

# 红点信息科技有限公司（深圳）有限公司

Customer Name: Shenzhen Zhuolimei Electronics Co., Ltd

Model \_\_\_\_\_

Customer Item No: \_\_\_\_\_

Customer specifications: \_\_\_\_\_

Red Dot Item No.: HD.F-21-13-IPX \_\_\_\_\_

Red dot specification description: \_\_\_\_\_

2.4G antenna 0.81 black wire length 45mm, third generation  
terminal pasted with foam (RoHS)

## 承 认 书

| 确 认 签 字 盖 章 |             |     |         |             |    |
|-------------|-------------|-----|---------|-------------|----|
| 红 点 确 认     |             |     | 客 户 确 认 |             |    |
| 制样          | 审核          | 批准  | 验证      | 审核          | 批准 |
| 周路超         | 左婧          | 张冬梅 |         |             |    |
| 红点签字盖单      |             |     | 客户签字盖单  |             |    |
| 日 期         | 2022 04- 12 |     | 日 期     | 2022 04- 12 |    |

## Redpoint Information Technology (Shenzhen) Co., Ltd

Document preparation/modification/resume

[illegible]

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3、catalogue

1、cover..... 1

2、Document Development..... 2

3、catalogue..... 3

4、Product drawings..... 4

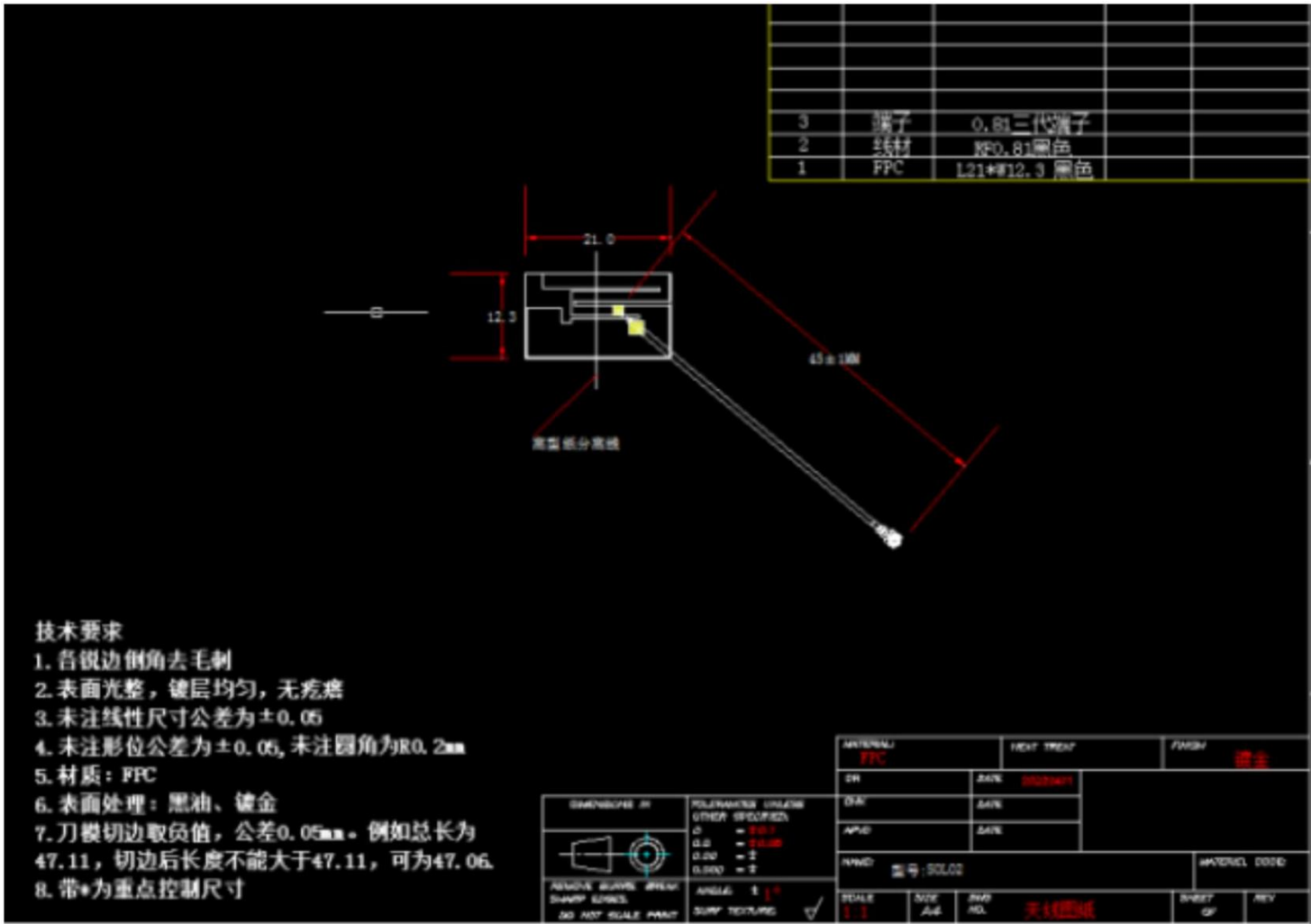
5、Passive performance test parameters..... 5

