

# 规格书

SPECIFICATION

V1.2

|                      |              |                          |                                                         |
|----------------------|--------------|--------------------------|---------------------------------------------------------|
| 项目名称<br>Project Name | R1           | 客户<br>Customer           | Shenzhen yosong<br>Communication<br>Technology Co., Ltd |
| 天线类型<br>Antenna Type | 2.4G Antenna | 客户终端型号<br>Terminal Type  | RC14                                                    |
| 产品编号<br>Product No.  |              | 客户编号<br>Customer NO.     |                                                         |
| 主管签字<br>Confirmation |              | 客户承认<br>CustomerApproved |                                                         |
| 日期<br>Date           |              | 日期<br>Date               |                                                         |

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# 1.一般事项/General

## 1.1 适用范围/Scope

本规格书只适用于外置 2.4G 内置天线

## 1.2 使用温度范围/Operating Temperature Range

本产品使用温度范围-20 ~ +65 ℃

## 1.3 保存温度范围/Preservation Temperature Range

本产品保存于-30 ~ +75 ℃

# 2.产品一般规格/Specification

| 简述<br>Rough description  |                                    |               |
|--------------------------|------------------------------------|---------------|
| 条目<br>Item Initiall      | Specification Fina                 | Specification |
| 尺寸<br>Dimensions         | None                               |               |
| 阻抗<br>Impedance          | 50Ω                                |               |
| 测试环境<br>Test environment | Free space                         |               |
| 应用模式<br>Spectrum         | BT                                 |               |
| 频率范围<br>Freq. Range      | 2.4~2.5 GHz                        |               |
| 天线形式<br>Antenna type     | PIFA antenna                       |               |
| 驻波比<br>VSWR              | 2.4~2.5 GHz < 2.0                  |               |
| 增益<br>Gain               | 2.4~2.5 GHz :-0.5-0.dBi(Peak gain) |               |
| 辐射方向<br>Radiation        | Omin                               |               |
| 极化方式<br>Polarization     | Linear                             |               |
| 辐射效率<br>Rad. efficiency  | 2.4~2.5 GHz >40%                   |               |

|                             |      |  |
|-----------------------------|------|--|
| 连接头型号<br>Connector type     |      |  |
| 电缆型号<br>Cable type          |      |  |
| 电缆长度<br>Cable length(Total) |      |  |
| 绝缘<br>Isolation             | None |  |

### 3.产品规格明细/Specification Detials

#### 3.1 产品结构参数/Mechanical Properties

##### 3.11 产品物料组成/Product Composition:

| 序号/No. | 材料/Material | 规格 (MM) /Size |
|--------|-------------|---------------|
| 1      | 陶瓷          | 3516          |
| 2      |             |               |

##### 3.12 外观/Apperance

产品外观良好，无伤痕、汗迹、突起等严重影响外观缺陷。

Good appearance without scars 、dirts、protuberances, etc.

##### 3.13 产品图片及结构图纸/Antenna Picture and Structure Dimension

产品图片/Entity Picture:

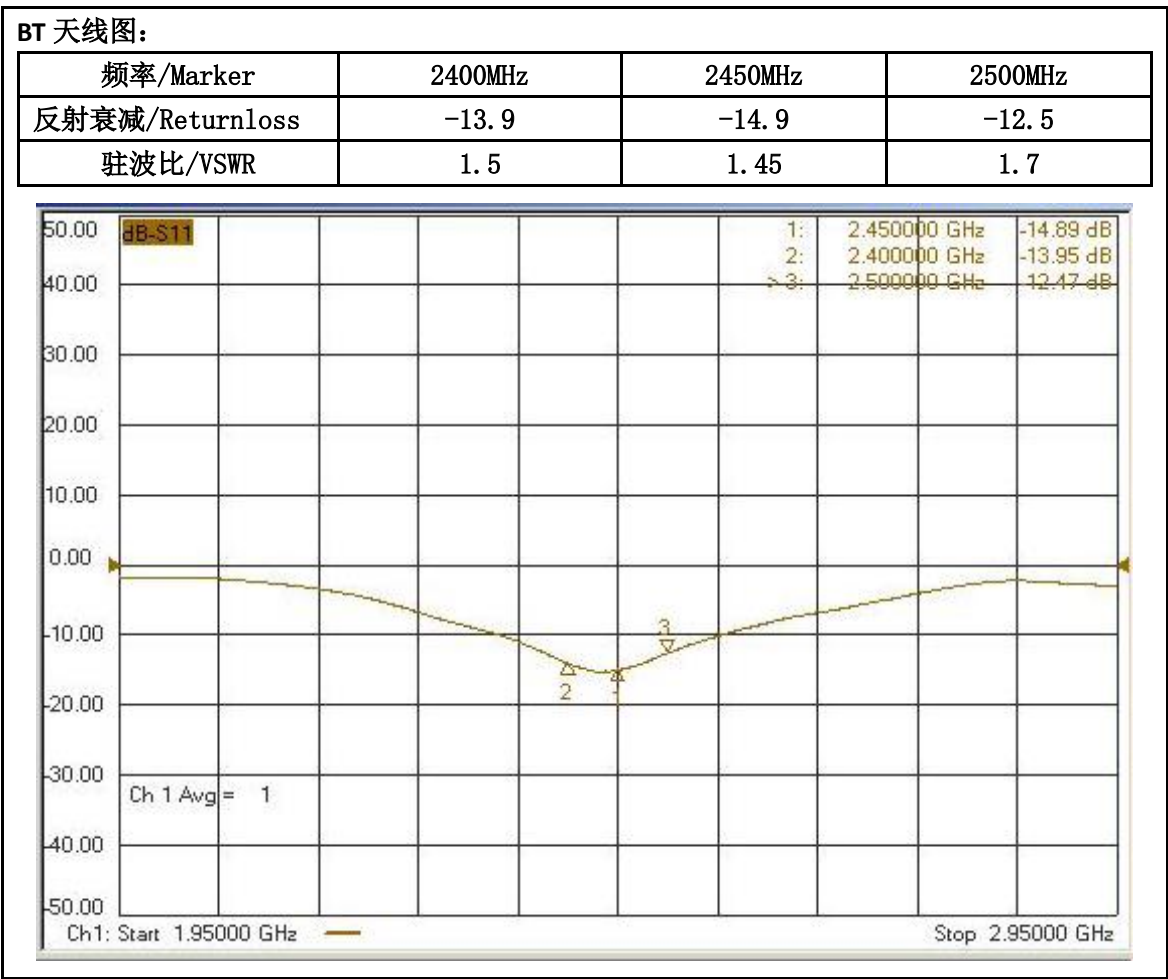
产品图纸/Antenna Drawing:

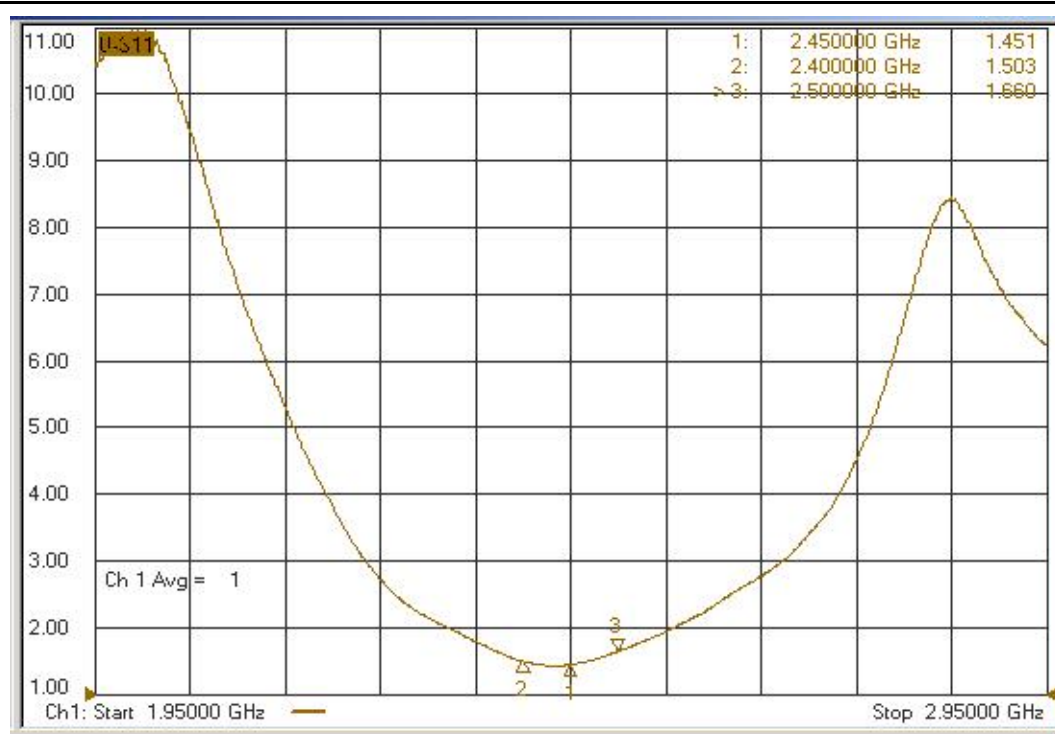
3.2 产品电性能测试数据/Electric Performance

3.21 测试环境及仪器设备/Test condition

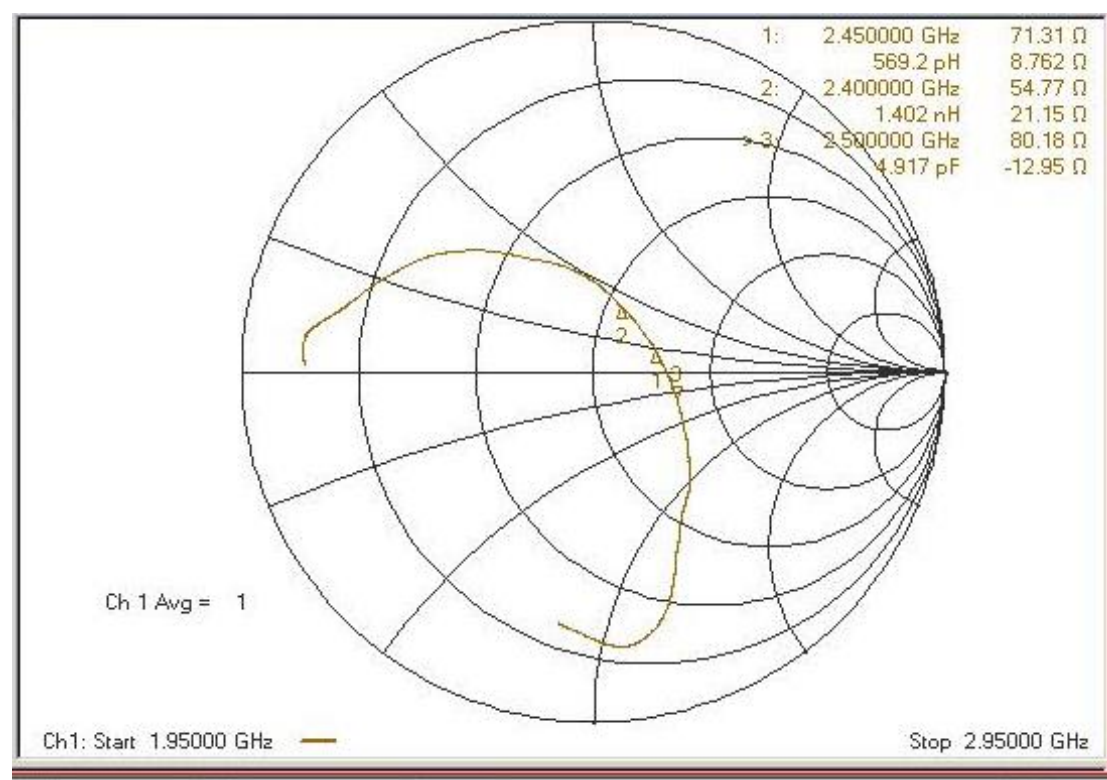
|                                 |                                 |
|---------------------------------|---------------------------------|
| 测试环境/Environment:               | 测试设备/Equipment:                 |
| 温度/Temperature: 10℃——+30℃       | Network Analyzer: HP8753D 网络分析仪 |
| 相对湿度/Humidity: ≤80% (+40℃)      | Anechior Chamber: ETS 微波暗室      |
| 大气压力/Atmosphere: 750mmkg±30mmkg |                                 |

