

产品规格书

PRODUCT SPECIFICATION

Customer: Shenzhen Xianzhi IOT Technology Co., Ltd.

Customer’s part number: ANT000097

Product description: 5G Frequency Antenna

Manufacturer: Shenzhen RedbirdTek Technology Co., Ltd.

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

| 电性能指标 Electrical Specifications |               |
|---------------------------------|---------------|
| 频率范围 Frequency Range (MHz)      | 5150-5850     |
| 频带宽度 Bandwidth (MHz)            | 5G: 700       |
| 输入阻抗 Input Impedence (Ω)        | 50            |
| 电压驻波比 V.S.W.R                   | ≤2.0          |
| 增益 Gain (dBi)                   | 2.0dBi        |
| 极化形式 Polarization Type          | 垂直 Vertical   |
| 机械指标 Mechanical Specifications  |               |
| 天线长度 Antenna Length (mm)        | 7.1*3.4*0.5mm |
| 辐射体 Radiator                    | Copper        |
| 连接器型号 Connect Type              | NC            |
| 外壳颜色 Radome Color               | Silver        |
| 重量 Weight (g)                   | 0.02          |

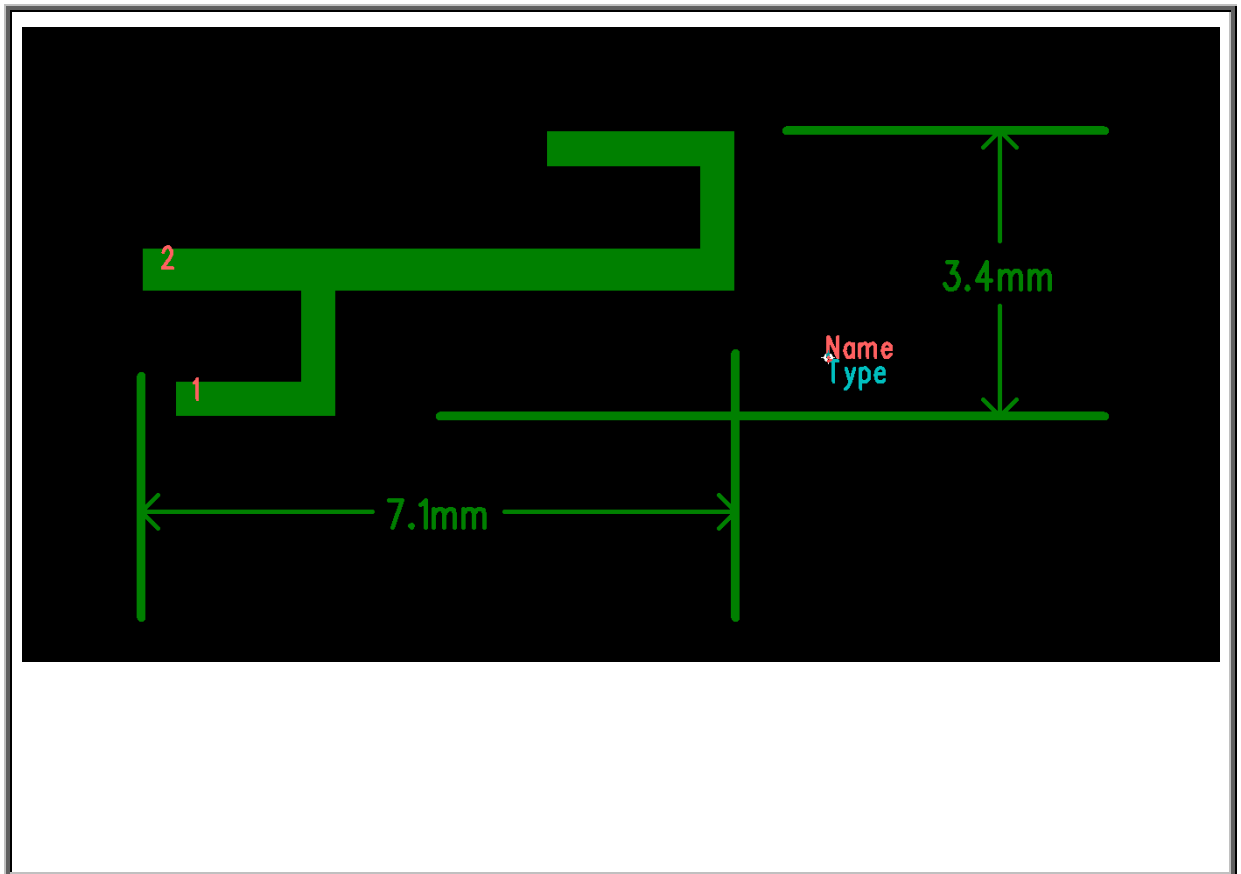
产品简介 Product introduction:

