

# 承 认 书

## APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G W68 黑色天线 L=250mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C250B5Daa12A REV: A

|              | MANUFACTURER<br>SIGNATURE                                                           | CUSTOMER<br>SIGNATURE |
|--------------|-------------------------------------------------------------------------------------|-----------------------|
| CHECKED BY:  |  |                       |
| APPROVED BY: | Changxing.Liu                                                                       |                       |
| DATE:        | 2023-7-3                                                                            |                       |

Modification History

| Version | Content Revision | Issued by | Date     |
|---------|------------------|-----------|----------|
| A       | Original version | Lina      | 2023-7-3 |
|         |                  |           |          |
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## *Content*

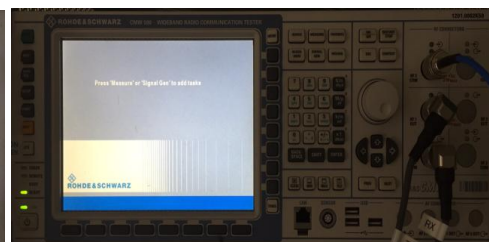
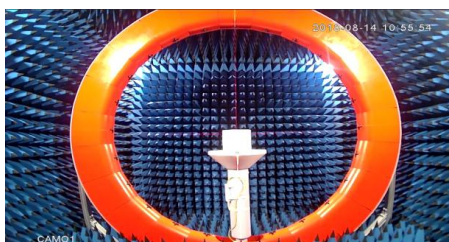
| <i>Item</i> | <i>Description</i>       |
|-------------|--------------------------|
| 1.-----     | Electrical Specification |
| 2.-----     | Test Items and Equipment |
| 3.-----     | S Parameter              |
| 4.-----     | Efficiency and Gain      |
| 5.-----     | Radiation Pattern        |
| 6.-----     | Mechanical Specification |
| 7.-----     | Packaging                |

## 1.Electrical Specification:

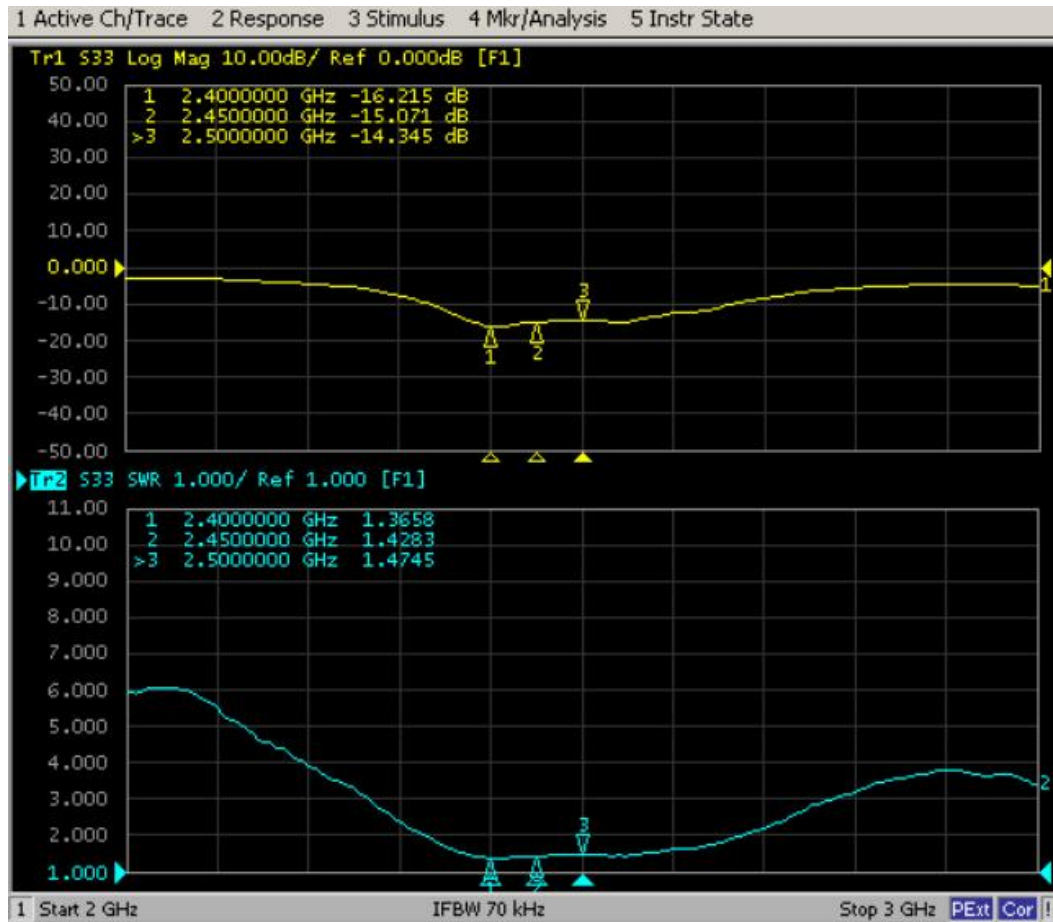
| Characteristics       | Specifications      | Unit     |
|-----------------------|---------------------|----------|
| Outline Dimensions    | 15.95x194.81,L250   | mm       |
| Frequency             | 2400-2500           | MHz      |
| Impedance             | 50                  | $\Omega$ |
| VSWR                  | < 1.92              |          |
| Polarization          | Linear Polarization |          |
| Gain                  | 4.26                | dBi      |
| Efficiency            | > 60                | %        |
| Connector Type        | 1.13 MHF-1-Plug     |          |
| Operating temperature | -40℃~+85℃           |          |
| Storage Temp          | -40℃~+85℃           |          |

