

**Chaozhou Maodun Network Technology Co., LTD**

# SPECIFICATION SHEET FOR APPROVAL

|                      |                   |
|----------------------|-------------------|
| <b>CUSTOMER NAME</b> | Jixian technology |
| <b>CUSTOMER P/N</b>  | UAC107            |
| <b>PART NAME</b>     | WIFI Antenna      |
| <b>Material code</b> | QA-40-FPC24G-01   |
| <b>APPROVAL REV.</b> | DWM-V1.0          |

| <b>CONTRACTOR</b>     |                       |                       | <b>DATE: 2025-02-28</b>    |
|-----------------------|-----------------------|-----------------------|----------------------------|
| <b>QA<br/>CHECKED</b> | <b>ME<br/>CHECKED</b> | <b>RF<br/>CHECKED</b> | <b>MANAGER<br/>CHECKED</b> |
| 高春彦                   | 陈裕松                   | 覃球铭                   | 余奇学                        |

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

Manufacturer: Chaozhou Maodun Network Technology Co., LTD

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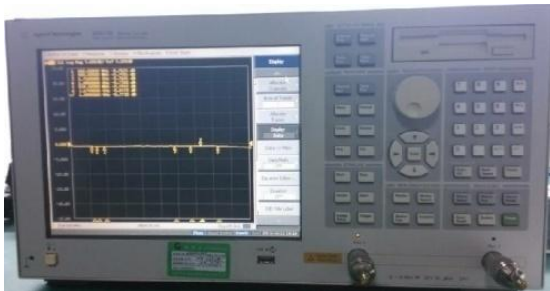
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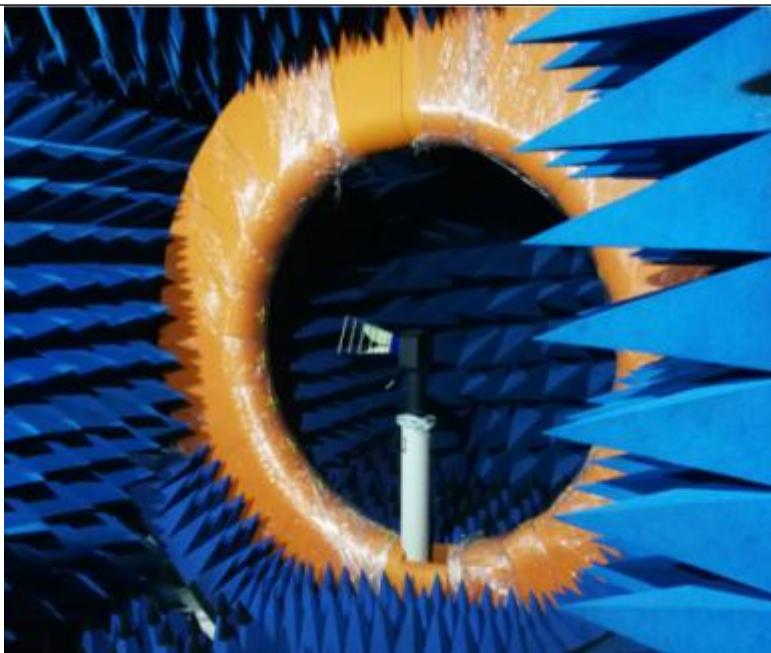
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|  |  |  |  | <b>Product Specification</b> |            |       |
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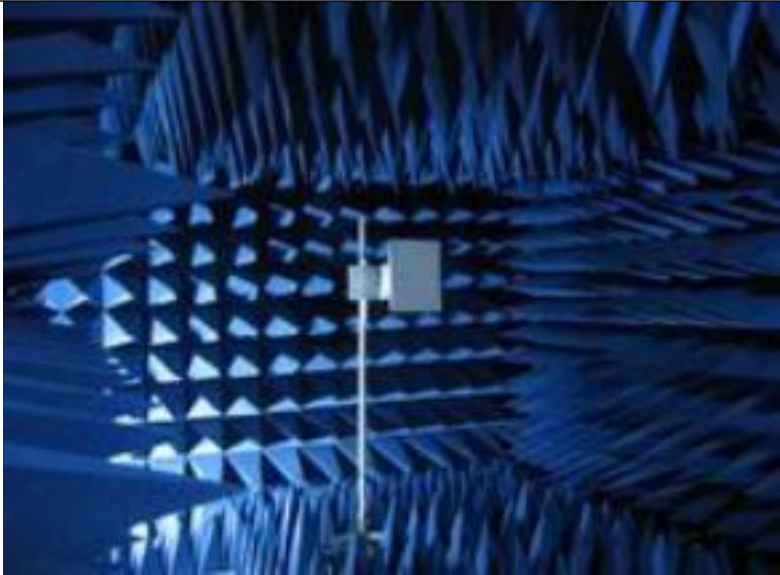
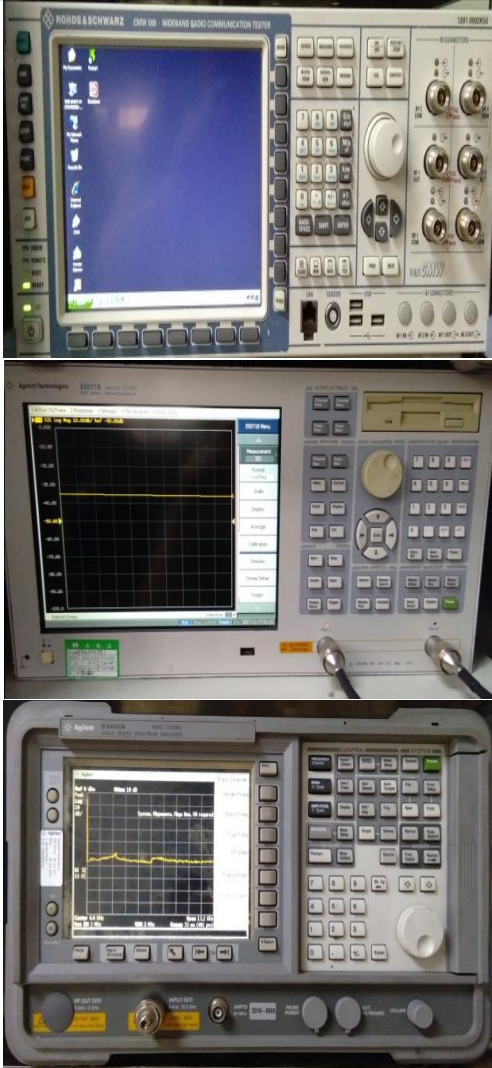
## 1. Product Application

