

# 深圳旭航通讯科技有限公司

Shenzhen Xuhang Communication

## 规格承认书

|                      |          |
|----------------------|----------|
| 客户<br>CUSTOMER       | 平方芯创     |
| 客户料号<br>CUSTOMER NO. |          |
| 供方品名<br>PART NAME    | WiFi 天线  |
| 规格名称<br>SUPPLIER NO. | XH240102 |

|                                 |             |                  |
|---------------------------------|-------------|------------------|
| 客户确认<br>CUSTOMER    APPROVED BY |             |                  |
| 检验<br>APPROVAL                  | 审核<br>CHIEF | 批准<br>SUPERVISOR |
|                                 |             |                  |

|              |             |                |
|--------------|-------------|----------------|
| 设计<br>DESIGN | 审核<br>CHECK | 批准<br>APPROVAL |
| Luo          | Robert      | SHANG          |

Date:September 13, 2024

# DIRECTORY

[illegible]

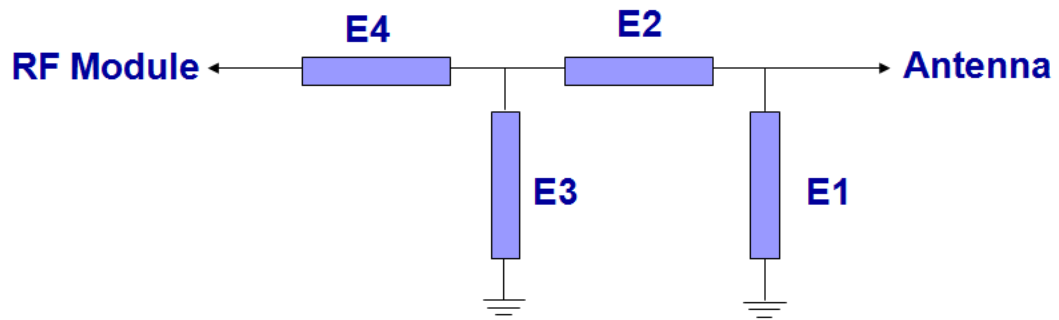
# 电性测试报告

## TEST REPORTS

|                          |                    |
|--------------------------|--------------------|
| 频率<br>Frequency          | WIFI(2400~2500MHz) |
| 阻抗<br>Impedance          | 50 Ohm Nominal     |
| 驻波比<br>V.S.W.R           | ≤2.0               |
| 回波损耗<br>Return Loss      | -10dB Max          |
| 辐射<br>Radiation          | Omni-directional   |
| 增益<br>Gain(Peak)         | 2.4G;1.59dBi       |
| 极化方式<br>Polarization     | Linear,Vertical    |
| 功率<br>Admitted Power     | 1W                 |
| 连接器<br>Connector         | I-PEX I            |
| Physical Properties      |                    |
| 天线材质<br>Antenna Material | FPC                |
| 线材类型<br>Cable Type       | O.D.1.13mm         |
| 工作温度<br>Operating Temp.  | -10-+60℃           |
| 存储温度<br>Storage Temp.    | -10-+70℃           |
| 线材颜色<br>Cable Color      | Black              |

