



Shenzhen DEWEIMA Communication Equipment Co.Ltd

# SPECIFICATION SHEET FOR APPROVAL

|               |                |
|---------------|----------------|
| CUSTOMER NAME | Ningbo Youxing |
| CUSTOMER P/N  | UX33           |
| PART NAME     | 2.4G Antenna   |
| Material code |                |
| APPROVAL REV. | DVM-V1.0       |

|                   |               |               |                    |
|-------------------|---------------|---------------|--------------------|
| <b>CONTRACTOR</b> |               |               | DATE : 2023-04-01  |
| QA<br>CHECKED     | ME<br>CHECKED | RF<br>CHECKED | MANAGER<br>CHECKED |
| 高春彦               | 段燕林           | 陈显叶           | 余奇                 |

|                 |            |             |
|-----------------|------------|-------------|
| <b>CUSTOMER</b> |            | DATE :      |
| Approved By     | Checked By | Prepared By |
|                 |            |             |

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## 1. Product Application

Terminal of the antenna products can only be used for 4G antenna.

## 2. The test environment, equipment

| Item | Description     | Test Condition  | Requirement                              |
|------|-----------------|---|--|
| 2.1  | Passive testing | The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices. | VSWR:<br><b>2400MHz-2500MHz &lt; 2.0</b> |
|      |                 | Test equipment  |  |
|      |                 |   |  |
| Item | Description     | Test Condition  | Requirement                              |

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Active test

Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.

Antenna gain:

**2400MHz-2500MHz :  $3\pm 1\text{dBi}$**

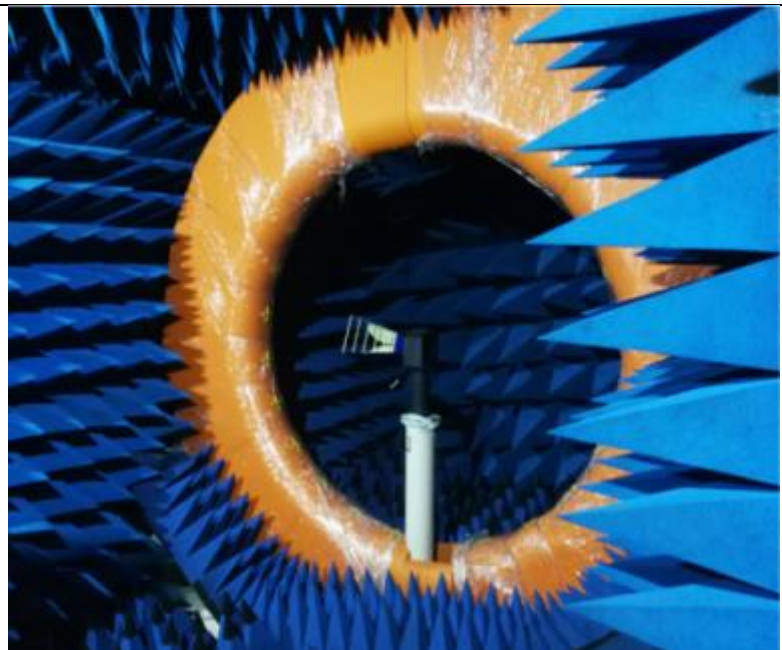
Antenna efficiency:

**2400MHz-2500MHz :  $> 45\%$**

Test equipment/测试设备

2.3

Microwave  
Anechoic  
(Satimo&ETS)

