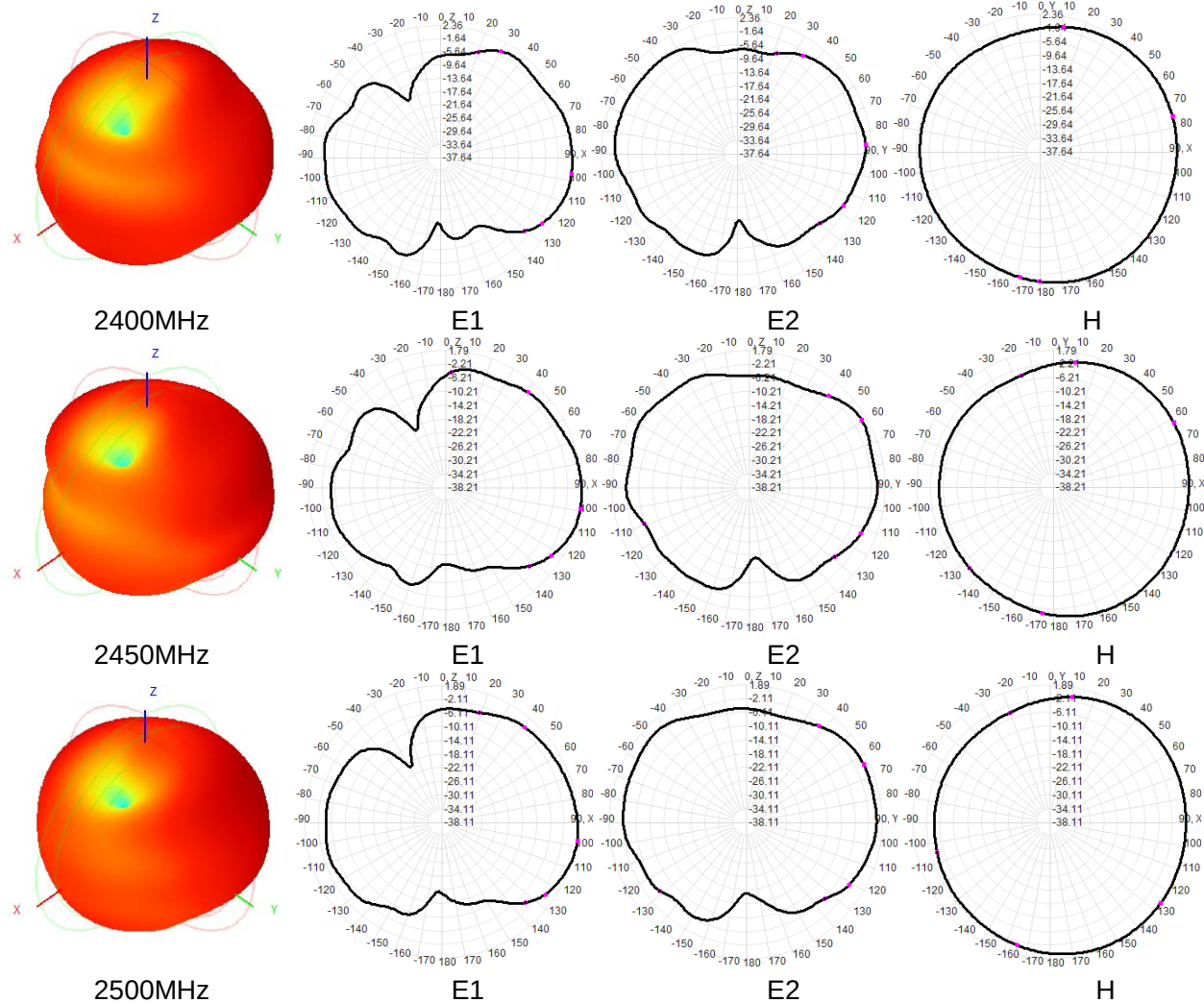
#### 3.1 VSWR:



### 3.2 Efficiency & Gain

| Frequency (MHz)<br>(工作频段) | Efficiency (%)<br>(效率) | Peak Gain (dBi)<br>(增益) |
|---------------------------|------------------------|-------------------------|
| 2400                      | 62.67                  | 2.37                    |
| 2410                      | 61.01                  | 2.29                    |
| 2420                      | 59.23                  | 2.20                    |
| 2430                      | 56.39                  | 2.08                    |
| 2440                      | 54.02                  | 1.92                    |
| 2450                      | 52.80                  | 1.80                    |
| 2460                      | 52.43                  | 1.72                    |
| 2470                      | 52.58                  | 1.67                    |
| 2480                      | 53.92                  | 1.72                    |
| 2490                      | 56.03                  | 1.88                    |
| 2500                      | 57.85                  | 1.99                    |

### 3.3 3D&2D pattern



#### 4、产品图片product photo



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*Ronnie Liu*

Ronnie Liu /Manager

2022.6.