## 2.Test Items and Equipment

|                                            | Test items                                   | Test equipment                                                                       |
|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| S Parameter                                | 1.Return Loss<br>2.VSWR                      | Network analyzer<br>(Agilent E5071B)                                                 |
| The whole machine of<br>Passive parameters | 1.Frequency<br>2.Gain<br>3.Radiation Pattern | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Network analyzer<br>(Agilent E5071B)      |
| The whole machine of<br>Active parameters  | 1.TRP<br>2.TIS                               | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Comprehensive test instrument<br>(CMW500) |

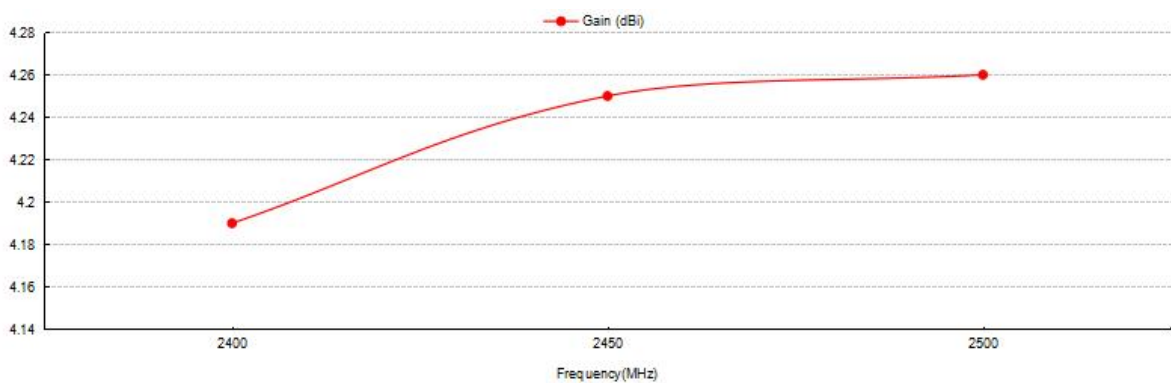
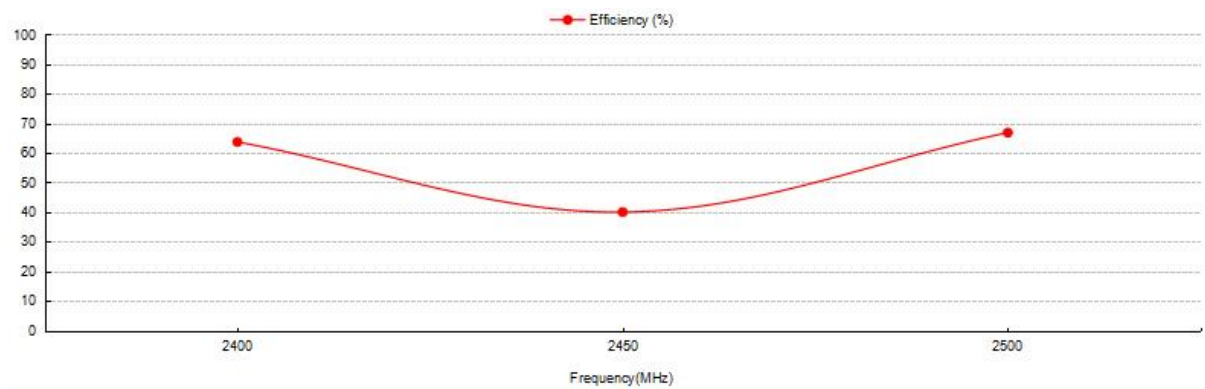