该天线是专为无线内置天线设备设计生产的，天线具有外形美观，结构小巧，一致性高，成本低廉。

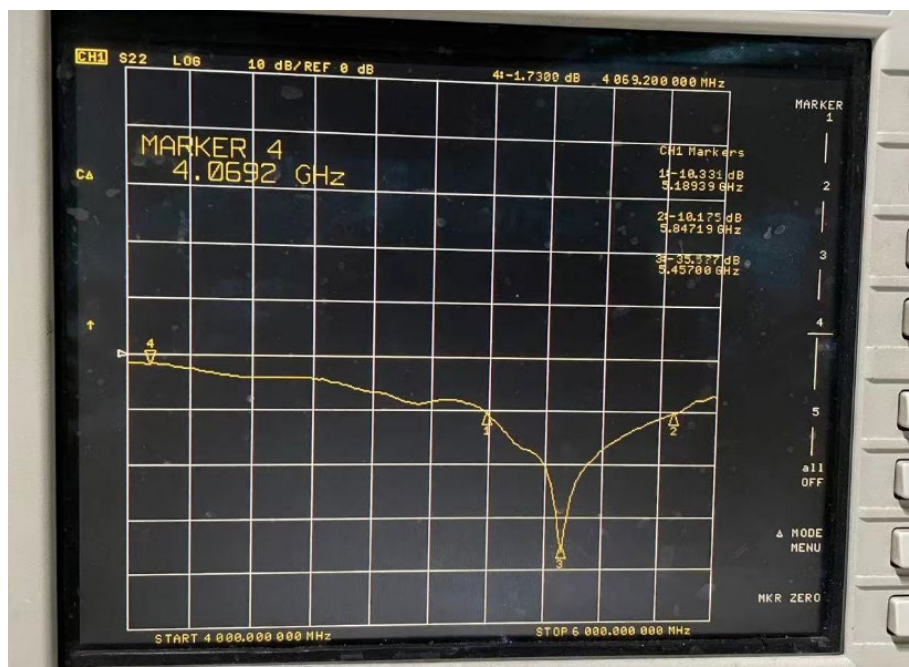
The antenna is specially designed and produced for wireless built-in antenna equipment. The antenna has beautiful appearance, small structure, high consistency and low cost.

2、产品图片（PRODUCT PICTURE）

3、产品规格图(PRODUCT SPECIFICATION CHART)