Terminal of the antenna products can only be used for WIFI 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>2400-2500MHz<2 |
|      |                 | Test equipment                                                                                                                         |                         |
|      |                 |                                                    |                         |
| Item | Description     | Test Condition                                                                                                                         | Requirement             |

|     |                                 |                                                                                                                                                               | Product Specification                                                                     |            |       |
|-----|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------|-------|
|     |                                 |                                                                                                                                                               | P/N:                                                                                      | Rev.:<br>A | Page: |
| 2.2 | 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:<br><br>2400-2500MHz:3.08dBi<br><br>Antenna efficiency:<br>2400-2500MHz >30% |            |       |
| 2.3 | Microwave Anechoic (Satimo&ETS) | Test equipment/测试设备                                                                                                                                           |                                                                                           |            |       |
|     |                                 |                                                                           |                                                                                           |            |       |

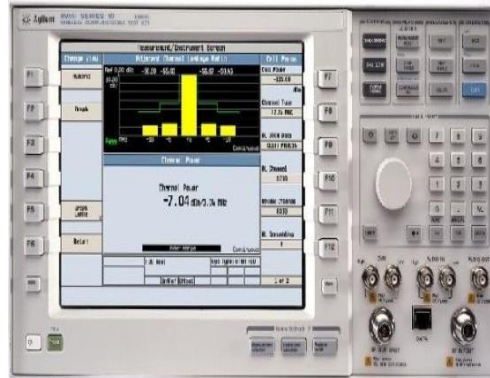
|     |                                                        |  |  | Product Specification                                                               |            |       |
|-----|--------------------------------------------------------|--|--|-------------------------------------------------------------------------------------|------------|-------|
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|     |                                                        |  |  |   |            |       |
| 2.4 | CMW500<br>Agilent5071B<br>AgilentE4405B<br>Agilent8960 |  |  |  |            |       |

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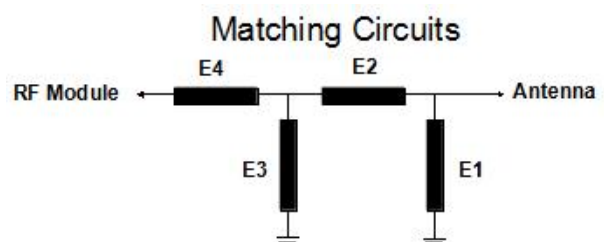
## 3. Technology Parameters

Frequency Range  
Operating Humidity  
Temperature Rating

2400-2500MHz  
85% R.H.MAX  
-40°C ~ +85°C

### 3.1 The matching test value

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



## Product Specification

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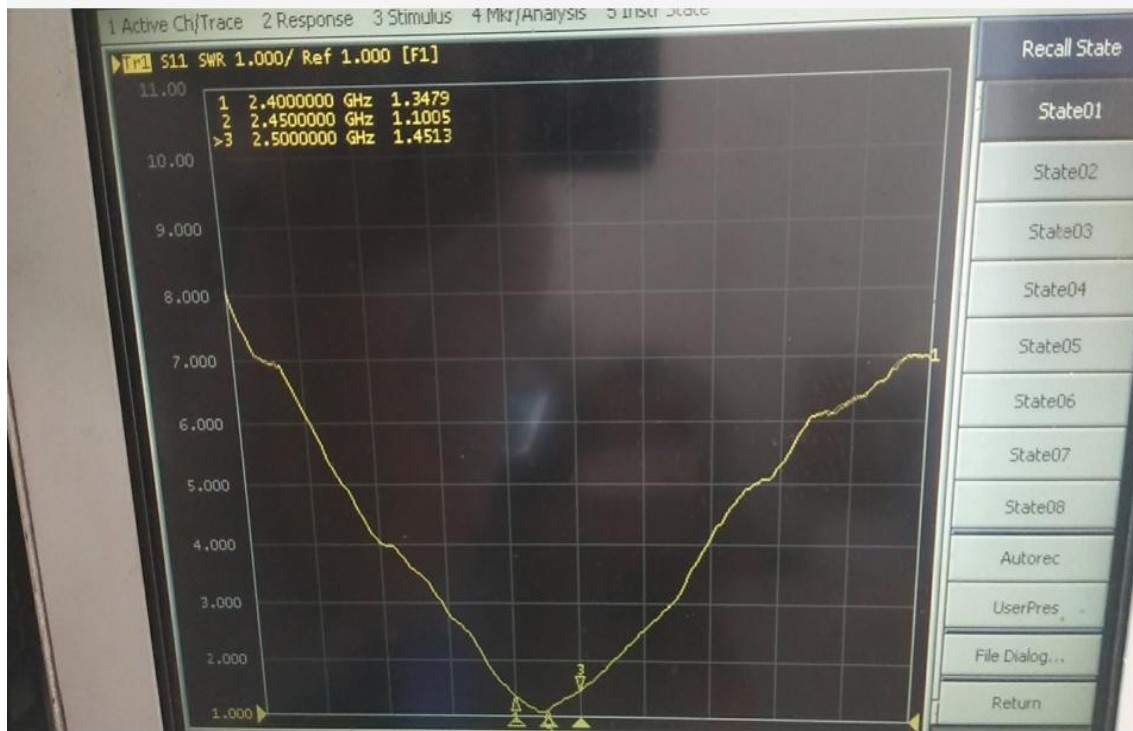
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### 3.2 VSWR

