

# SPECIFICATION

Shenzhen Jiashibo Electronics Co., Ltd.

## 2.4G/5G PCB Antenna Product specification

|                     |  |           |                                    |
|---------------------|--|-----------|------------------------------------|
| Customers           |  | Frequency | 2400MHz—2500MHz<br>5150MHZ—5800MHZ |
| Name of<br>wire rod |  | Version   | A1                                 |

Customer confirmation:

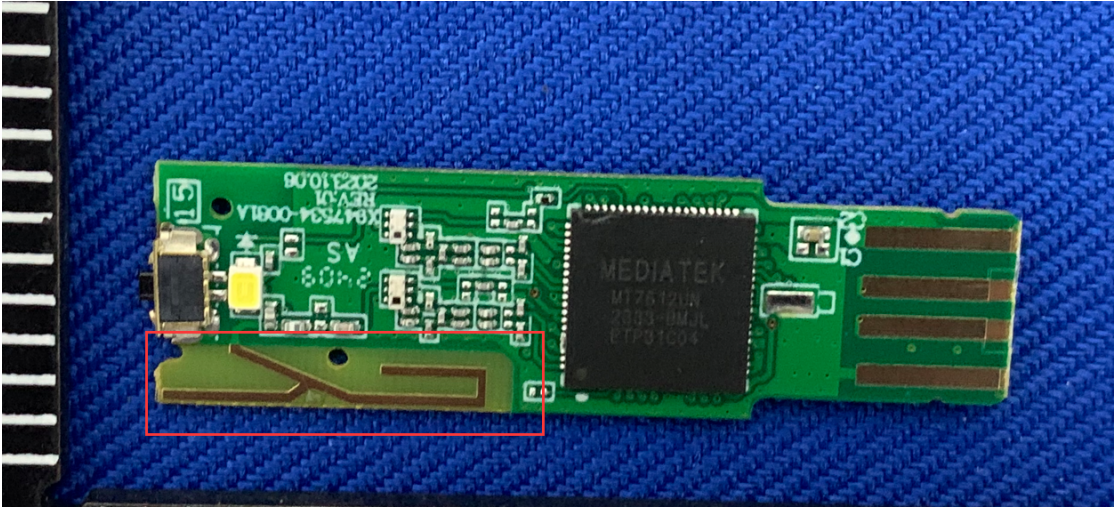
Whether the Assembly meets your requirements: ☐OK ☐NG