#### 4、驻波图（STATIONARY WAVE PATTERN）

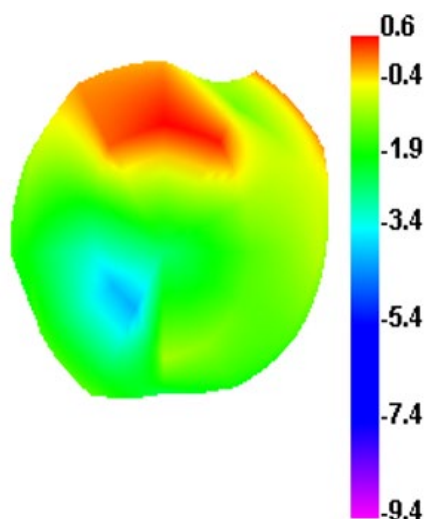


#### 5.增益效率值 Gain and Efficiency:

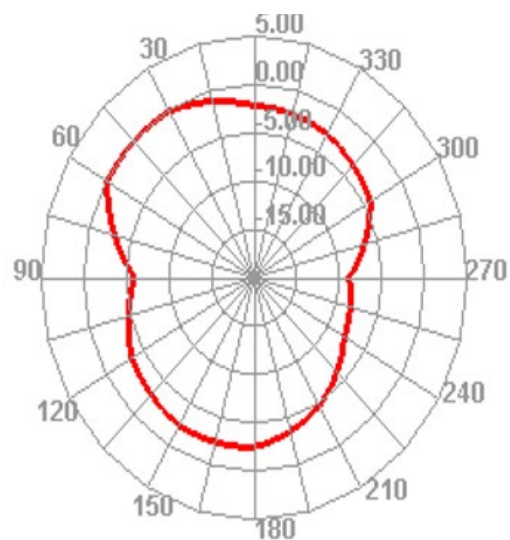
| Antenna Parameters:  |         |                |        |                |         |              |        |                |        |                 |         |                 |        |                 |         |              |      |       |
|----------------------|---------|----------------|--------|----------------|---------|--------------|--------|----------------|--------|-----------------|---------|-----------------|--------|-----------------|---------|--------------|------|-------|
| Quantity             | Freq    | Value          | Freq   | Value          | Freq    | Value        | Freq   | Value          | Freq   | Value           | Freq    | Value           | Freq   | Value           | Freq    | Value        | Freq | Value |
| Max U                | 5.15GHz | 0.0013185 W/ur | 5.2GHz | 0.0013417 W/ur | 5.25GHz | 0.00133 W/ur | 5.3GHz | 0.0012894 W/ur | 5.7GHz | 0.00074224 W/ur | 5.75GHz | 0.00063289 W/ur | 5.8GHz | 0.00064894 W/ur | 5.85GHz | 0.00060998 W |      |       |
| Peak Directivity     |         | 1.9641         |        | 1.9956         |         | 2.0265       |        | 2.0566         |        | 2.2576          |         | 2.2762          |        | 2.2929          |         | 2.3082       |      |       |
| Peak Gain            |         | 1.6944         |        | 1.7261         |         | 1.7571       |        | 1.7873         |        | 1.9841          |         | 2.0016          |        | 2.0171          |         | 2.0311       |      |       |
| Peak Realized Gain   |         | 1.657          |        | 1.686          |         | 1.6714       |        | 1.6203         |        | 0.93275         |         | 0.87073         |        | 0.8195          |         | 0.76654      |      |       |
| Radiated Power       |         | 0.0084363 W    |        | 0.0084488 W    |         | 0.0082477 W  |        | 0.0078783 W    |        | 0.0041317 W     |         | 0.0038254 W     |        | 0.0035566 W     |         | 0.003321 W   |      |       |
| Accepted Power       |         | 0.0097732 W    |        | 0.0097677 W    |         | 0.0095119 W  |        | 0.0090695 W    |        | 0.0047012 W     |         | 0.0043501 W     |        | 0.0040428 W     |         | 0.003741 W   |      |       |
| Incident Power       |         | 0.01 W         |        | 0.01 W         |         | 0.01 W       |        | 0.01 W         |        | 0.01 W          |         | 0.01 W          |        | 0.01 W          |         | 0.01 W       |      |       |
| Radiation Efficiency |         | 0.86268        |        | 0.86496        |         | 0.86709      |        | 0.86904        |        | 0.87885         |         | 0.87937         |        | 0.87973         |         | 0.87995      |      |       |
| Front to Back Ratio  |         | N/A            |        | N/A            |         | N/A          |        | N/A            |        | N/A             |         | N/A             |        | N/A             |         | N/A          |      |       |