3.22 产品电性能测试数据/Test Data for Electrical Performance:





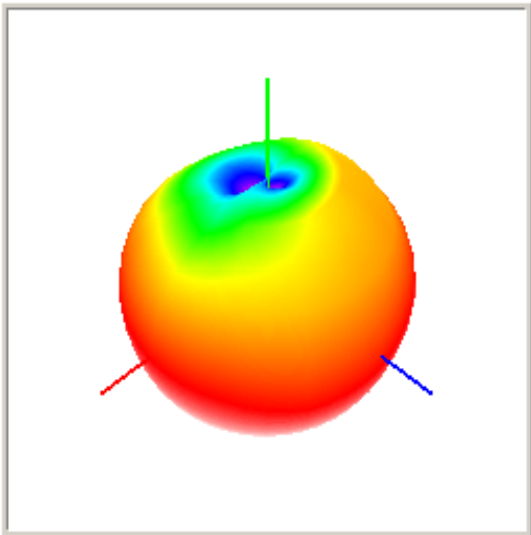
Smith 图:



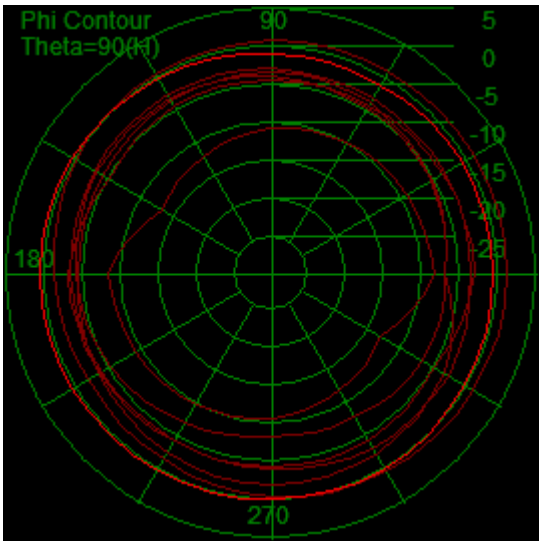
增益方向图/Gain and Radiation Pattern

| 频率/Marker         | 2400MHz | 2450MHz | 2500MHz |
|-------------------|---------|---------|---------|
| 增益/PeakGain (dBi) | -0.59   | -0.26   | 0       |
| 效率/Efficiency (%) | 54.7    | 63.2    | 73.4    |

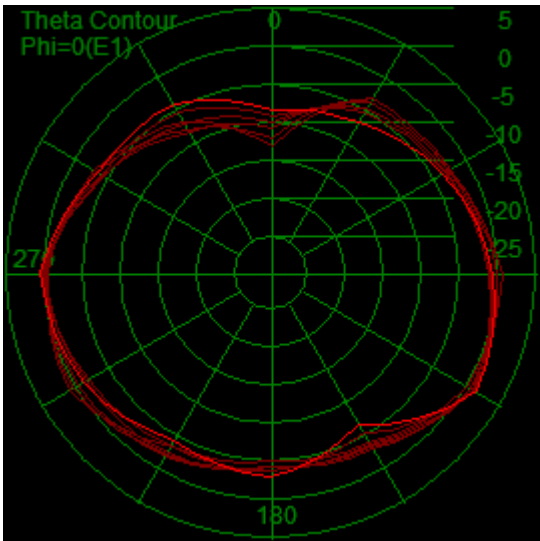
频率点/Frequency     2450MHz



3D



H 面



E 面

## 4. 产品包装方式/Product Packaging

包装方式/Package:

SMT 编袋圆盘包装，每包 4500PCS。

## 5. 文档履历/Document Resumewww

|                      |           |
|----------------------|-----------|
| 文件编号<br>Document No. |           |
| 日期<br>Release Date   | 2020/06/5 |
| 编制<br>Author         | zhangli   |
| 复核<br>Review         | NI        |

## 文件历次表/Revised History

[illegible]

## 6.天线尺寸规格

