

# 深圳市云顶通讯电子有限公司

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E-mail:wht0809@163.com

## 承認書 APPROVAL SHEET

客 户 镭动  
:

品 名 规 格 YD-805T- WIFI-1.13 线-L122MM-IPEX 1  
DESCRIPTION:

料 号  
PART NO.:

客 户 料 号  
CUS PART NO.:

日 期 2025-2-13  
D A T E:

### 云顶呈样签章

| 工 程<br>ENGINEERING DEPARTMENT | 品 保<br>Q C DEPARTMENT | 业 务<br>SALES DEPARTMENT |
|-------------------------------|-----------------------|-------------------------|
|                               |                       |                         |

### 客户承认签章

| 工 程<br>ENGINEERING DEPARTMENT | 品 保<br>Q C DEPARTMENT | 采 购<br>PURCHASING DEPARTMENT |
|-------------------------------|-----------------------|------------------------------|
|                               |                       |                              |

联系电话: 0755 23073599

※ 承认书一式三份, 惠蒙贵司承认签章

※ Approval in duplicate, please signed by your company.

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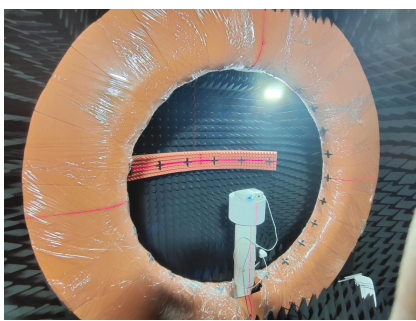
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## 1. 测试项目与设备

|                            | 测试项目                                     | 设备                                                                                                                         |
|----------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1. S11 参数<br>(S-parameter) | 1. 回波损耗 (Return Loss)<br>2. 电压驻波比 (VSWR) | 网络分析仪: Agilent E5071B<br>HP 8753D                                                                                          |
| 2. 有源测试<br>(Active)        | 1. 发射功率 (TRP)<br>2. 接收灵敏度 (TIS)          | 1. 暗室: ETS 7x4x3 m (3D) Chamber<br>ETS 5x3x3 m (3D) Chamber<br>2. 综合测试仪: Agilent 8960 E5515B x2<br>StarPoint SP6011 Cmw500 |
| 3. 无源测试<br>(Passive)       | 1. 天线增益 (Gain) 2. 天线效率 (Efficiency)      | 1. 暗室: ETS 7x4x3 m (3D) Chamber<br>ETS 5x3x3 m (3D) Chamber<br>2. 网络分析仪: Agilent E5071B<br>HP 8753D                        |



Antenna model: YD-805T-WIFI-1.13-L120MM-IPEX1  
Antenna type: FPC  
Manufacturer: ShenZhen Yunding Communication Electronics CO.,Ltd  
Address: 3015, Floor 3, Jinchi Center, Hangkong Road, Xixiang Street, Baoan District, Shenzhen City, Guangdong Province

