



深圳市雨盛通讯电子有限公司

Shenzhen Yu Sheng Communications Electronics co., LTD

TEL: +86 0755-28640107

FAX: +86 0755-28694967

# 承认书 APPROVAL

版本: A1

客 户  
CUSTOMER:

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品 名 规 格  
DESCRIPTION:

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料 号  
PART NO.: YS020-0037

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客 户 料 号  
CUS PART NO.:

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日 期  
D A T E: 2024-8-31

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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     | $\leq 2.0$   | VSWR                      | $\leq 2.0$   |
| 增益        | 2.69dBi      | GAIN                      | 2.69dBi      |
| 输入阻抗      | 50 $\Omega$  | Input Impedance           | 50 $\Omega$  |
| 机 械 指 标   |              | Mechanical Specifications |              |
| 天线颜色      | 白色           | Antenna Color             | WHITE        |
| 接口形式      | IPEX 端子      | Input connector           | IPEX1.13     |
| 天线长度      | 200mm        | Cable length              | 200mm        |
| 工作温度      | -40℃ ~ +85℃  | Working Temperature       | -40℃ ~ +85℃  |
| 工作湿度      | 20~80%       | Working Humidity          | 20~80%       |

Factory address: Floor 3-4, No. 102, Ao West Road, Ao Bei Yi Village, Henggang Town, Longgang District, Shenzhen



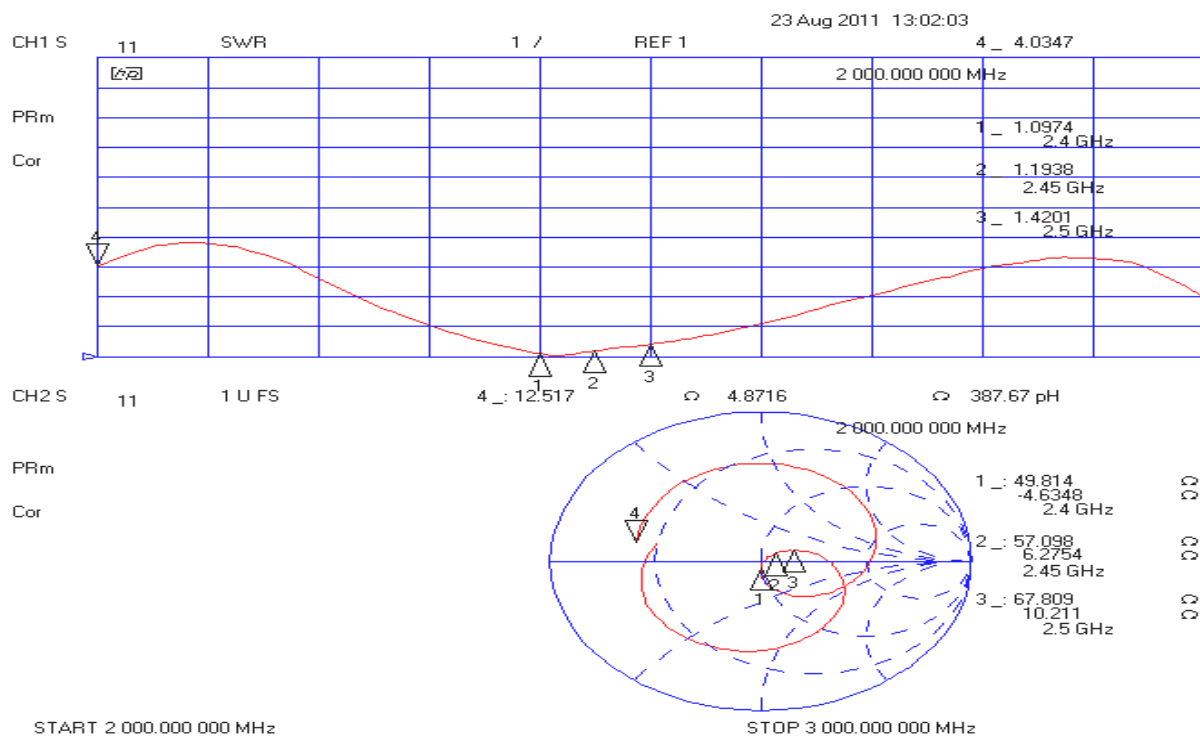
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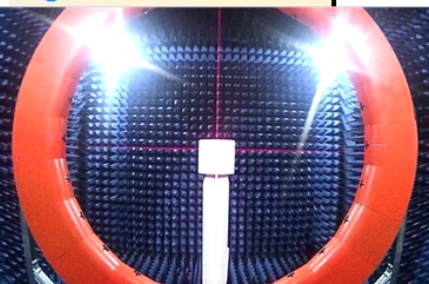
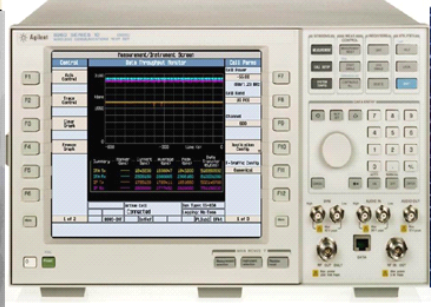
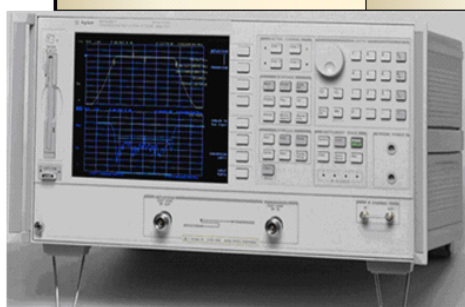
网络分析测试:



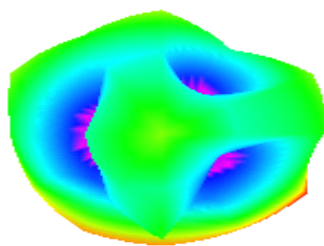
Factory address: Floor 3-4, No. 102, Ao West Road, Ao Bei Yi Village, Henggang Town, Longgang District, Shenzhen

## ● 测试项目与设备

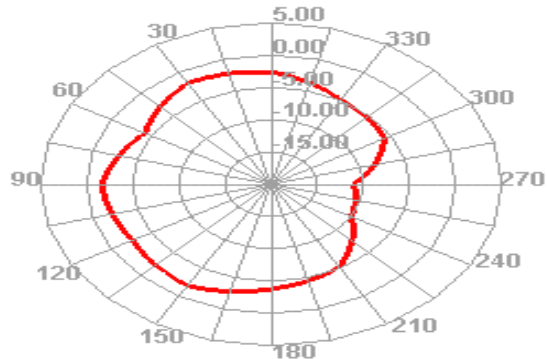
|            | 测试项目                | 设备                                                          |
|------------|---------------------|-------------------------------------------------------------|
| 1. S参数     | 1. 回波损耗<br>2. 驻波比   | 网络分析仪: Agilent E5071B                                       |
| 2. 耦合功率测试  | 1. 发射功率<br>2. 接收灵敏度 | GSM 测试仪: Agilent 8960 E5515C<br>LTE /WIFI/BT测试仪: R&S CMW500 |
| 3. 辐射模式与增益 | 1. 辐射模式<br>2. 天线增益  | 1. 暗室: 8x4x4 m (3D)<br>2. 网络分析仪: Agilent E5071B             |