2400-2500MHz

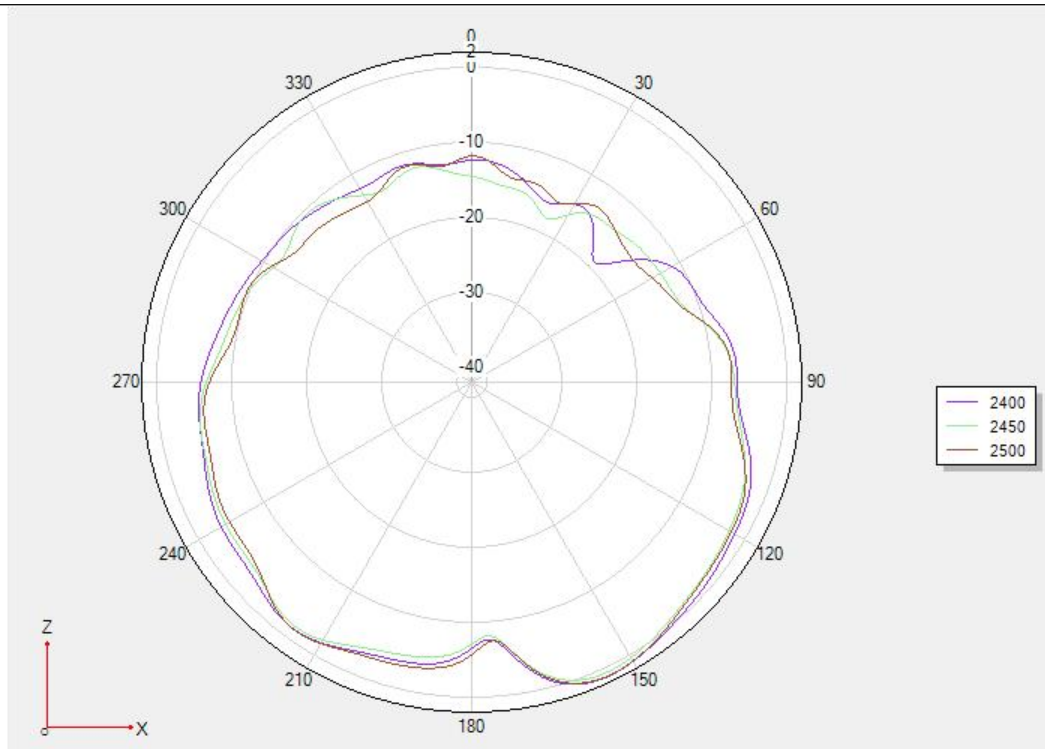


### 3.3. Efficiency And Gain/效率和增益

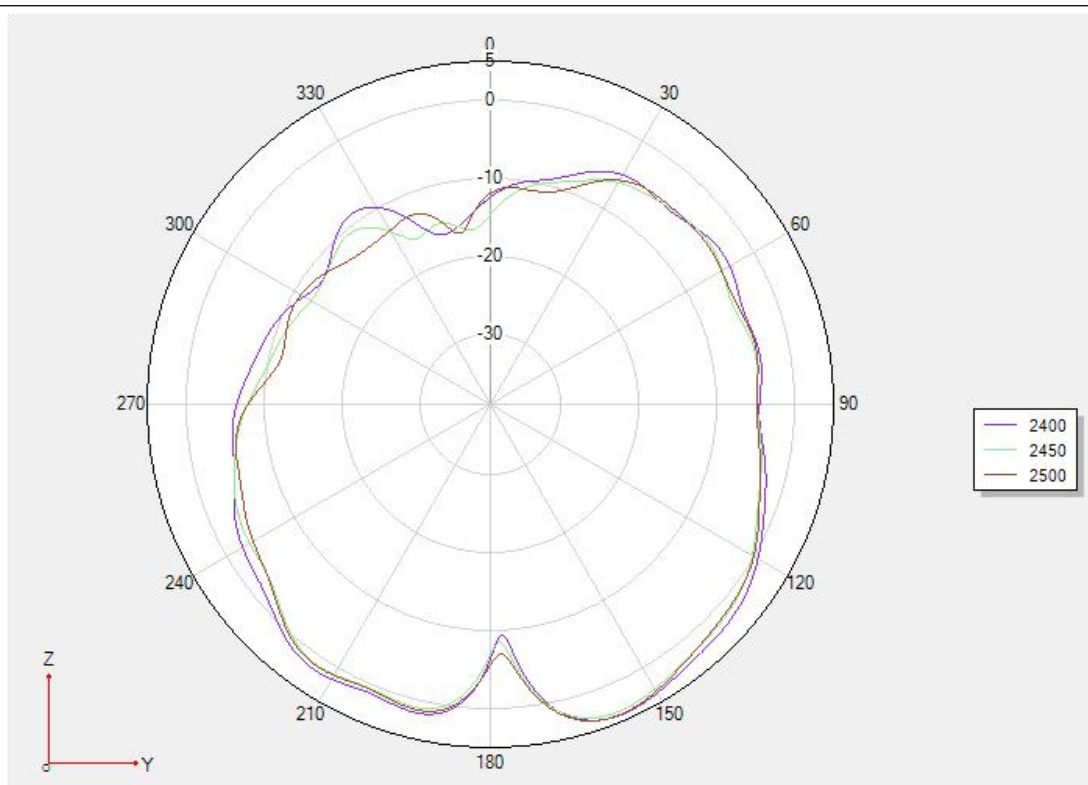
| Frequency<br>频率(MHz) | Gain<br>增益(dBi) | Efficiency<br>效率(dB) | Efficiency<br>效率(%) |
|----------------------|-----------------|----------------------|---------------------|
| 2400.00              | 2.66            | -2.87                | 51.66               |
| 2410.00              | 2.77            | -2.80                | 52.52               |
| 2420.00              | 2.90            | -2.71                | 53.63               |
| 2430.00              | 2.69            | -2.89                | 51.36               |
| 2440.00              | 2.92            | -2.65                | 54.38               |
| 2450.00              | 2.72            | -2.72                | 53.49               |
| 2460.00              | 2.80            | -2.75                | 53.13               |
| 2470.00              | 3.08            | -2.59                | 55.10               |
| 2480.00              | 2.77            | -2.77                | 52.81               |
| 2490.00              | 2.76            | -2.97                | 50.48               |
| 2500.00              | 2.65            | -3.17                | 48.15               |