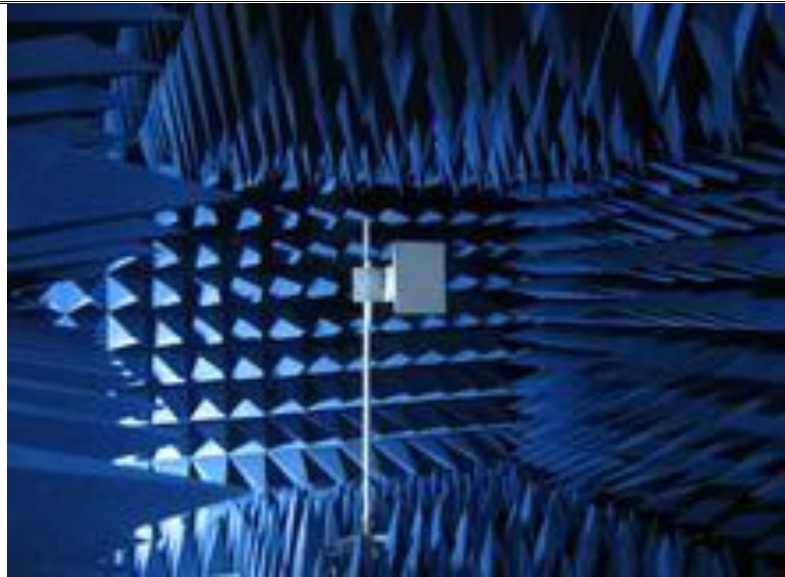


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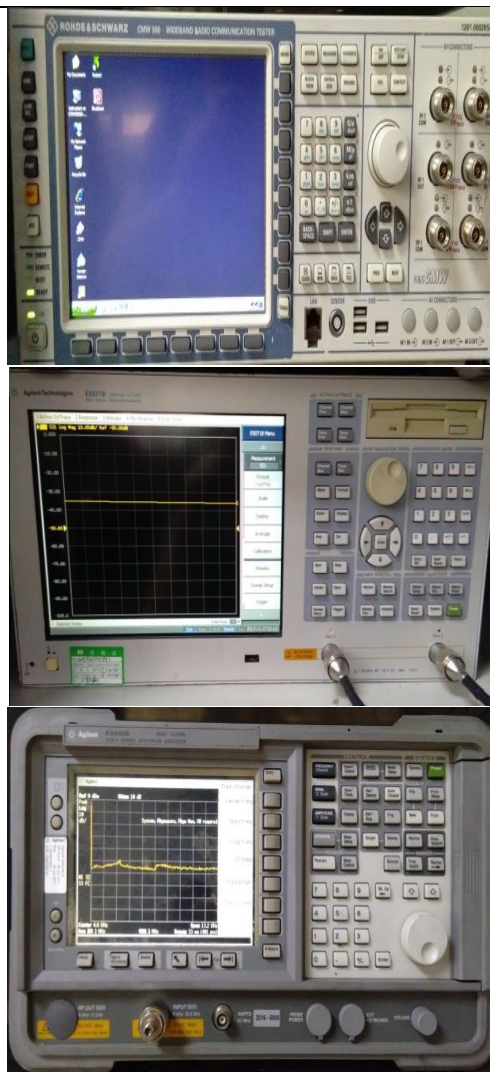
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CMW500  
Agilent5071B  
AgilentE4405B  
Agilent8960



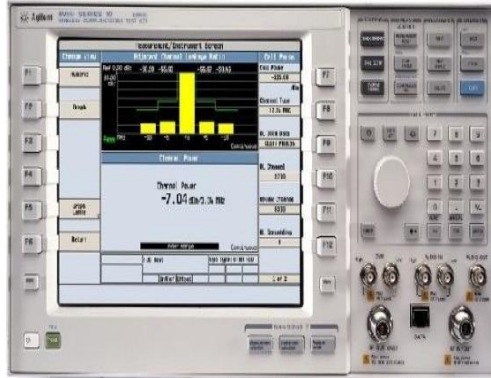
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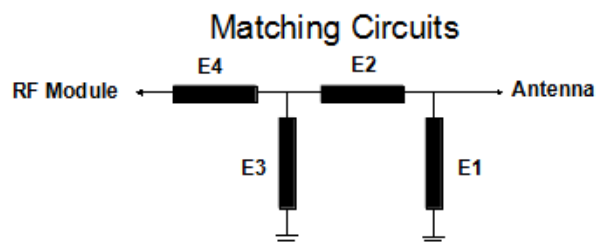


### 3. Technology Parameters

Frequency Range                      2400-2500MHz  
 Operating Humidity                    85% R.H.MAX  
 Temperature Rating                    -40°C ~ +85°C

#### 3.1 The matching test value

| Element  | Value |
|----------|-------|
| E1(0402) |       |
| E2(0402) |       |
| E3(0402) |       |
| E4(0402) |       |
|          |       |