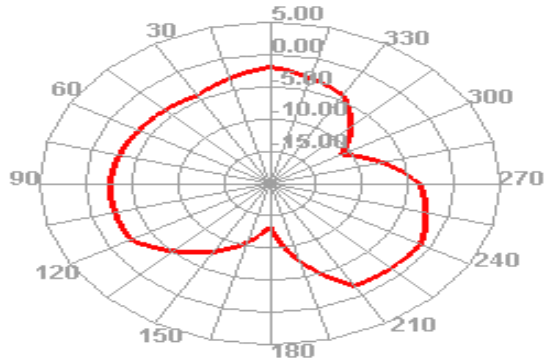
2400.000MHz



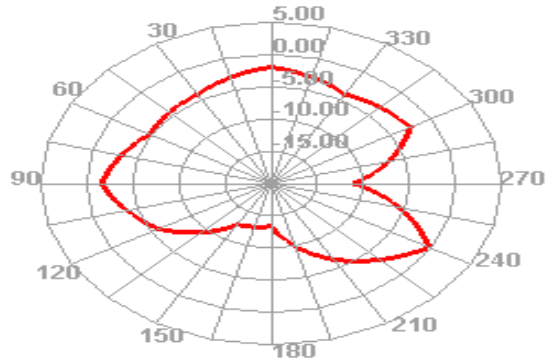
2400.000MHz H



2400.000MHz E1



2400.000MHz E2





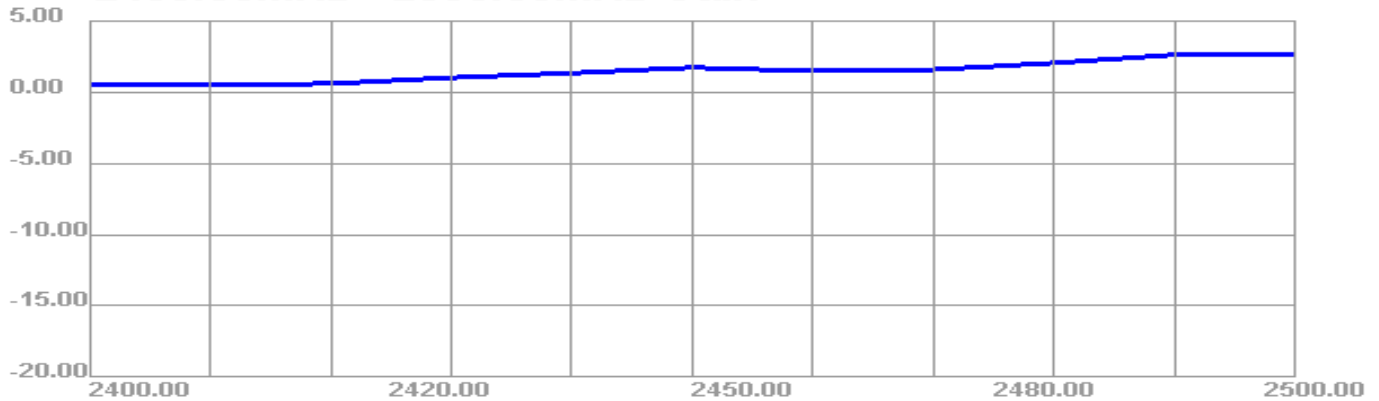
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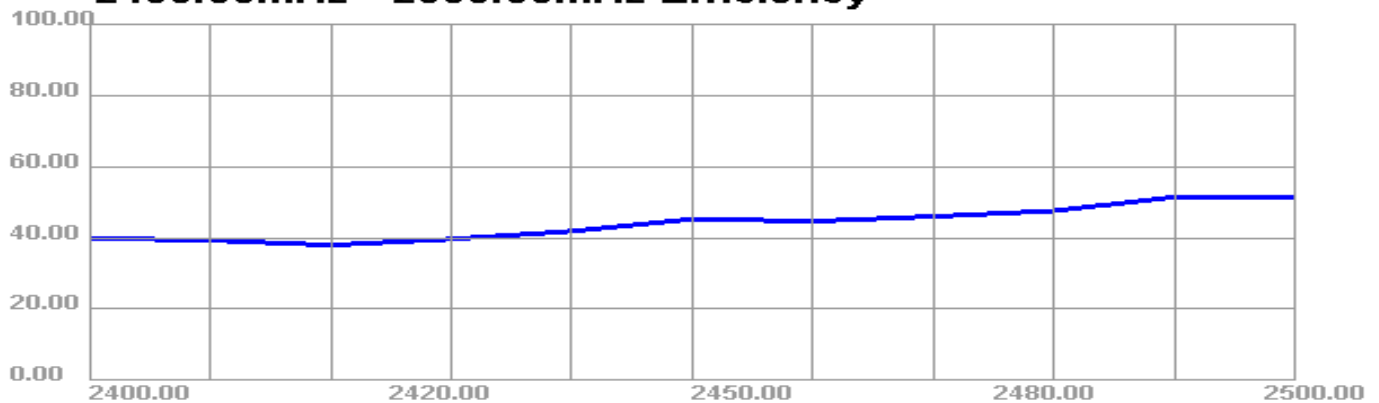
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## 2400.00MHz - 2500.00MHz Gain

