

# 产品规格书

## PRODUCT SPECIFICATION

Customer: Actions Microelectronics Co., Ltd.

Customer's part number: RBT-WIFI-524-004-2P5-L

Product description: 2.4G/5G iron sheet antenna

Manufacturer: Shenzhen RedbirdTek Technology Co., Ltd./銳博泰科技有限公司

Manufacturer Address: 201, No.9 Building, Software Park, KeJiZhong Er Road, GaoXinQu, NanShan, Shenzhen, China

### 1、产品技术指标（PRODUCT TECHNICAL SPECIFICATION）

| 电性能指标 Electrical Specifications   |                                           |
|-----------------------------------|-------------------------------------------|
| 频率范围 Frequency Range (MHz)        | 2400-2500/5150-5350/5700-5850             |
| 频带宽度 Bandwidth (MHz)              | 2.4G: 100    5G: 350                      |
| 输入阻抗 Input Impedence ( $\Omega$ ) | 50                                        |
| 电压驻波比 V.S.W.R                     | $\leq 2.0$                                |
| 增益 Gain (dBi)                     | 2.4G: $<3.04$ 5.1G: $<2.22$ 5.8G: $<2.12$ |
| 极化形式 Polarization Type            | 垂直 Vertical                               |
| 机械指标 Mechanical Specifications    |                                           |
| 天线长度 Antenna Length (mm)          | 21.5*3.5*4.5mm                            |
| 辐射体 Radiator                      | Nickel plating on steel sheet             |
| 连接器型号 Connect Type                | DIP                                       |

|                              |         |
|------------------------------|---------|
| 工作温度 Working Temp(°C)        | -20~90  |
| 储藏温度 Storage Temperature(°C) | -40~95  |
| 外壳颜色 Radome Color            | silvery |
| 重量 Weight (g)                | 0.5     |

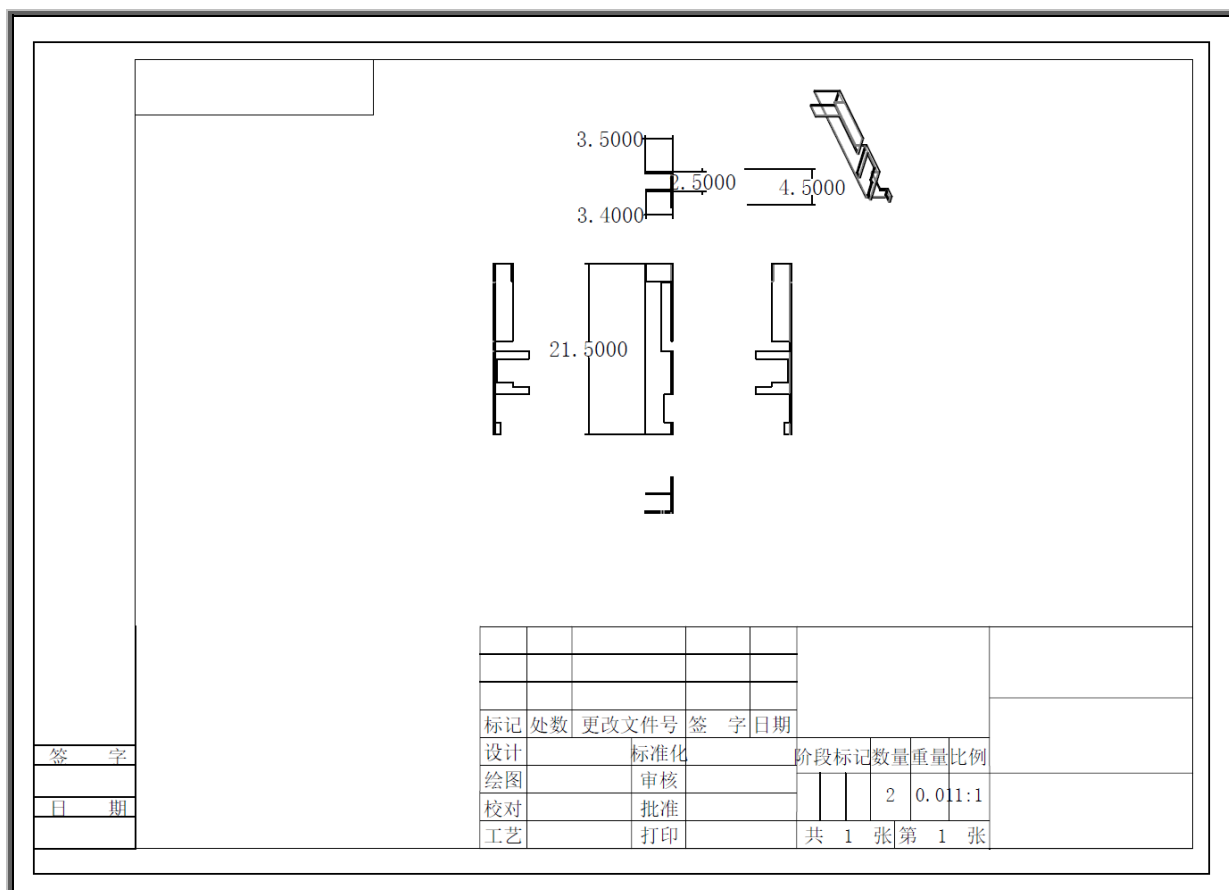
#### Product Introduction

This antenna is designed and produced specifically for wireless built-in antenna devices, with the advantages of beautiful appearance, compact structure, and easy installation. The material is made of nickel plated stainless steel, with sufficient hardness.