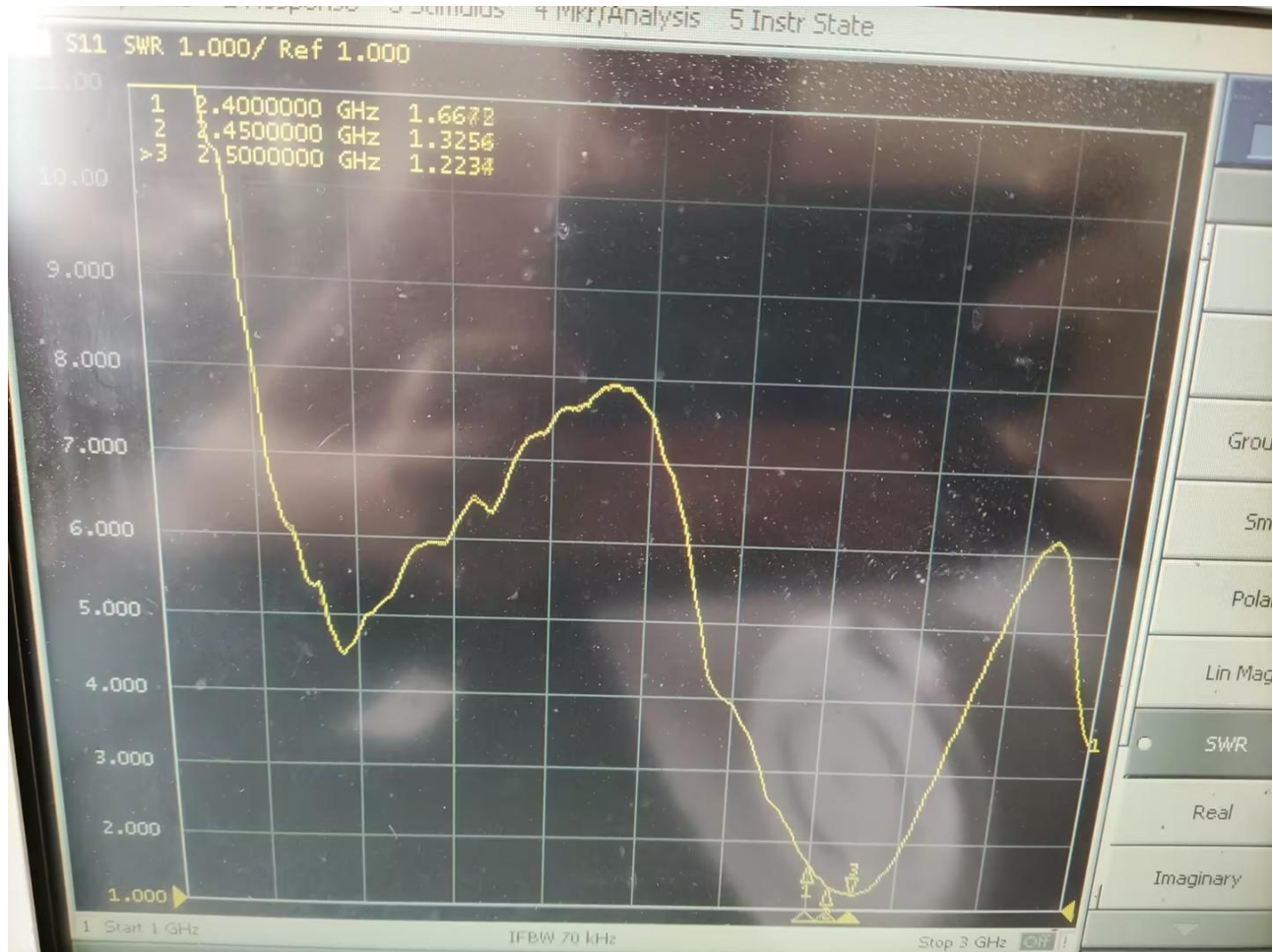
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## 3.2 VSWR



