

# Antenna specification

**Specification** Black inner needle dual frequency paddle/L=157.5MM/Reversed-SMA External Antenna

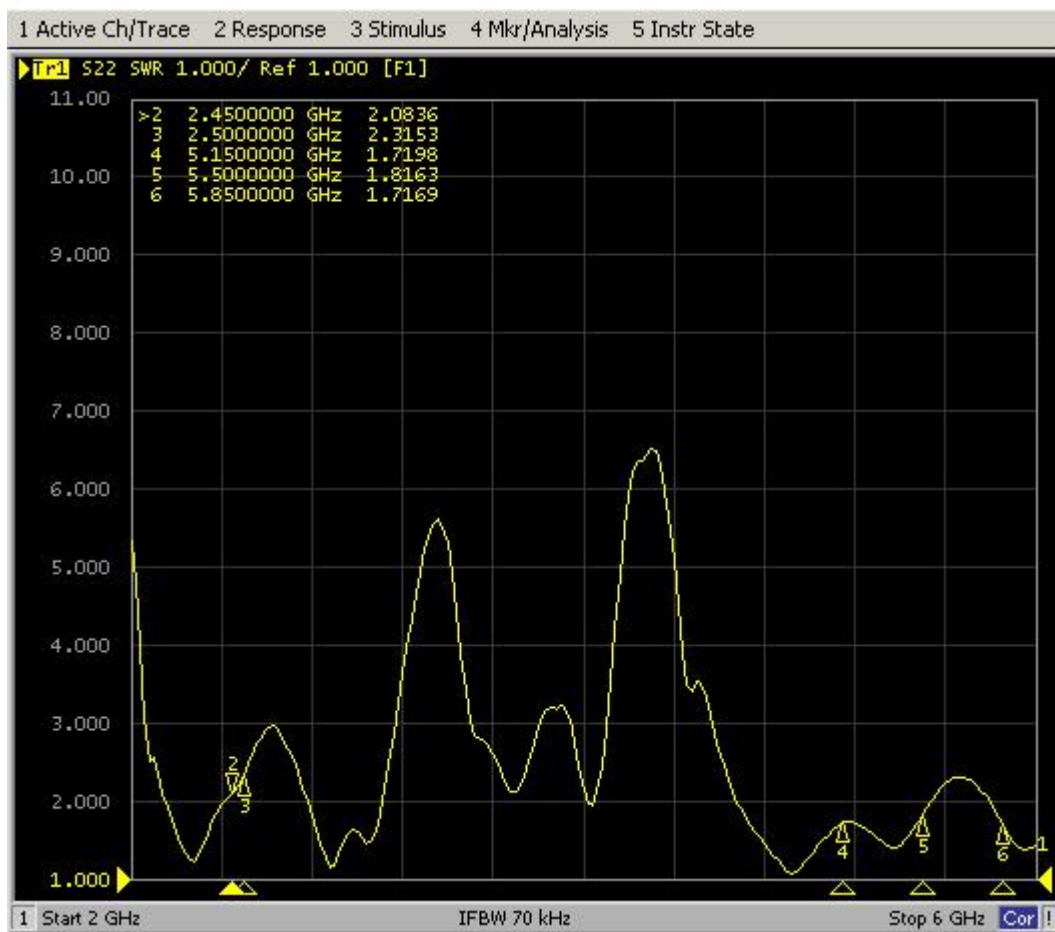
**Date** June 05, 2023

| check    | Review        | approve |
|----------|---------------|---------|
| Wang Fei | Liu Jingxiong | Li Bin  |

## 1. 产品图片 Product photo



## 2. 电气性能测试报告: VSWR:



### 3. 产品性能参数 Product Specifications

| 电性能指标Electrical Specifications               |                              |
|----------------------------------------------|------------------------------|
| 频率范围Frequency Range (MHz)                    | 2400-2500/5150-5850          |
| 输入阻抗Input Impedence ( $\Omega$ )             | 50                           |
| 电压驻波比V.S.W.R                                 | $\leq 2.0$ (未匹配设备, 仅供参考)     |
| 增益Gain (dBi)                                 | 3.5dBi                       |
| 极化形式Polarization Type                        | 垂直Vertical                   |
| 最大功率Maximum power(W)                         | 10W                          |
| 垂直面波瓣角度Vertical lobe Angle ( $^{\circ}$ )    | 45~60 $^{\circ}$             |
| 水平面波瓣角度Water plane lobe Angle ( $^{\circ}$ ) | 360 $^{\circ}$               |
| 机械指标Mechanical Specifications                |                              |
| 连接器型号Connect Type                            | SMA公头内针                      |
| 电缆型号Cable Type                               | /                            |
| 天线尺寸Size                                     | 157.5*18MM                   |
| 工作温度Operating Temp                           | -20 ~ +65 $^{\circ}\text{C}$ |
| 储存温度Storage Temp                             | -30 ~ +75 $^{\circ}\text{C}$ |

Measurements summary

| Frequency | Efficiency (dB) | Efficiency (%) | Gain (dBi) |
|-----------|-----------------|----------------|------------|
| 2402MHz   | -4.58           | 54.83          | 1.35       |
| 2404MHz   | -4.55           | 53.08          | 1.16       |
| 2440MHz   | -4.31           | 87.27          | 3.50       |
| 2441MHz   | -4.29           | 87.01          | 3.23       |
| 2472MHz   | -4.47           | 85.21          | 1.02       |
| 2480MHz   | -4.51           | 75.4           | 2.10       |

## Horizontal