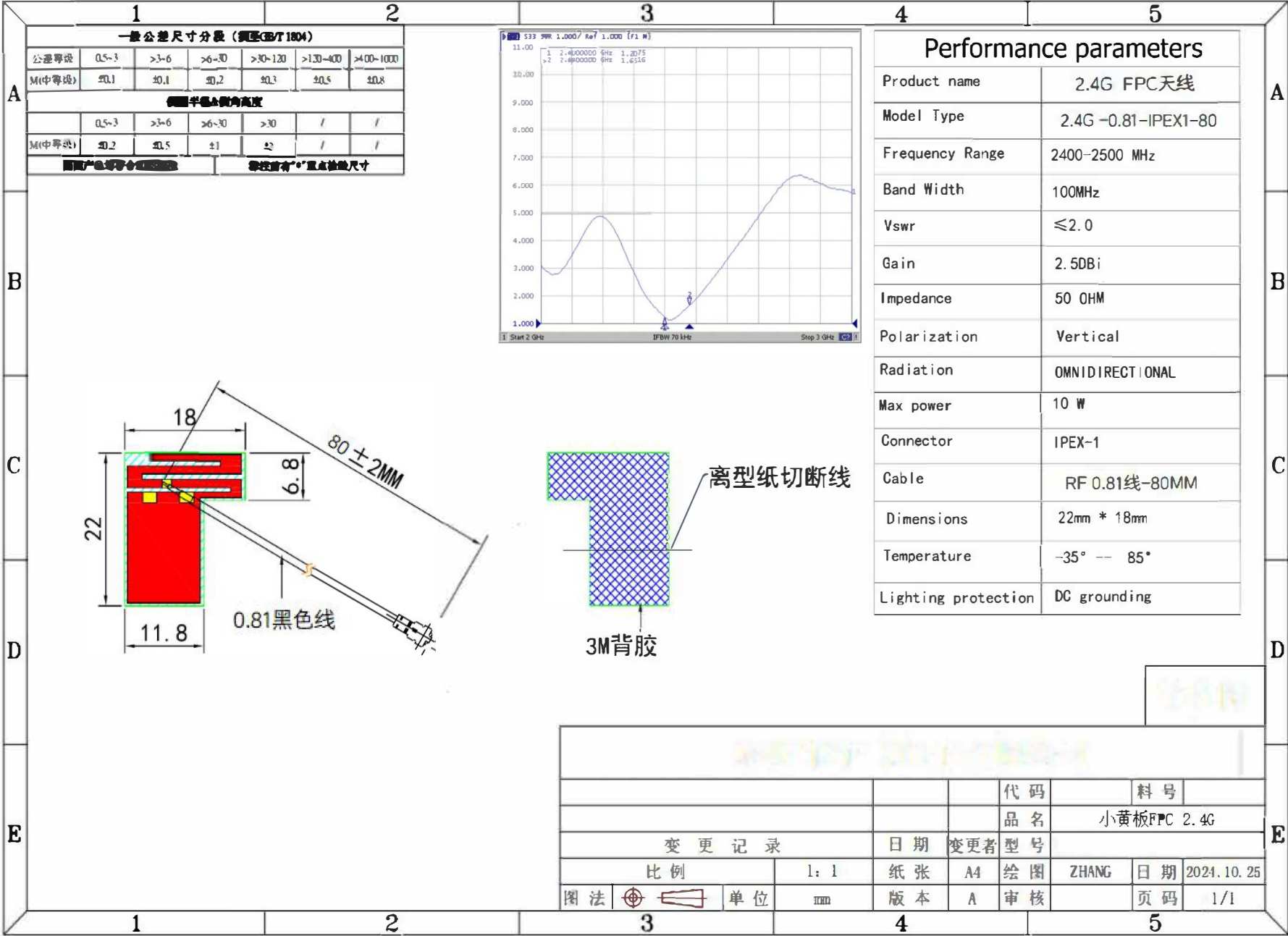


## 2400.00MHz - 2500.00MHz Efficiency



| Passive Test For WIFI |          |           |            |            |         |         |          |          |                   |                 |           |           |
|-----------------------|----------|-----------|------------|------------|---------|---------|----------|----------|-------------------|-----------------|-----------|-----------|
| Freq (MHz)            | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHS (%) | DHS (%) | Max (dB) | Min (dB) | Directivity (dBi) | Beamwidth (3dB) | AttH (dB) | AttV (dB) |
| 2400                  | 39.9     | -3.99     | 0.52       | -1.63      | 16.108  | 23.797  | 0.52     | -13.42   | 4.51              | 60              | 43.91     | 43.89     |
| 2410                  | 39.32    | -4.05     | 0.51       | -1.64      | 15.992  | 23.328  | 0.51     | -13.61   | 4.56              | 60              | 44.05     | 43.95     |
| 2420                  | 37.97    | -4.21     | 0.6        | -1.55      | 15.669  | 22.298  | 0.6      | -14.15   | 4.8               | 150             | 43.94     | 43.81     |
| 2430                  | 39.67    | -4.01     | 1.01       | -1.14      | 16.61   | 23.065  | 1.01     | -15.14   | 5.03              | 120             | 44.07     | 43.87     |
| 2440                  | 41.87    | -3.78     | 1.33       | -0.82      | 17.871  | 24.001  | 1.33     | -16.2    | 5.12              | 120             | 44.39     | 44.15     |
| 2450                  | 45.28    | -3.44     | 1.72       | -0.43      | 19.717  | 25.565  | 1.72     | -15.97   | 5.16              | 120             | 44.63     | 44.34     |
| 2460                  | 44.68    | -3.5      | 1.47       | -0.68      | 19.873  | 24.811  | 1.47     | -16.74   | 4.97              | 120             | 44.63     | 44.43     |