### 3. S Parameter



| Frequency (MHz) | Return Loss (dB) | VSWR |
|-----------------|------------------|------|
| 2400            | -16.21           | 1.36 |
| 2450            | -15.07           | 1.42 |
| 2500            | -14.34           | 1.47 |

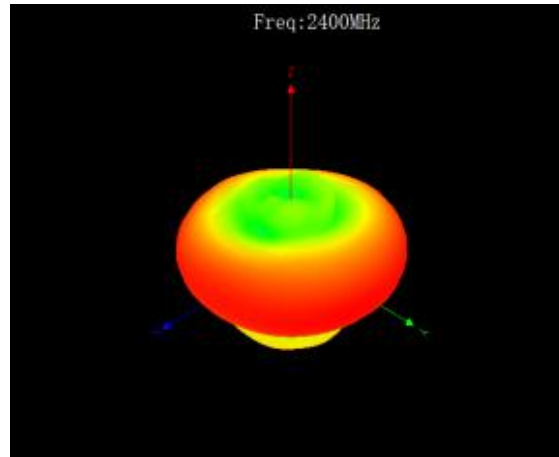
4. Efficiency and Gain



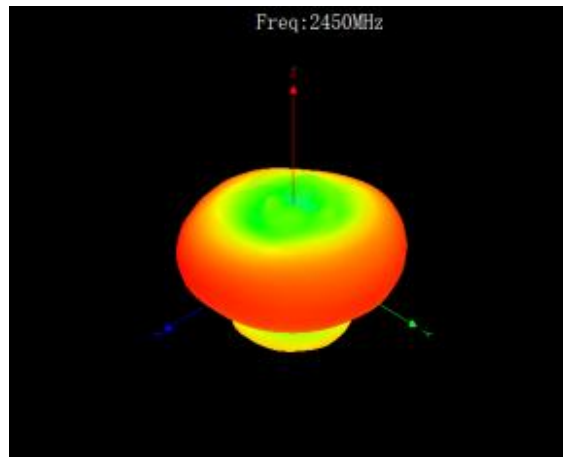
| Frequency (MHz) | 2400 | 2450  | 2500  |
|-----------------|------|-------|-------|
| Efficiency (%)  | 63.7 | 69.99 | 66.85 |
| Gain (dBi)      | 4.19 | 4.25  | 4.26  |