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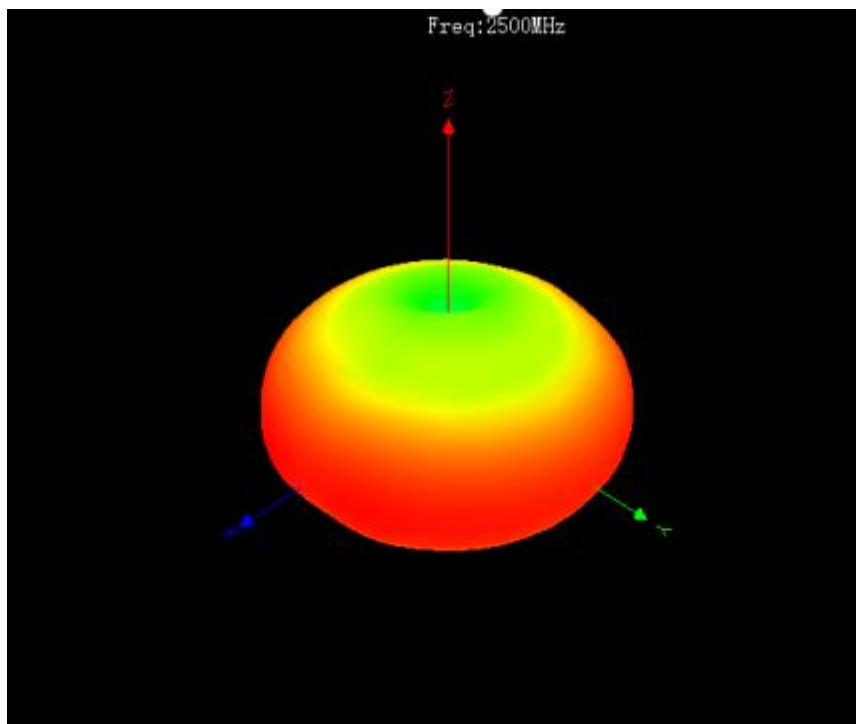
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## 3.3. Efficiency And Gain

| Frequency/Mhz | Efficiency / % | MaxGain/dBi |
|---------------|----------------|-------------|
| 2400          | 47.75          | 2.67        |
| 2410          | 47.42          | 2.92        |
| 2420          | 50.47          | 3.14        |
| 2430          | 51.05          | 2.91        |
| 2440          | 51.05          | 2.8         |
| 2450          | 63.7           | 2.75        |
| 2460          | 61.2           | 2.73        |
| 2470          | 63.95          | 2.85        |
| 2480          | 60.62          | 2.91        |
| 2490          | 62.48          | 2.95        |
| 2500          | 67.41          | 3.01        |