| 2470                  | 46.01    | -3.37     | 1.57       | -0.58      | 20.954  | 25.061  | 1.57     | -17.79   | 4.95              | 120             | 44.56     | 44.29     |
| 2480                  | 47.58    | -3.23     | 2.05       | -0.1       | 22.246  | 25.334  | 2.05     | -19.85   | 5.27              | 60              | 44.67     | 44.37     |
| 2490                  | 51.46    | -2.89     | 2.62       | 0.47       | 24.645  | 26.814  | 2.62     | -20.28   | 5.5               | 0               | 44.7      | 44.46     |
| 2500                  | 51.32    | -2.9      | 2.69       | 0.54       | 25.073  | 26.244  | 2.69     | -22.69   | 5.59              | 0               | 44.59     | 44.18     |

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Performance parameters

|                     |                     |
|---------------------|---------------------|
| Product name        | 2.4G FPC天线          |
| Model Type          | 2.4G -0.81-IPEX1-80 |
| Frequency Range     | 2400-2500 MHz       |
| Band Width          | 100MHz              |
| Vswr                | ≤2.0                |
| Gain                | 2.50Bi              |
| Impedance           | 50 OHM              |
| Polarization        | Vertical            |
| Radiation           | OMNIDIRECTIONAL     |
| Max power           | 10 W                |
| Connector           | IPEX-1              |
| Cable               | RF 0.81线-80MM       |
| Dimensions          | 22mm * 18mm         |
| Temperature         | -35° -- 85°         |
| Lighting protection | DC grounding        |

18

22

11.8

6.8

80±2MM

0.81黑色线

离型纸切断线

3M背胶

代码

料号

品名

小黄板FPC 2.4G

型号

变更记录

日期

变更者

纸张

A4

绘图

ZHANG

日期

2024.10.25

版本

A

审核

图法

比例

1:1

单位

mm

页码

1/1