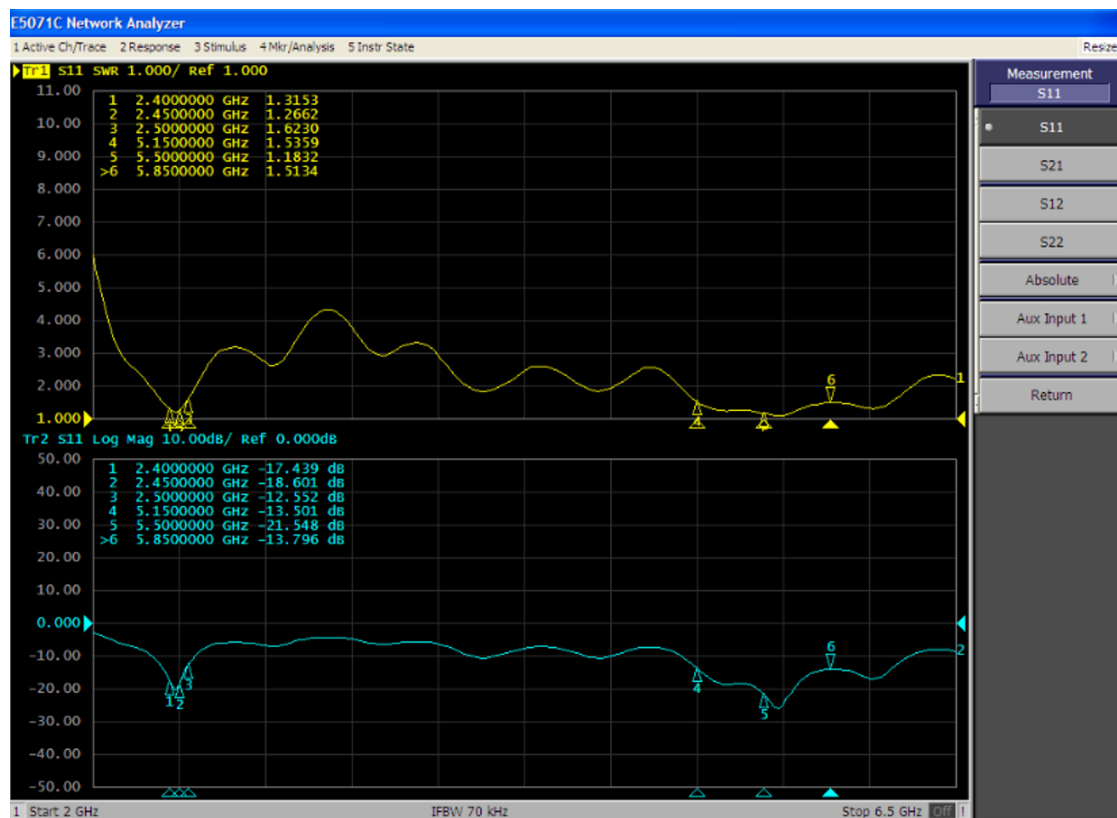
#### 2、产品图片（PRODUCT PICTURE）



#### 3、产品规格图(PRODUCT SPECIFICATION CHART)



#### 4、驻波图（STATIONARY WAVE PATTERN）



5.Gain efficiency value:

| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | 3.04   | 2.08   | 2.18   | 2.16   | 2.08   | 1.97   | 2.23   | 2.20   | 2.30   | 1.95   | 2.01   |
| Efficiency (%)  | 56.40  | 61.23  | 54.23  | 56.21  | 49.45  | 57.12  | 56.43  | 51.78  | 57.23  | 52.02  | 48.54  |

| 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5150.0 | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| 2.01   | 1.93   | 2.22   | 1.56   | 1.23   | 1.45   | 1.32   | 1.87   | 1.67   | 2.01   | 2.12   | 1.98   | 1.78   | 2.08   | 2.12   |
| 48.20  | 49.10  | 52.10  | 49.67  | 49.21  | 36.56  | 52.11  | 48.76  | 45.65  | 39.23  | 45.62  | 48.76  | 51.22  | 49.12  | 45.78  |

6.Field diagram