## 6.场型图 Field Pattern:

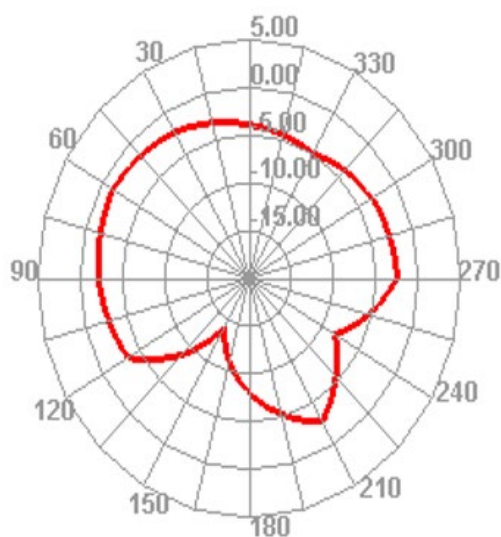
F=5250MHz



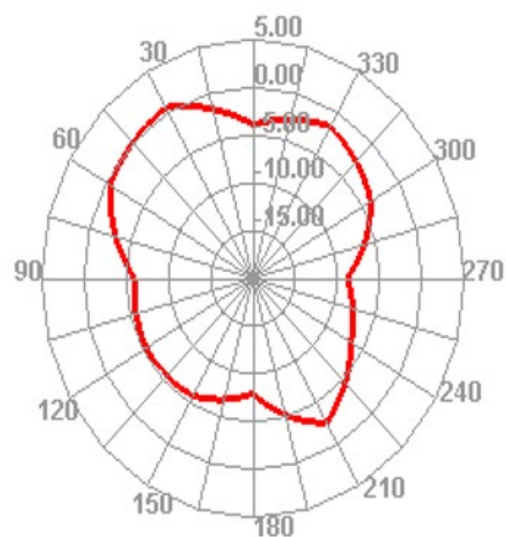
3D



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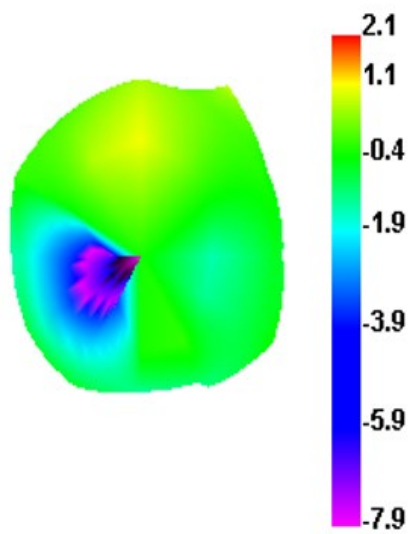


E1

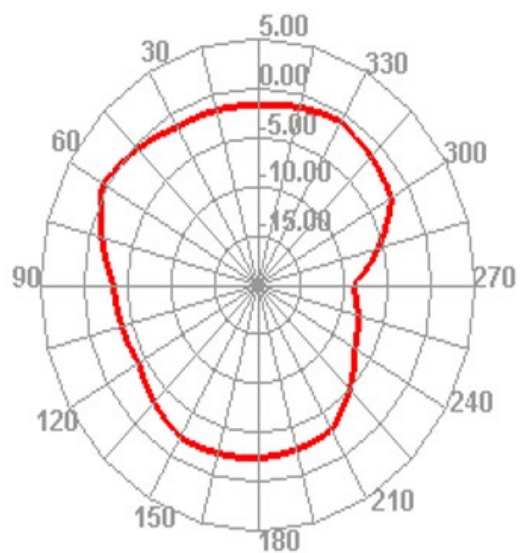


E2

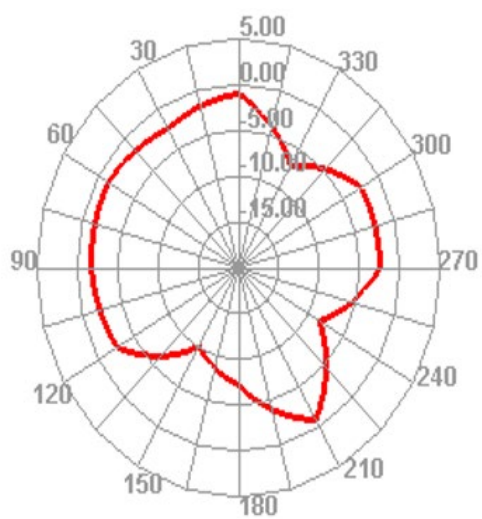
F=5800MHZ



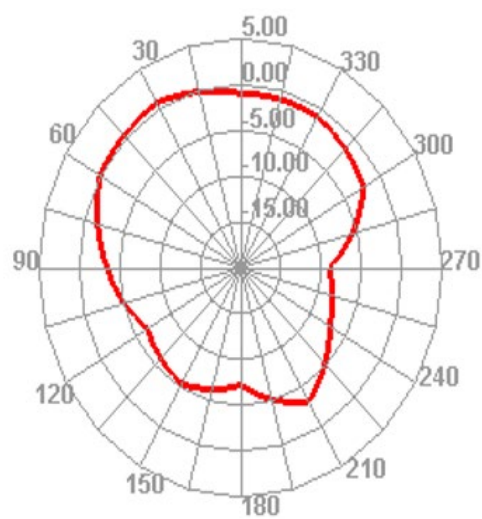
3D



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E1



E2