6、2D, 3D performance chart..... 6-8

7、Electrical performance test report..... 9

8、Packaging specification..... 10

4、Product drawings



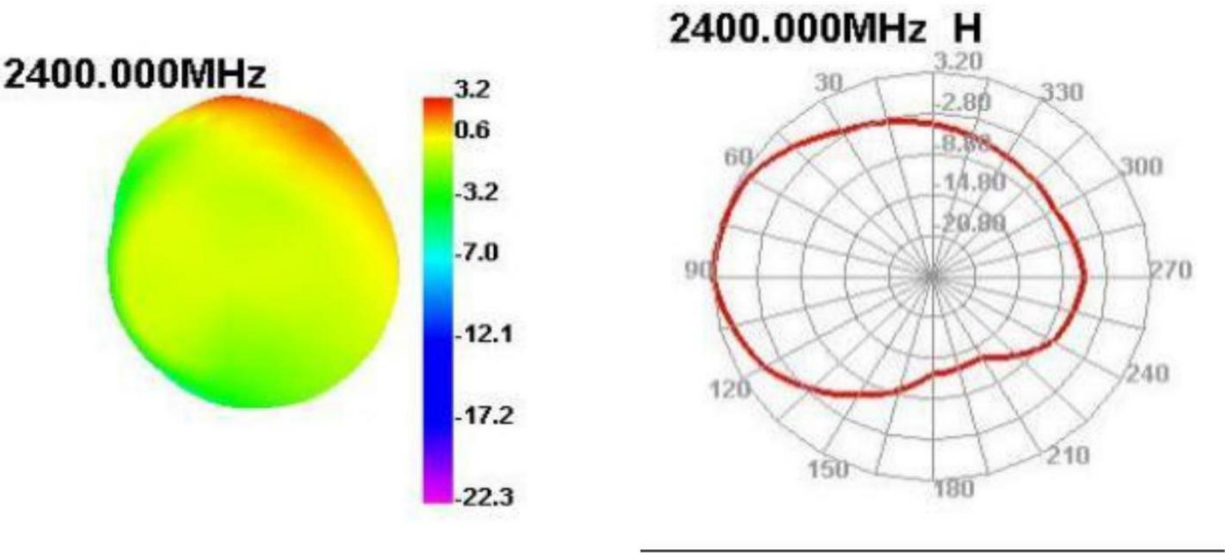
## 5. Passive performance test parameters

|                 |       |       |       |
|-----------------|-------|-------|-------|
| Frequency (MHz) | 2400  | 2450  | 2500  |
| Return loss     | -10.5 | -14.8 | -10.2 |