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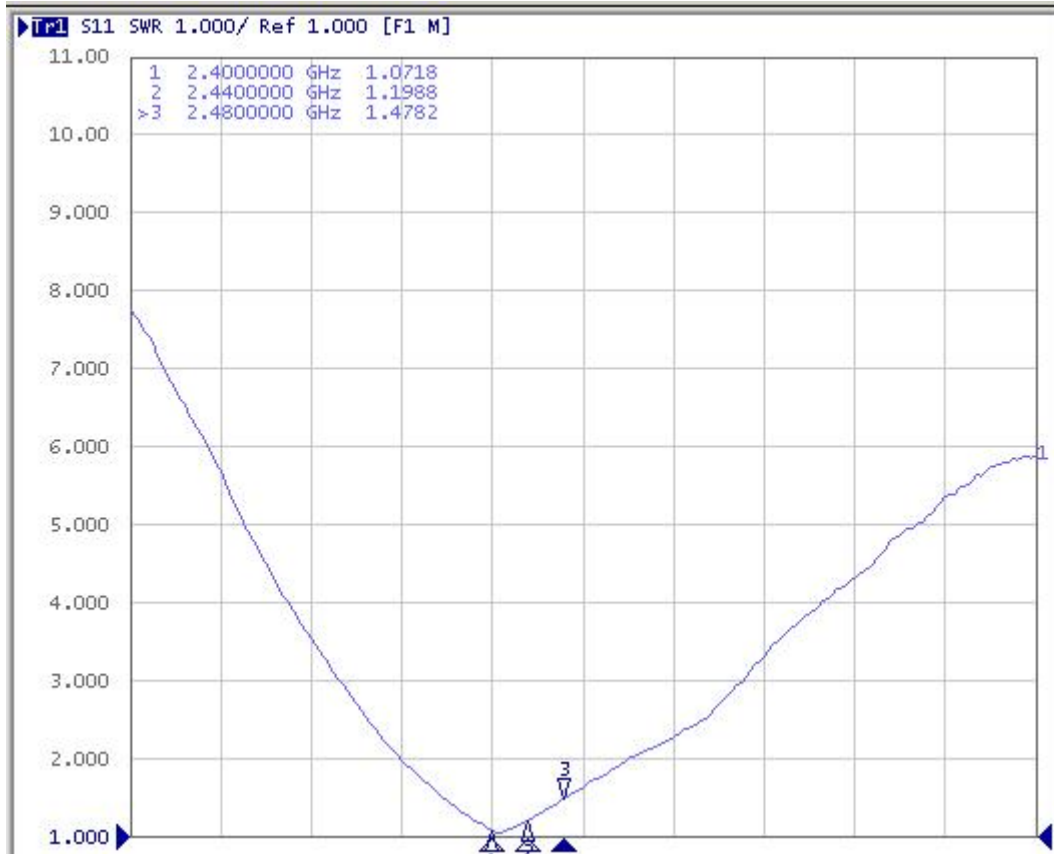
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## 2. 天线性能

### SWR



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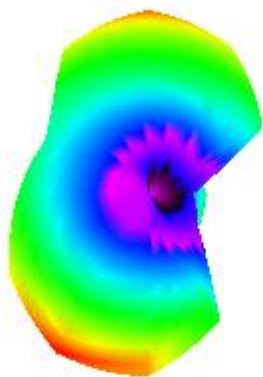
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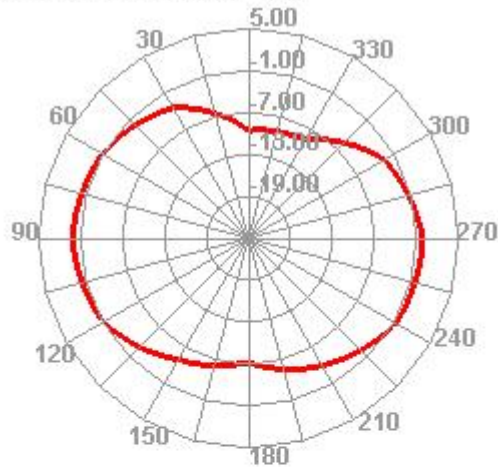
## 3. 天线效率与增益

| Passive Test For WIFI2.4 |             |               |
|--------------------------|-------------|---------------|
| Freq<br>(MHz)            | Effi<br>(%) | Gain<br>(dBi) |
| 2400                     | 36.89       | 0.65          |
| 2410                     | 36.27       | 0.67          |
| 2420                     | 32.56       | 0.09          |
| 2430                     | 33.23       | 0.17          |
| 2440                     | 35.57       | 0.35          |
| 2450                     | 39.06       | 0.76          |
| 2460                     | 40.45       | 1.02          |
| 2470                     | 44.75       | 1.6           |
| 2480                     | 44.39       | 1.63          |
| 2490                     | 46.86       | 1.85          |
| 2500                     | 51.96       | 2.26          |