PHi 0° 方向图

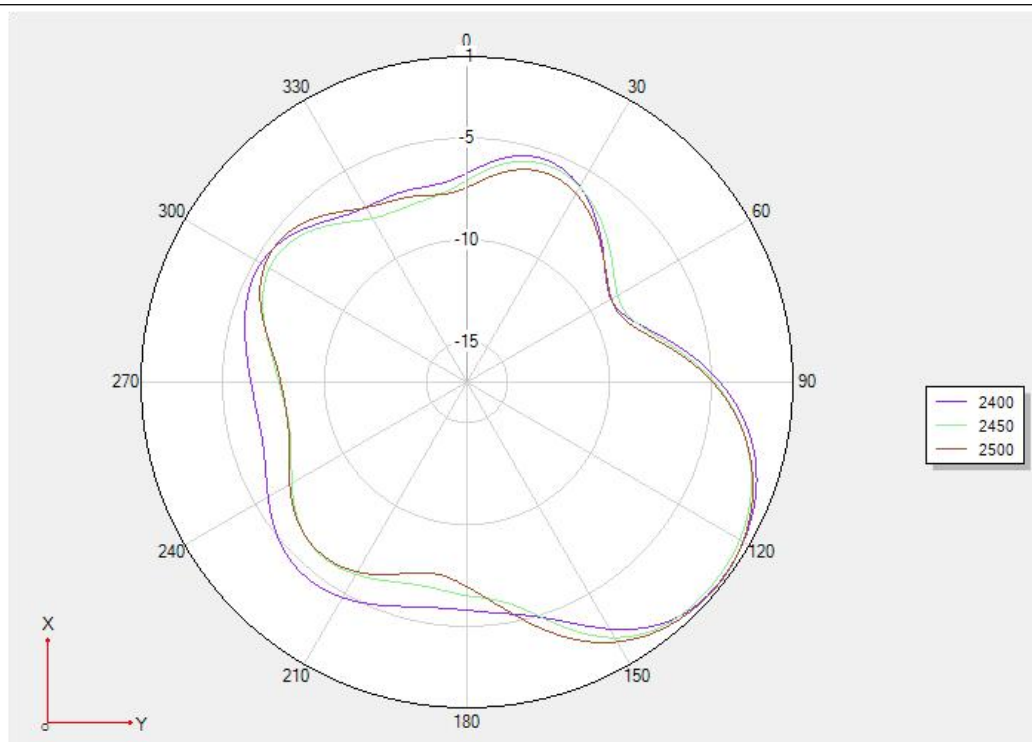


PHi 90° 方向图

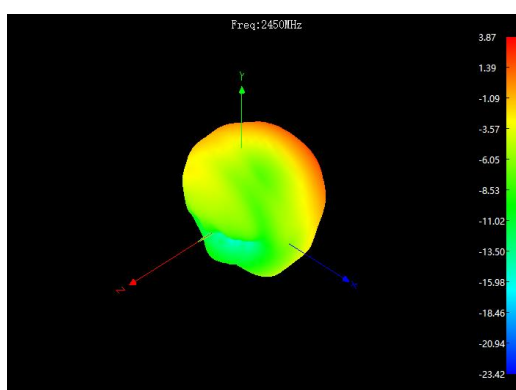
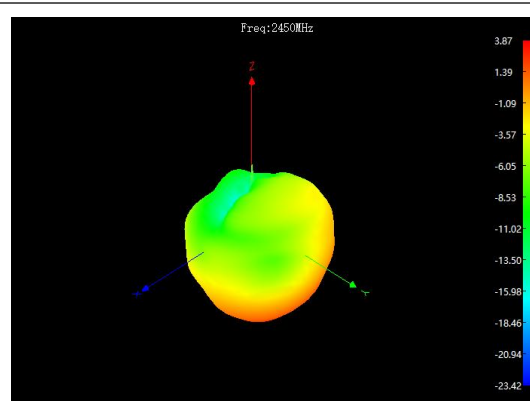
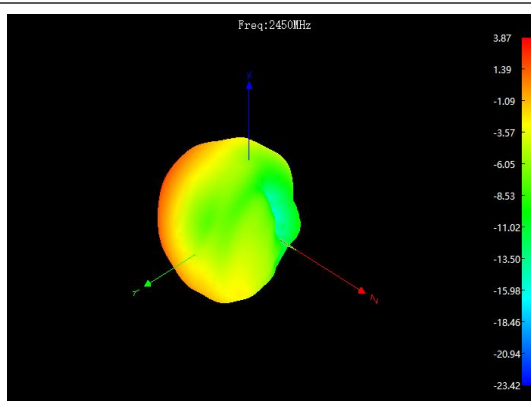




Theta  
90° 方向  
图



3D 方向图  
(3D  
Pattern)