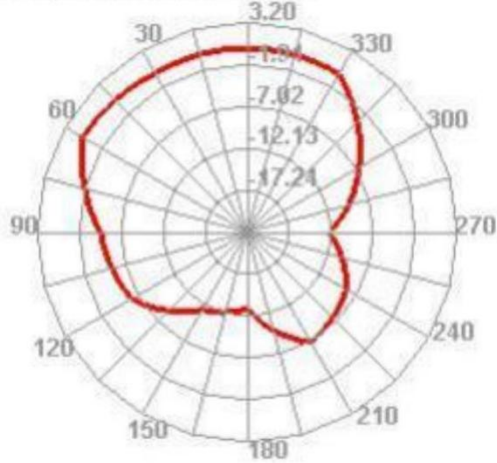


6、2D. 3D Performance Chart

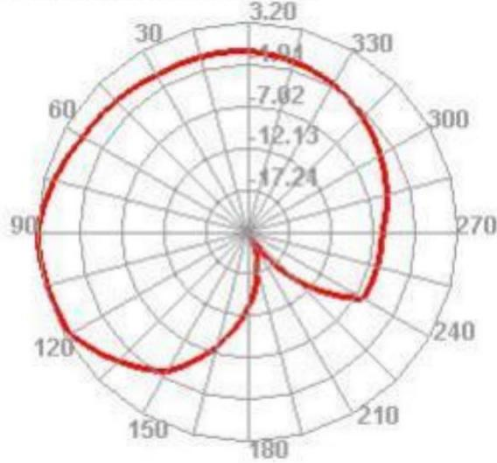
| Passive Test For WIFI2.4 |       |       |       |       |
|--------------------------|-------|-------|-------|-------|
| Freq                     | Effi  | Effi  | Gain  | Gain  |
| (MHz)                    | (%)   | (dB)  | (dBi) | (dBd) |
| 2400                     | 56.8  | -2.37 | 3.1   | 1.06  |
| 2410                     | 60.05 | -2.22 | 3.38  | 1.25  |
| 2420                     | 61    | -2.08 | 3.56  | 1.41  |
| 2430                     | 63.05 | -3    | 3.85  | 1.68  |
| 2440                     | 62.57 | -2.56 | 3.58  | 1.45  |
| 2450                     | 62.07 | -2.1  | 3.76  | 1.7   |
| 2460                     | 58.9  | -2.39 | 3.48  | 1.3   |
| 2470                     | 61.23 | -2.25 | 3.7   | 1.56  |
| 2480                     | 56.5  | -2.6  | 3.39  | 1.25  |
| 2490                     | 59.05 | -2.38 | 3.46  | 1.35  |
| 2500                     | 53.05 | -2.31 | 2.85  | 0.67  |