# 匹配电路

## Matching Circuits

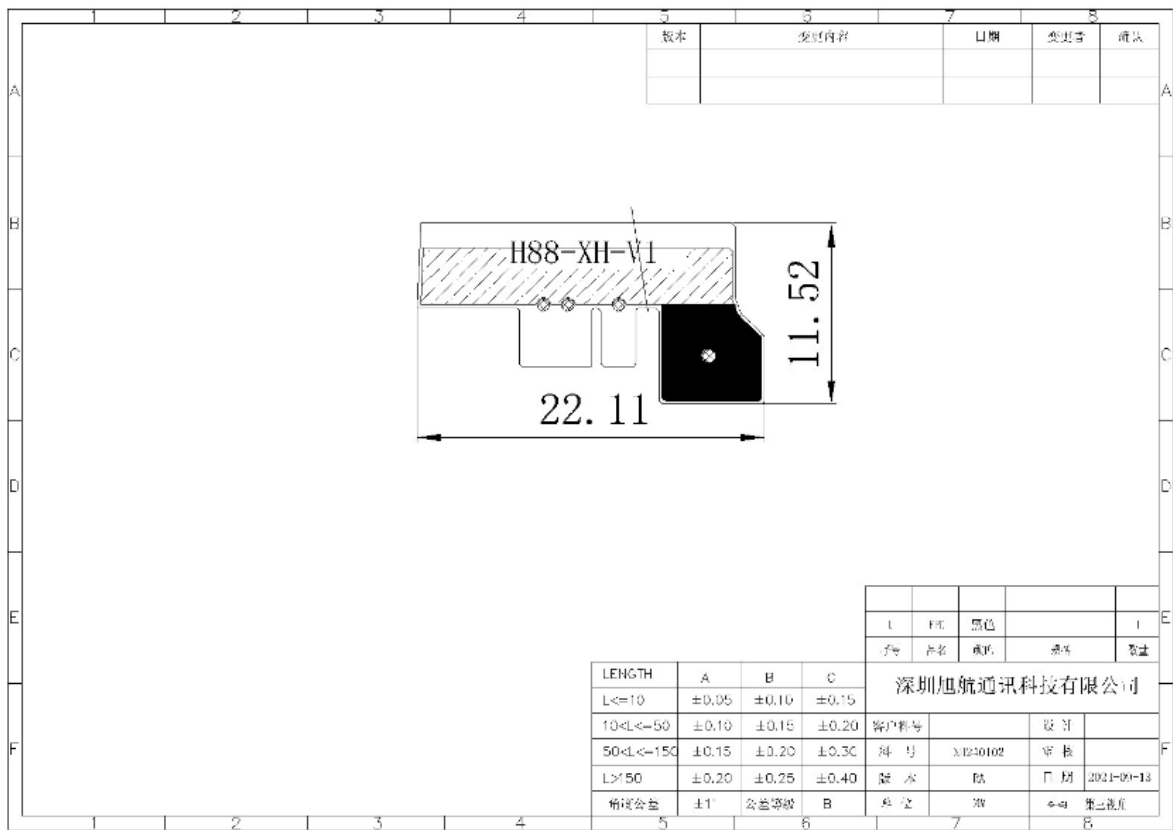


匹配电路

The original matching circuit has not been modified

工程图

DRAWING



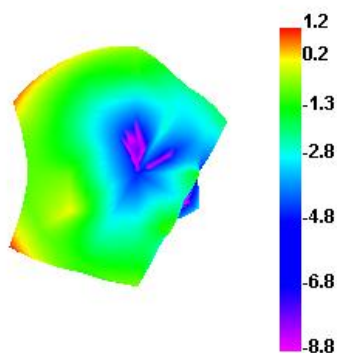
# 测试数据

## Test Data

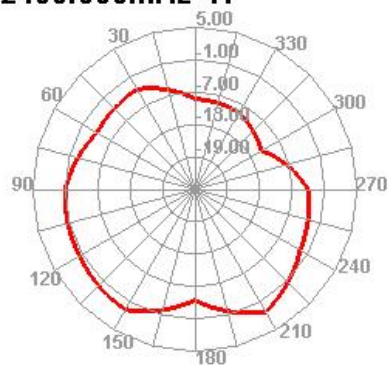
| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) |
|---------------|-------------|--------------|
| 2400          | 53.38       | 1.18         |
| 2410          | 53.99       | 1.25         |
| 2420          | 57.26       | 1.59         |
| 2430          | 49.72       | 0.75         |
| 2440          | 46.48       | 0.2          |
| 2450          | 43.52       | -0.32        |
| 2460          | 44.57       | -0.21        |
| 2470          | 52.06       | 0.83         |
| 2480          | 50.15       | 0.76         |
| 2490          | 53.24       | 1.22         |
| 2500          | 42.9        | 0.13         |