## 3.4 3D PHOTO



## 4. Product photo



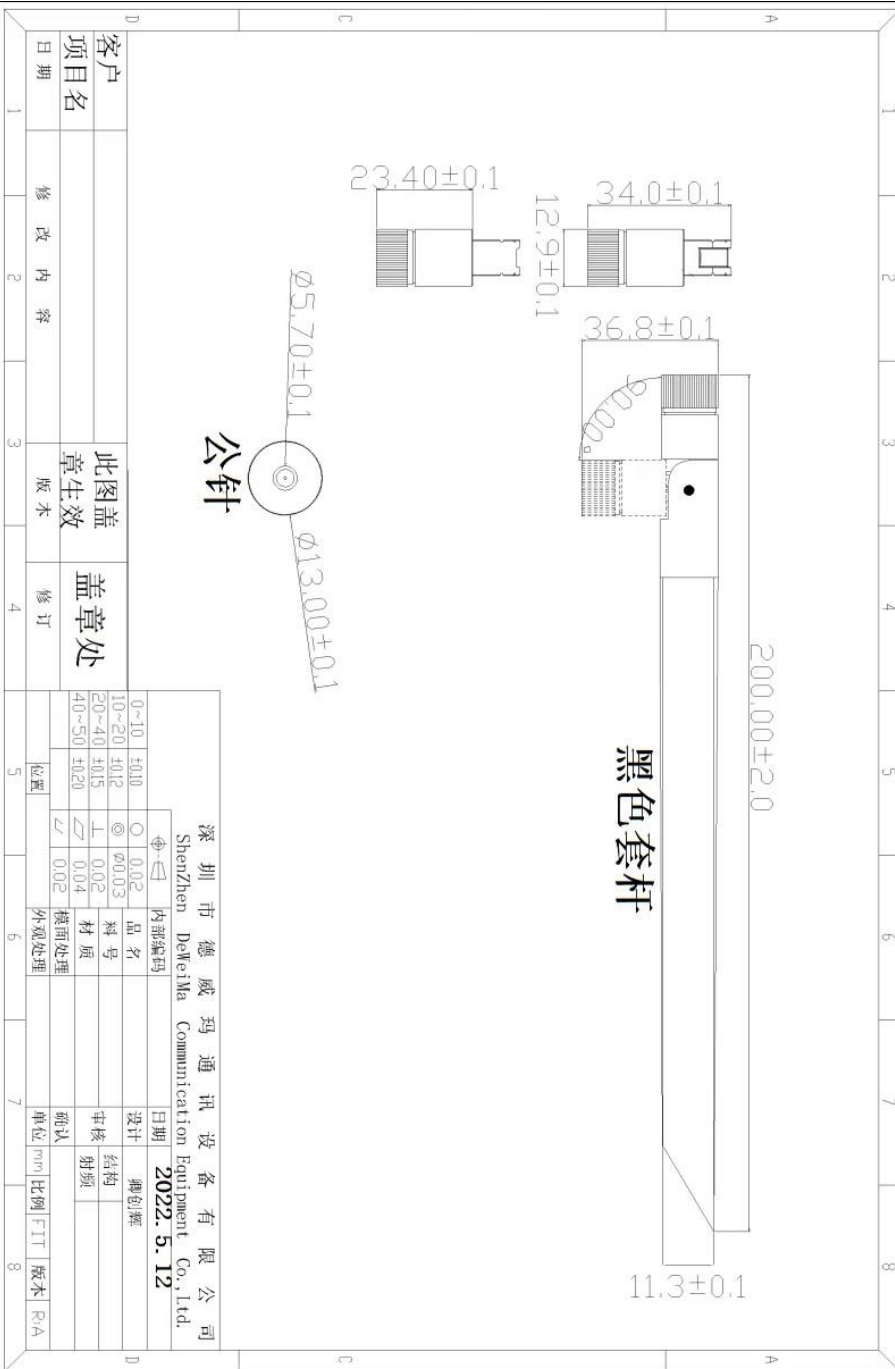
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|     |      |        |     |
|-----|------|--------|-----|
| 客户  | 修改内容 | 此图盖章生效 | 盖章处 |
| 项目名 |      | 版本     | 修订  |
| 日期  |      |        |     |

|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| 0-10  | f010 | 0.02 | 0.03 | 0.04 | 0.02 | 外观处理 |
| 10-20 | f012 | 0.02 | 0.03 | 0.04 | 0.02 | 外观处理 |
| 20-40 | f015 | 0.02 | 0.03 | 0.04 | 0.02 | 外观处理 |
| 40-50 | f020 | 0.02 | 0.03 | 0.04 | 0.02 | 外观处理 |

深圳市德威玛通讯设备有限公司  
Shenzhen DeWeiMa Communication Equipment Co., Ltd.

内部编号: 日期: 2022.5.12  
设计: 结构: 频率: 审核: 频率: 确认: 单位: (mm) 比例: FIT 版本: RA

## 5.Environmental Performance

| Item | Description | Test Condition | Requirement |
|------|-------------|----------------|-------------|
|------|-------------|----------------|-------------|

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|      |                               |   |   |
|------|-------------------------------|---|---|
| 5.1  | High and low temperature test | Temp.: -40 °C<br>Time: 48 hours<br><br>Temp.: 85°C<br>Time: 48 hours      | 1. No visible damage.<br><br>2. The electric performances reach the standard.   |
| Item | Description                   | Test Condition  | Requirement   |
| 5.2  | Salt Spray                    | 5±0.1% Nad salt fog<br>PH Value: 6.5-7.2<br>Temp: 35±1°C<br>Time:24 hours | 1. No color change.<br><br>2. the appearance of the antenna does not flake off. |

### 6.Usage Precaution

|     |                     |  |
|-----|---------------------|--|
| No  | Items               | Matter   |
| 6.1 | Precautions         | a)Please avoid the cleaning of this producta)  |
| No  | Items               | Matter   |
| 6.2 | Stockpile condition | Use this product within 6 months after receipt<br>Condition : Temp: 5~30°C Humidity:≤70% |

### 7. Packing metho

Bag shipment, 100pcs °