## 5. Radiation Pattern

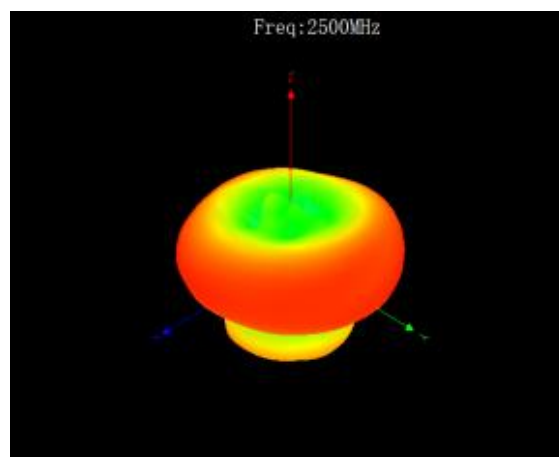
5-1 Antenna 3D Radiation Pattern



2400MHz

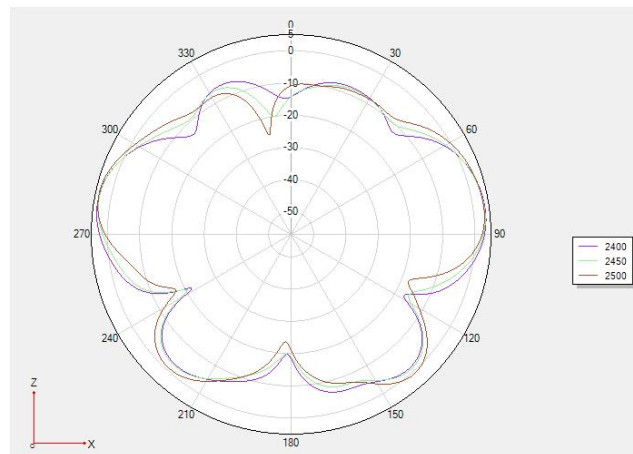


2450MHz

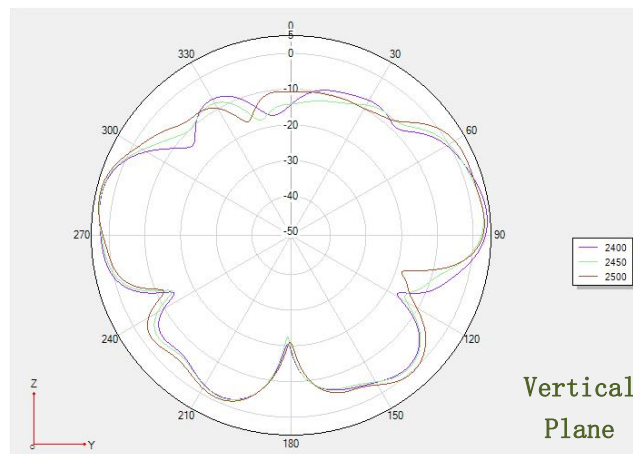


2500MHz

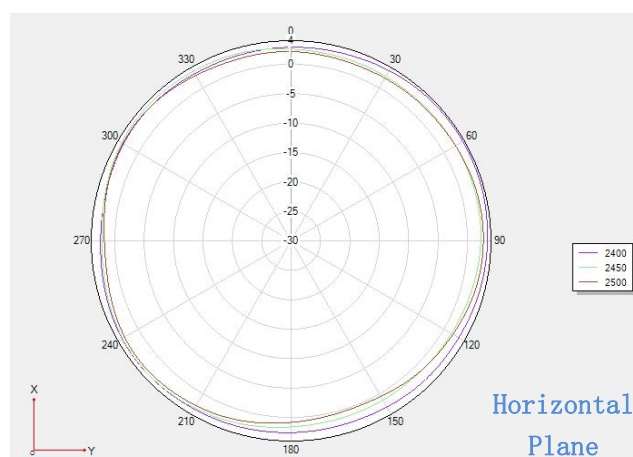
## 5-2 Antenna 2D Radiation Pattern



Phi 0 2D



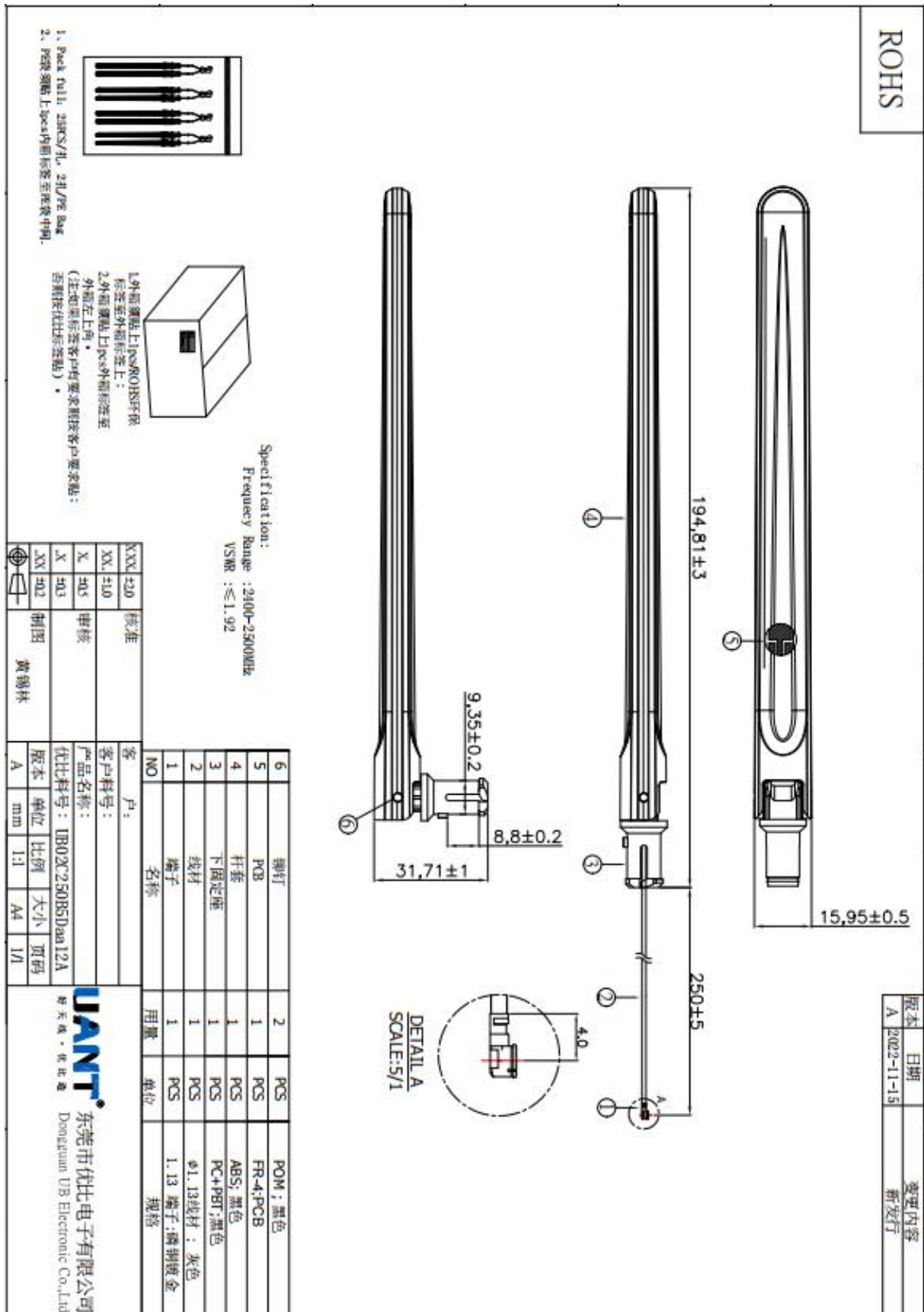
Phi 90 2D



Theta 90



## 6. Mechanical Specification:



### 7. Packaging

**UANT<sup>®</sup>**

好天线 · 优比造

## 产品包装规范

单个产品

内袋包装说明:

1. 25pcs产品包扎成一扎, 每袋装入2扎产品共计50pcs.
2. PE袋进行封口.
3. 每袋需贴1pcs内袋标签至PE袋正中间位置.
4. PE袋尺寸: 长330mm\*宽220mm\*厚0.08mm.

内袋包装

PE袋

橡皮筋固定

外置出线系列

外包装

外层和顶层各放1pcs平卡

外包装箱封箱标准:  
先用胶带封紧, 然后用2条打包带固定。

外箱包装

外箱标签  
需贴/ROHS标签

注:

此份包装规范适用于外露 $\geq 100\text{mm}$ +ipex和外露 $\geq 100\text{mm}$ 不带ipex产品, 属于通用类型, 包括以下产品: 产品直径 $>11\text{mm}$

1. 3dBi四环、3dBi六环, 中号纸箱装500pcs产品每箱, 大号纸箱装1200pcs产品每箱。
2. 5dBi圆形、5dBi剑形、5dBi梯形、5dBi刀形, 梯形, 中号纸箱装450PCS产品每箱, 大号纸箱装1000pcs产品每箱。

|                   |                   |      |       |   |   |
|-------------------|-------------------|------|-------|---|---|
| 东莞市优比电子有限公司       |                   |      |       |   |   |
| 客户代码:             | 工单号:              | 订单号: | 生产日期: | 组 | 别 |
| 客户料号:             |                   |      |       |   |   |
| 品名规格:             |                   |      |       |   |   |
| 数量:               |                   |      |       |   |   |
| 电话: 0769-81777126 | 传真: 0769-81777125 |      |       |   |   |

|                   |                   |      |       |   |   |
|-------------------|-------------------|------|-------|---|---|
| 东莞市优比电子有限公司       |                   |      |       |   |   |
| 客户代码:             | 工单号:              | 订单号: | 生产日期: | 组 | 别 |
| 客户料号:             |                   |      |       |   |   |
| 品名规格:             |                   |      |       |   |   |
| 数量:               |                   |      |       |   |   |
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