3D 方向图

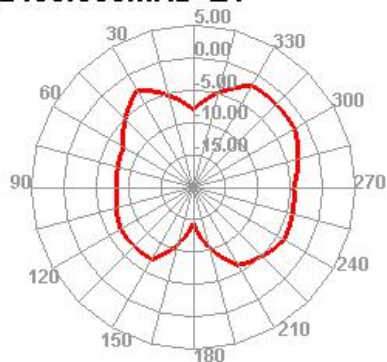
2400.000MHz



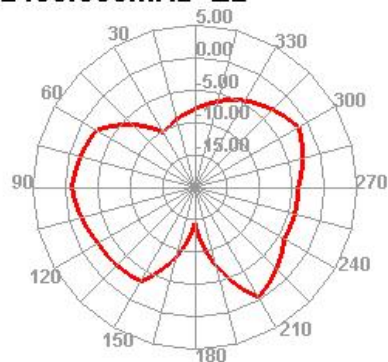
2400.000MHz H



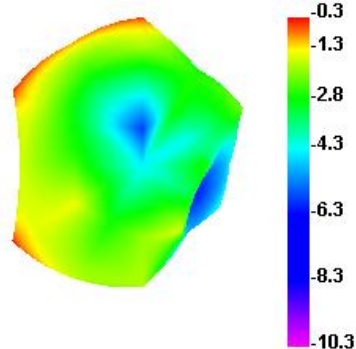
2400.000MHz E1



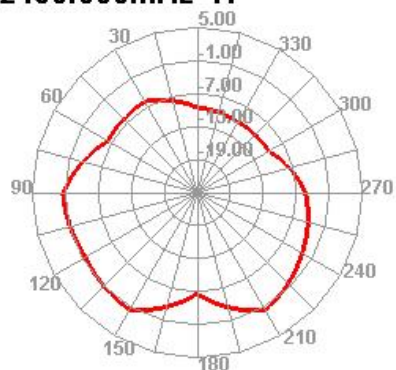
2400.000MHz E2



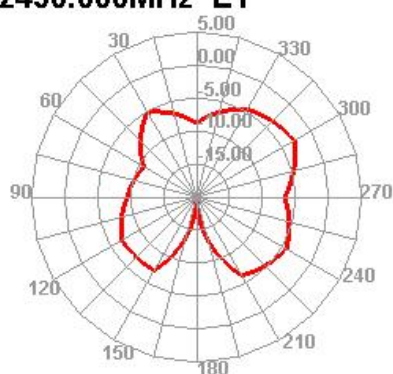
2450.000MHz



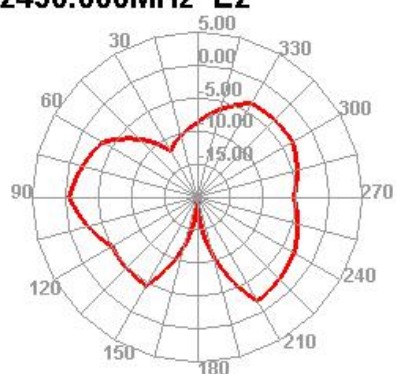
2450.000MHz H