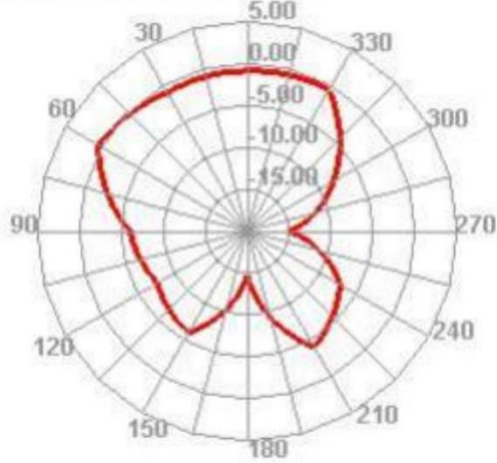
2400.000MHz E1



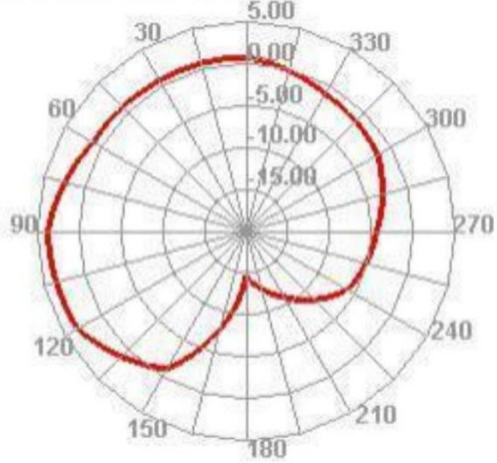
2400.000MHz E2



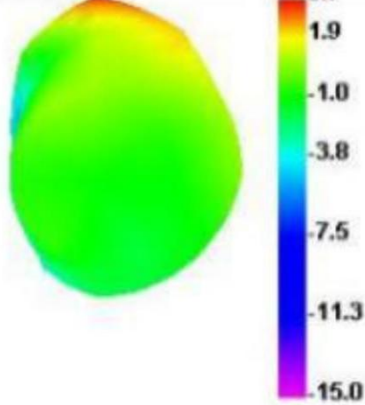
2450.000MHz E1

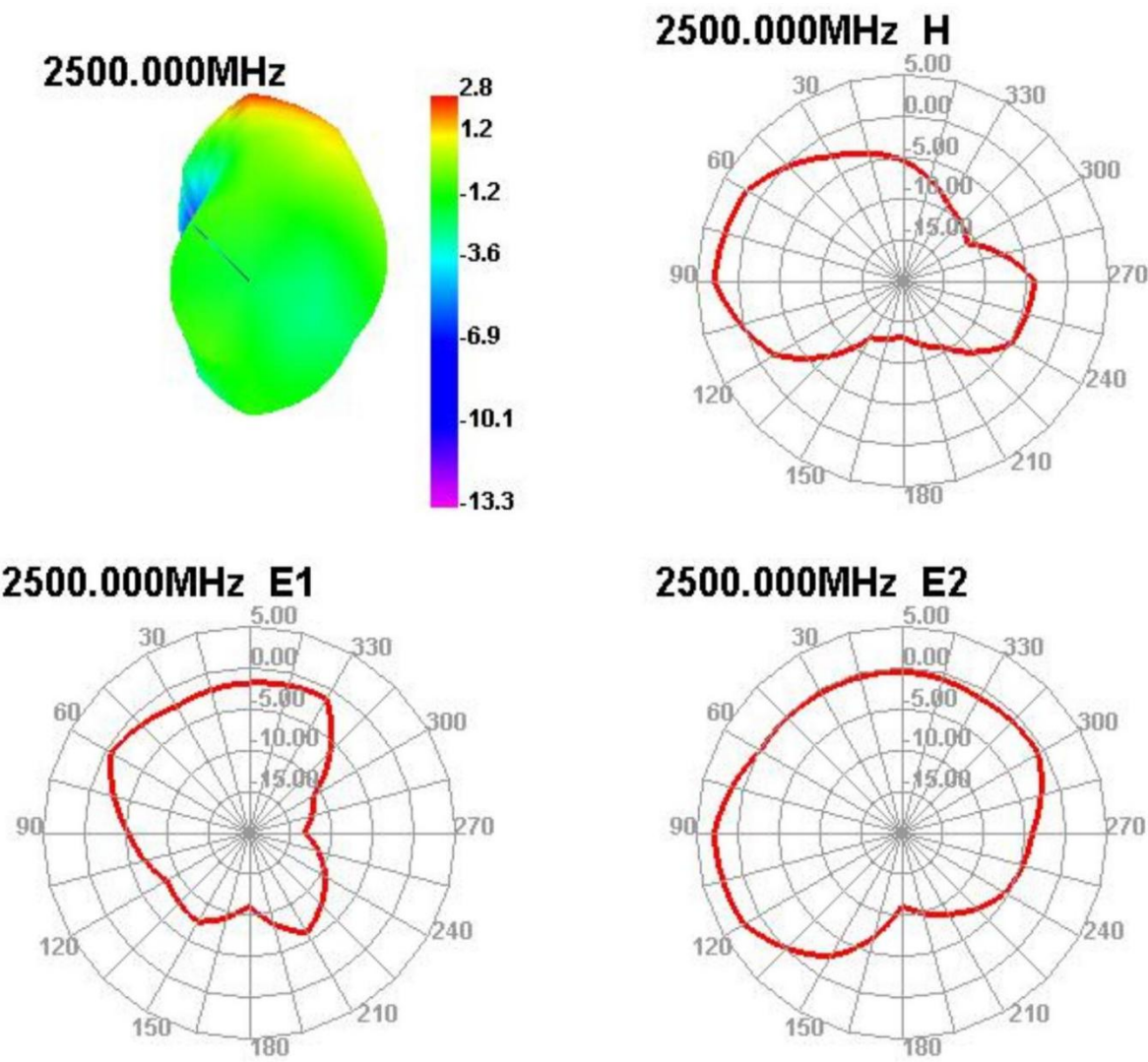


2450.000MHz E2



2450.000MHz





7、电气性能参数

| 名称<br>项目   | 2.4G 天线   | Name                      | 2.4G Antenna        |
|------------|-----------|---------------------------|---------------------|
| 频率范围 (MHz) | 2400-2500 | Frequency (MHz)           | 2400-2500           |
| 带宽 (MHz)   | 100       | Bandwidth (MHz)           | 100                 |
| 极化方式       | 线极化       | Polarization Type         | linear polarization |
| 天线增益 (dBi) | 3.85      | Gain (dBi)                | 3.85                |
| 辐射方向       | 全向        | Radiation Pattern         | Omni directional    |
| 电压驻波比      | ≤2.5      | VSWR                      | ≤2.5                |
| 输入阻抗 (Ω)   | 50        | Input Impedance (Ω)       | 50                  |
| 电缆线长度 (mm) | 45        | Cable length (mm)         | 45                  |
| 电缆线颜色      | 黑色        | Cable Colour              | Black               |
| 接口形式       | IPEX      | Connector Type            | IPEX MHF            |
| 工作温度 (℃)   | -40~+85   | Operation temperature (℃) | -40~+85             |
| 存储温度 (℃)   | -40~+85   | Store temperat (℃)        | -40~+85             |

## 8、Packaging specification

Product Item No.: HD.F-21-13-IPX

specificati 2.4G antenna 0.81 black wire length 45mm third generation terminal

on:

Demander:

supplier: Redpoint Information Technology (Shenzhen) Co., Ltd