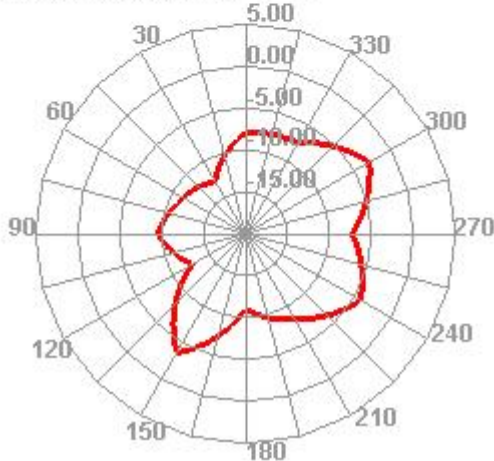
2400.000MHz



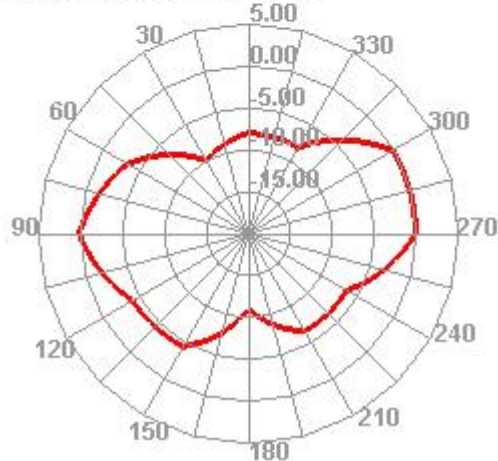
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



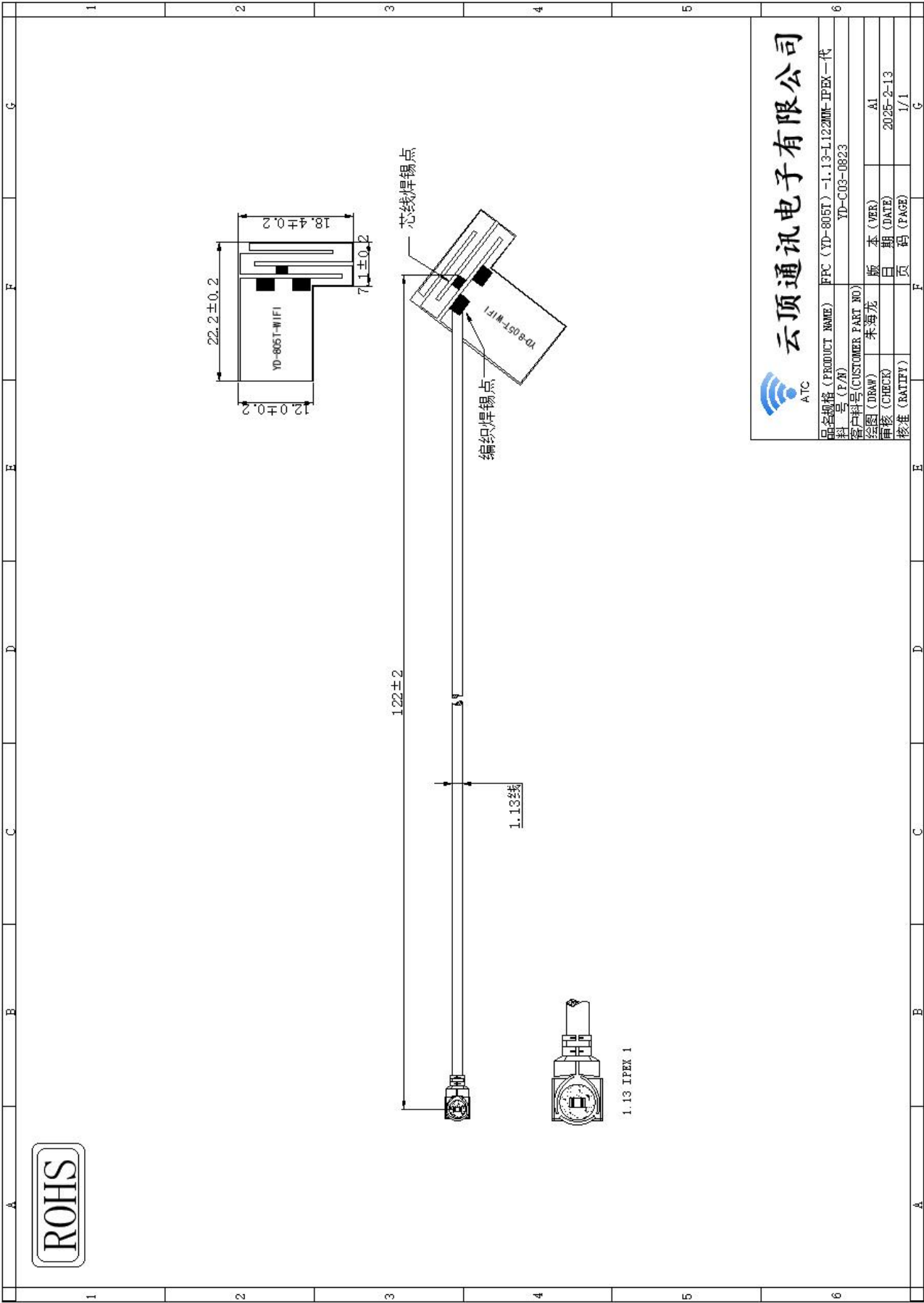
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## 4. 天线结构图:



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## 电器技术参数

| 电 性 能 指 标 |              | Electrical Specifications |              |
|-----------|--------------|---------------------------|--------------|
| 频率范围      | 2400~2500MHz | Frequency Range           | 2400~2500MHz |
| 电压驻波比     | ≤2           | VSWR                      | ≤2           |
| 输入阻抗      | 50 Ω         | Input Impedance           | 50 Ω         |
| 增益        | 2 DBI        | Gain                      | 2 DBI        |
| 机 械 指 标   |              | Mechanical Specifications |              |
| 天线颜色      | 黄色           | Antenna Color             | Yellow       |
| 接口形式      | IPEX 一代      | Input connector           | IPEX 1       |
| 天线线长      | 122mm        | Cable length              | 122mm        |
| 工作温度      | -40℃~+85℃    | Working Temperature       | -40℃~+85℃    |
| 工作湿度      | 20~80%       | Working Humidity          | 20~80%       |

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## 环境性能测试（Environment performance test）：

| 项目      | 测试条件                                                                               | 测试结果                |
|---------|------------------------------------------------------------------------------------|---------------------|
| 储存环境    | 在没有指定的情况下测试温度、湿度、气压如下：<br>1. 温度为-30℃~+80℃<br>2. 相对湿度为45%-85%<br>3. 气压为86kpa-106kpa | 电气机械性能正常            |
| 高低温试验   | 在70℃与-40℃之间进行5次循环，然后在正常条件下1-2H，检查外观质量。                                             | 尺寸应满足规定并应满足于机械、电气性能 |
| 耐恒定湿热试验 | 相对湿度95±3%，试验温度：40℃.持续2H作用后，试品取出后5min之内测定电气性能，试品在正常条件下1-2H，检查外观质量                   | 尺寸应满足规定并应满足于机械、电气性能 |
| 振动试验    | 振频范围10-55HZ，位移幅值：0.35MM，加速度幅值：50.0M/S，扫频循环次数：30次                                   | 电气机械性能正常            |
| 跌落试验    | 1M高空按照互相垂直的轴方向自由跌落3次                                                               | 电气机械性能正常            |

| Project                                | Test condition                                                                                                                                                                            | Test results                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Storage environment                    | Test temperature, humidity, pressure without stated condition as follwings:1.Temperature: -30℃ ~ +80℃ ;2.Relative humidity: 45%-85%;3,Pressure: 86kpa-106kpa                              | Electrical and mechanical performance normal                             |
| High and low temperature test          | Having 5 times cycle between -40℃ to 70℃,Then in common condition 1-2 hours test exterior quality.                                                                                        | Measurement satisfied with electrical and mechanical performance normal. |
| Resistance constant hot and humid test | Relative humidity:95±3%,Test temperature: 40℃,last 2 hours ,put it after 5 min test the electrical function .Test products during common condition 1-2 hours ,Then test exterior quality. | Measurement satisfied with electrical and mechanical performance normal. |
| Vibration test                         | Vibrate Frequency:10-55HZ;<br>Distance :0.35mm;Acceleration :50.0m/s;Sweep frequency cycle:30 times                                                                                       | Electrical and mechanical performance normal                             |
| Fall test                              | From 1m height fall down 3 times freely (vertical direction)                                                                                                                              | Electrical and mechanical performance normal                             |