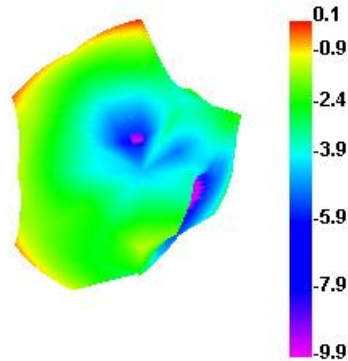
2450.000MHz E1



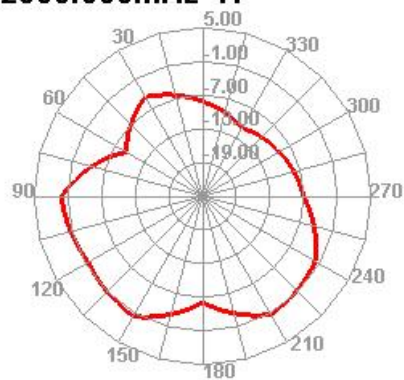
2450.000MHz E2



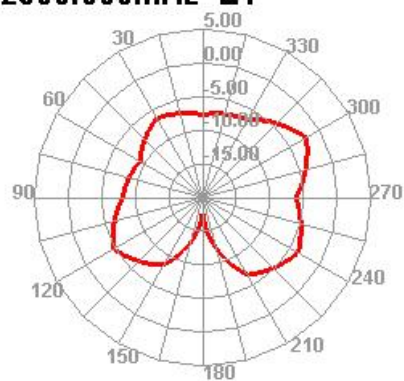
2500.000MHz



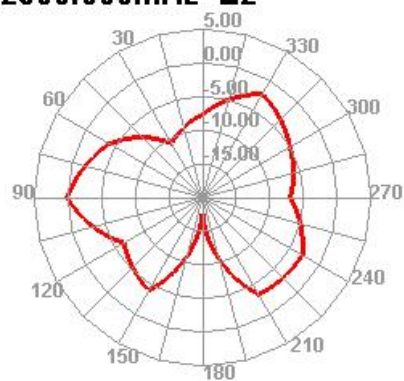
2500.000MHz H



2500.000MHz E1

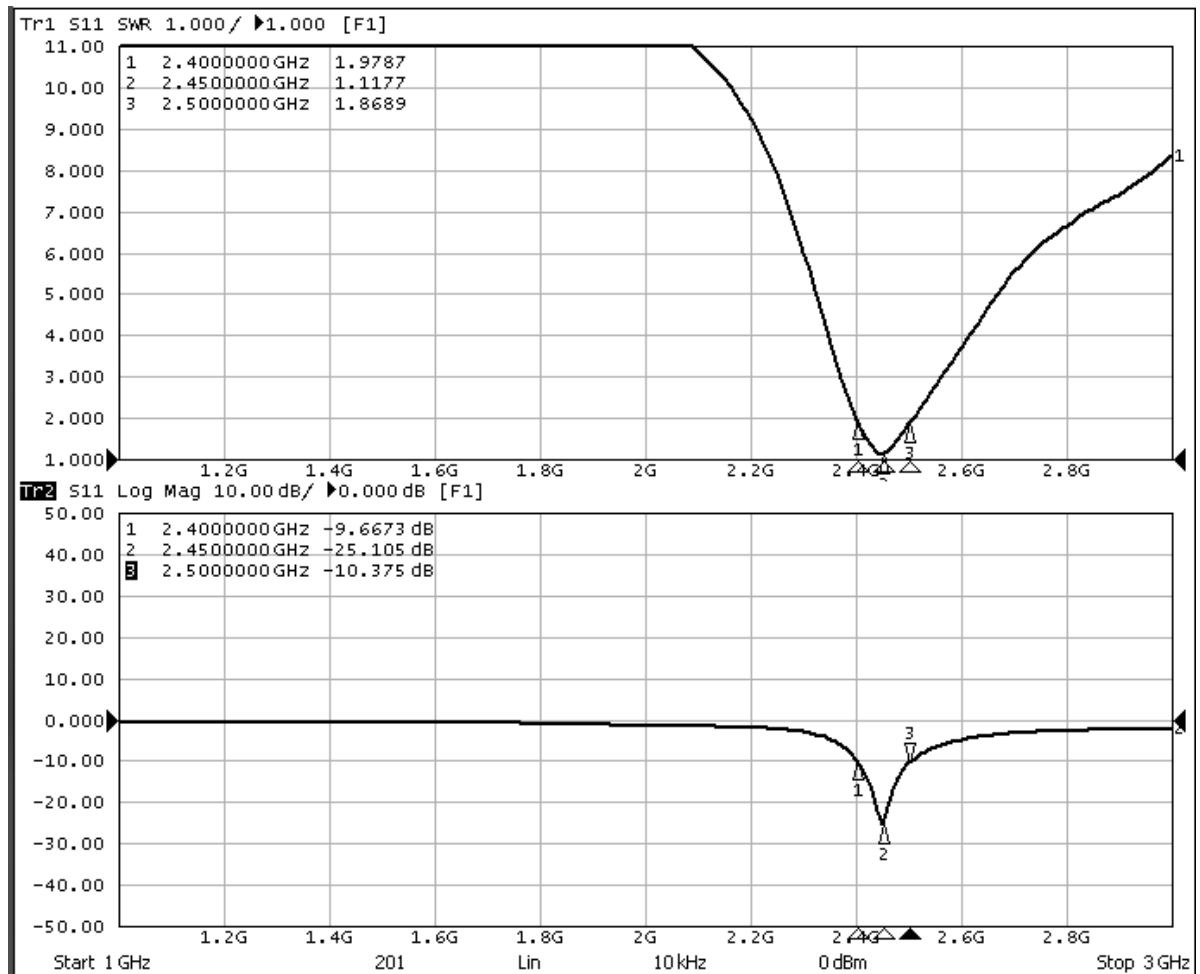


2500.000MHz E2



# 无源驻波

## Standing wave loss



# 天线装配位置 Antenna assembly position