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# catalogue

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一、Product pictures



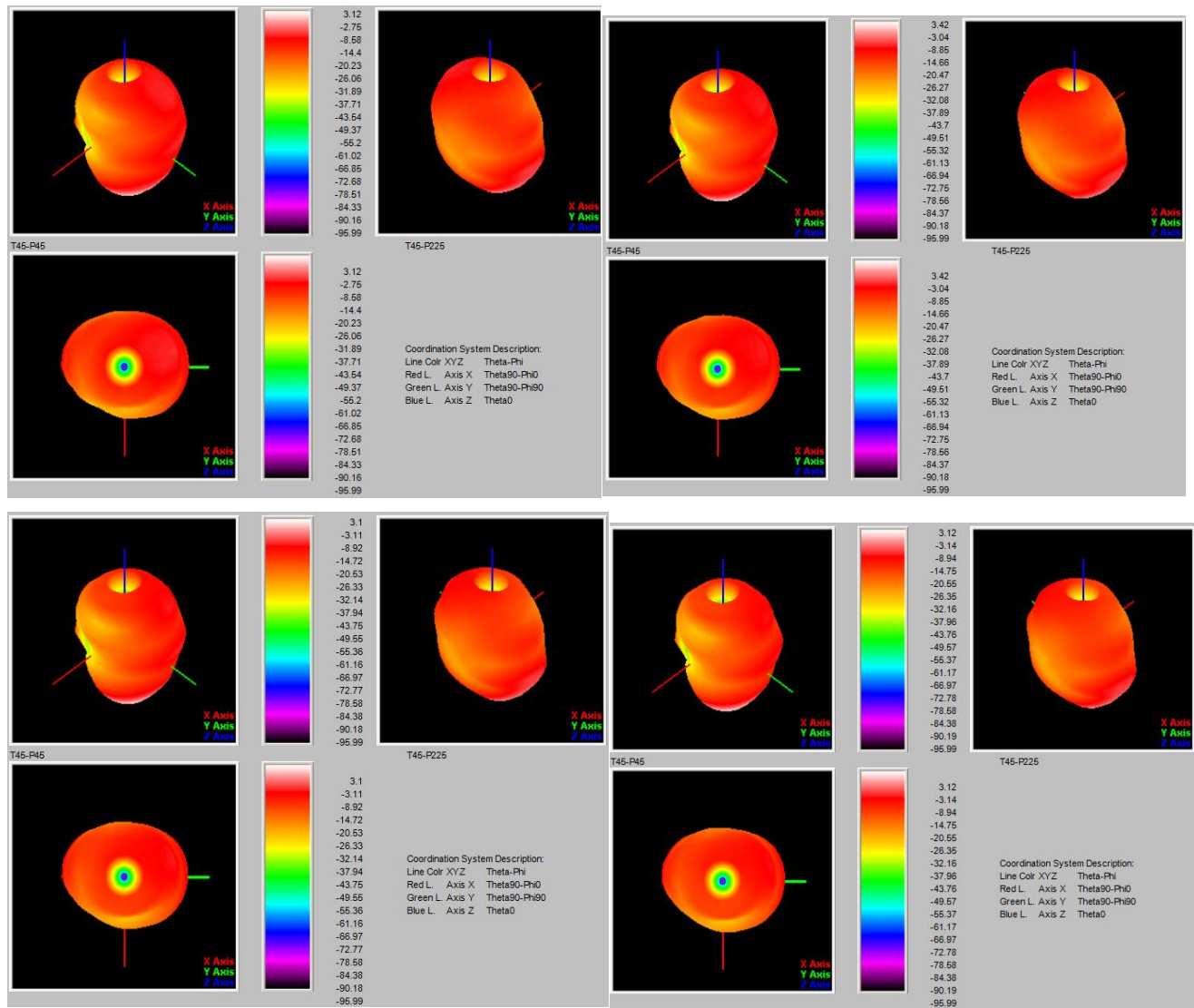
二、Product parameters

| Product test parameters     |                              |                     |               |
|-----------------------------|------------------------------|---------------------|---------------|
| (Name)                      | 2.4 g/5G antenna             | (Model Type)        |               |
| (Electrical Specifications) |                              |                     |               |
| (Frenquency Range)          | 2400-2500MHZ<br>5150-5800MHZ | (Polarization)      | perpendicular |
| (Impedance)                 | 50 Ω                         | Radiation           | QXCOMM        |
| (VSWR)                      | ≦2.0                         | (Power)             | 50W           |
| (Gain)                      | 3.42dBi&2.96dBi              | (Bandwidth          | 100M          |
| (Mechanical Specifications) |                              |                     |               |
| (Copper tube dimensions )   | 36*12±2mm                    | (Chassis Color)     | black         |
| (Connector)                 | IPEX                         | (Cable Length)      | 150±2mm       |
| (Wire)                      | 1.13 Gray                    |                     |               |
| (Working Temperature)       | -40℃--+85℃                   | (Limit Temperature) | -40℃--+85℃    |

三、Antenna gain and efficiency

| 天线无源数据  |       |          | 天线无源数据  |       |          |
|---------|-------|----------|---------|-------|----------|
| 频点(MHz) | 效率(%) | 增益(Gain) | 频点(MHz) | 效率(%) | 增益(Gain) |
| 2400    | 47.5% | 3.12     | 5200    | 47.3% | 2.96     |
| 2410    | 48.1% | 3.25     | 5300    | 46.2% | 2.92     |
| 2420    | 48.9% | 3.28     | 5400    | 46.5% | 2.87     |
| 2430    | 49.3% | 3.32     | 5500    | 49.4% | 2.95     |
| 2440    | 49.8% | 3.35     | 5600    | 48.8% | 3.25     |
| 2450    | 51.4% | 3.42     | 5700    | 47.5% | 3.18     |
| 2460    | 50.9% | 3.36     | 5800    | 48.3% | 3.12     |
| 2470    | 49.7% | 3.25     |         |       |          |
| 2480    | 49.5% | 3.14     |         |       |          |
| 2490    | 48.6% | 3.05     |         |       |          |
| 2500    | 49.2% | 3.10     |         |       |          |

## 四、Apple chart



## 五、 Environmental performance test

| project                            | Project test conditions                                                                                                                                                                                                                                                                                                                      | Specifications                                                                               |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Storage environment                | <p>The test temperature, humidity and air pressure are as follows when there is no specific condition:</p> <ol style="list-style-type: none"><li>1. The temperature is <math>-30^{\circ}\text{C}\sim+80^{\circ}\text{C}</math></li><li>2. Relative humidity: 45% - 85%</li><li>3. The air pressure is 86kpa-106kpa</li></ol>                 | Normal electrical and mechanical performance                                                 |
| High and low temperature test      | 5 cycles between $70^{\circ}\text{C}$ and $40^{\circ}\text{C}$ , then under normal conditions 1-2H, check the appearance quality.                                                                                                                                                                                                            | <p>The size shall meet the requirements and</p> <p>Mechanical and electrical performance</p> |
| Constant damp heat resistance test | <p>Relative humidity: <math>95 \pm 3\%</math>, test temperature: <math>40^{\circ}\text{C}</math>.<br/>After lasting for 2h,</p> <p>The electrical performance shall be measured within 5 minutes after the test object is taken out, and the test object shall be within the normal range</p> <p>Part 1-2H, check the appearance quality</p> | <p>The size shall meet the requirements and</p> <p>Mechanical and electrical performance</p> |
| vibration test                     | <p>Vibration frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude:</p> <p>50.0M/s, frequency sweep cycles: 30 times</p>                                                                                                                                                                                          | Normal electrical and mechanical performance                                                 |
| Drop test                          | Free fall for 3 times in the direction of mutually perpendicular axes at a height of 1M                                                                                                                                                                                                                                                      | Normal electrical and mechanical performance                                                 |