# Product Specification

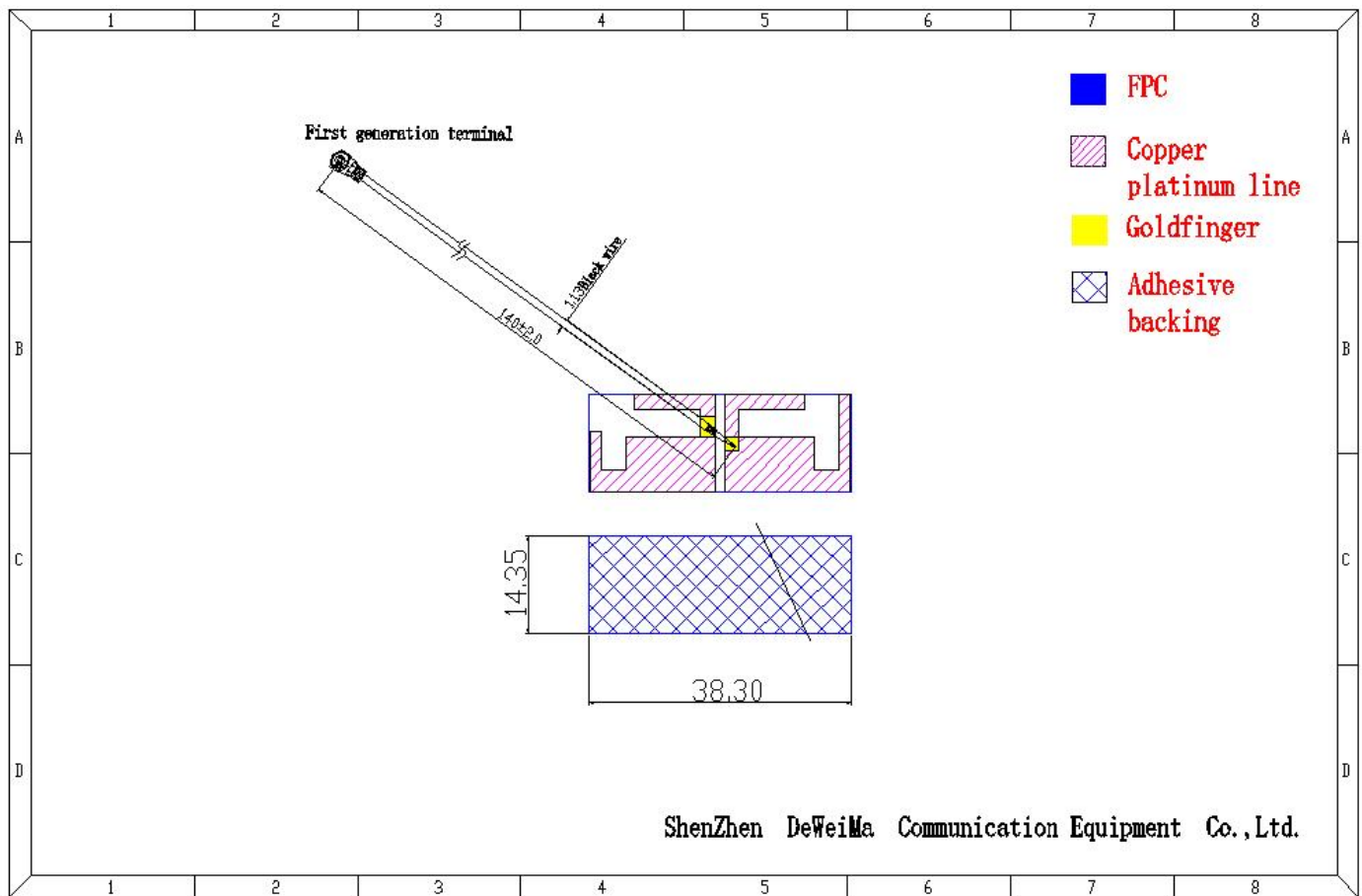
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## 4. Product photo



## 5.Environmental Performance

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

|  |  |                              |            |
|--|--|------------------------------|------------|
|  |  | <b>Product Specification</b> |            |
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## 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℃ Humidity:≤70% |

## 7. Packing metho

**Bag shipment, 100pcs。**