

产品规格书

PRODUCT SPECIFICATION

Customer: Shenzhen Xianzhi IOT Technology Co., Ltd.

Customer's part number: ANT000087

Product description: 5G Frequency Antenna

Manufacturer: Shenzhen RedbirdTek Technology Co., Ltd.

Manufacturer Address: 206, 2nd Floor, Gushu Haibin Technology Building, Baoan District, Shenzhen

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 |
| 天线类型 Antenna Type | PCB |
| 连接器型号 Connect Type | NC |

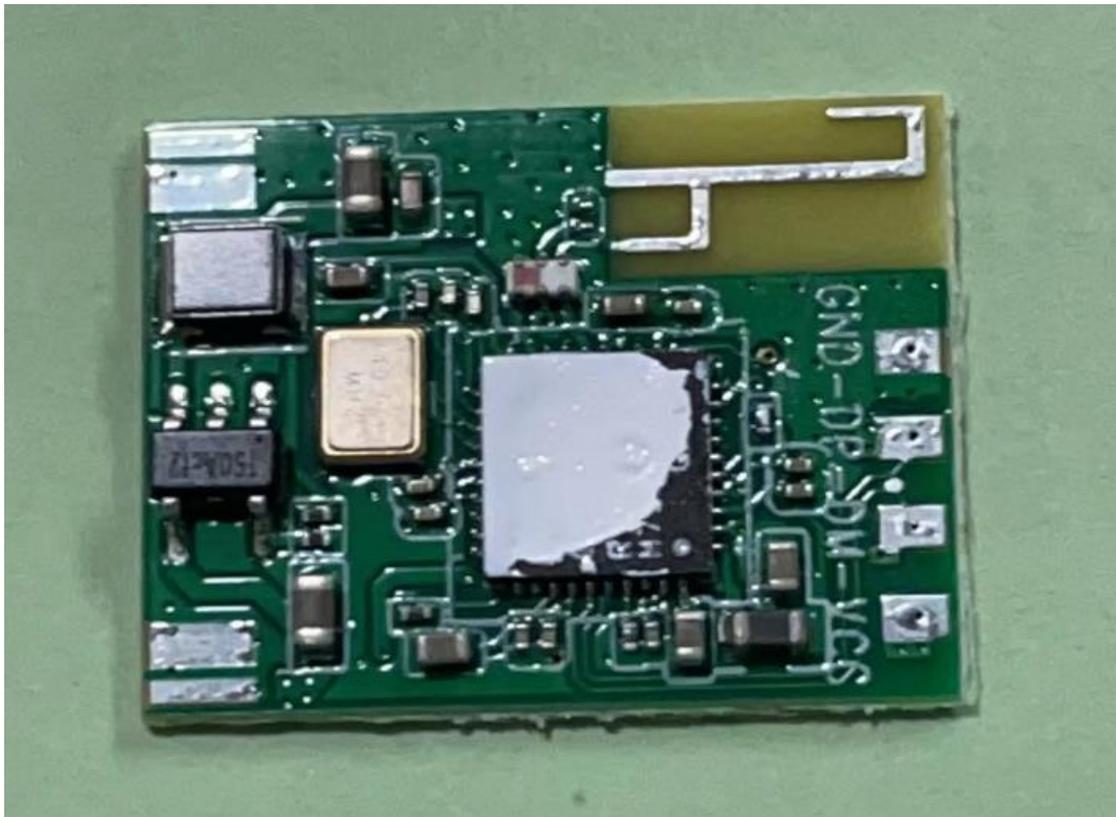
| | |
|-------------------|--------|
| 外壳颜色 Radome Color | Silver |
| 重量 Weight (g) | 0.02 |

产品简介 Product introduction:

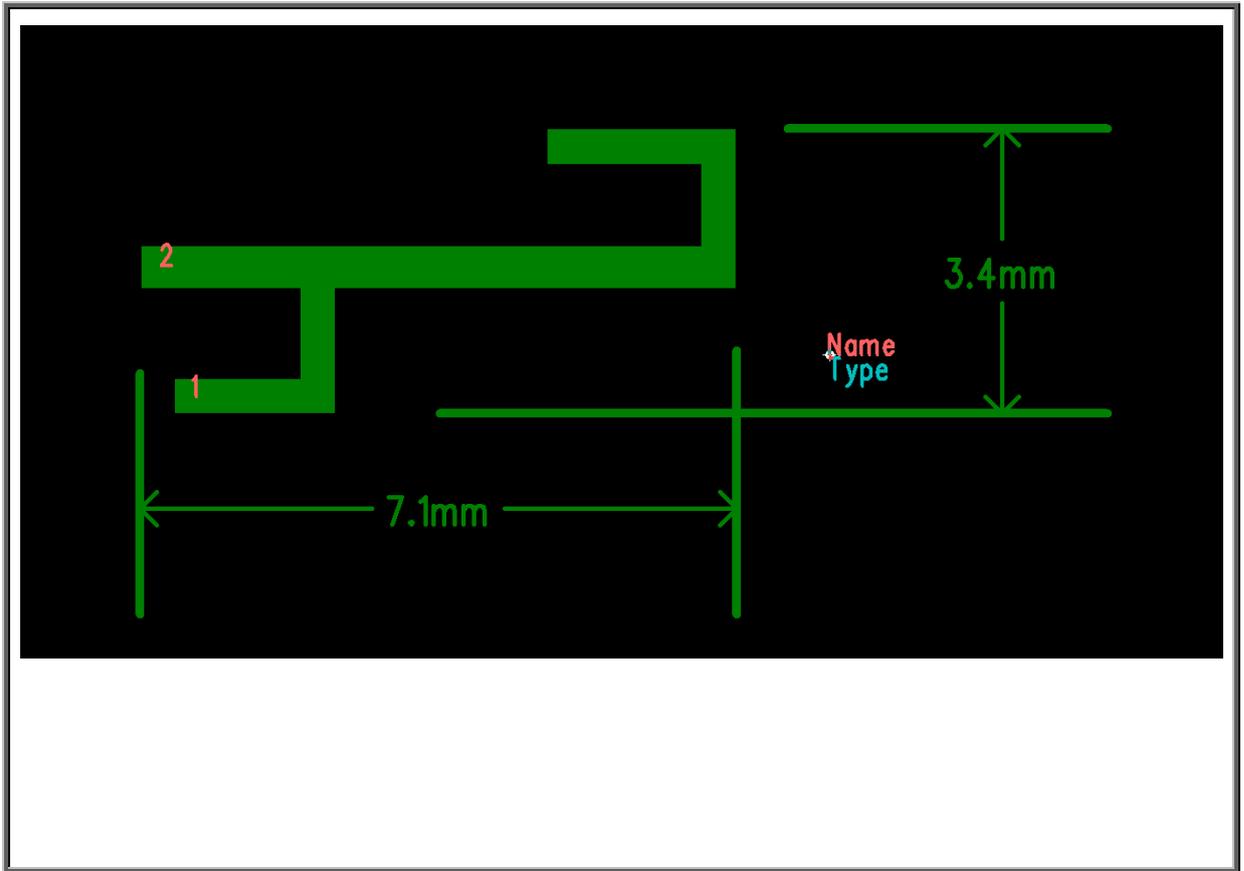
该天线是专为无线内置天线设备设计生产的，天线具有外形美观，结构小巧，一致性高，成本低廉。

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.

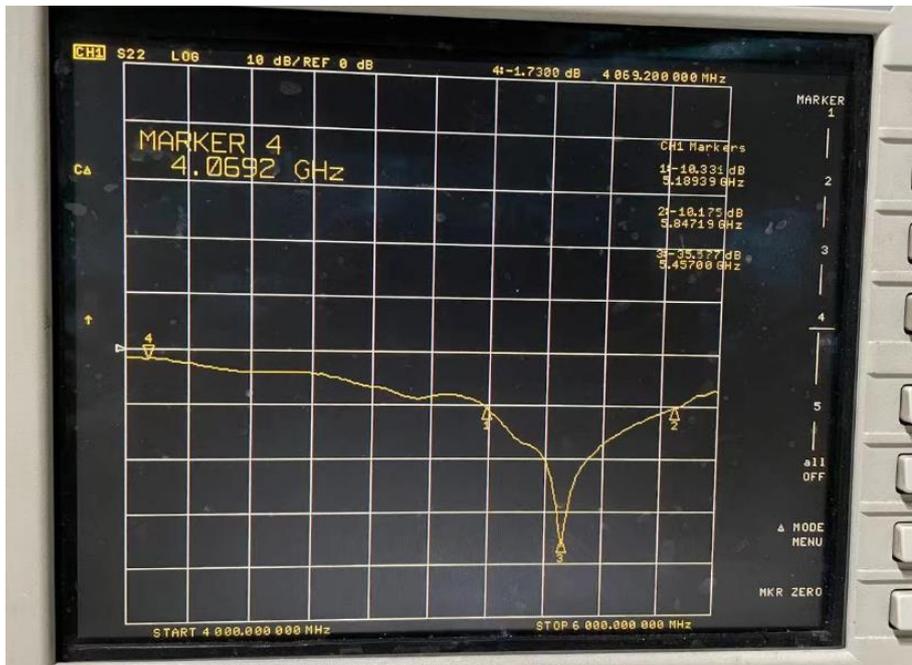
2、产品图片 (PRODUCT PICTURE)



3、产品规格图(PRODUCT SPECIFICATION CHART)



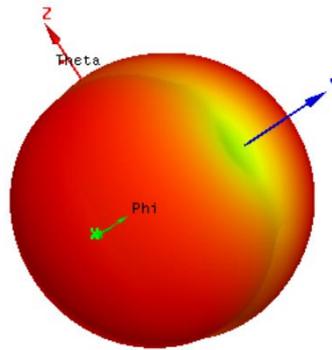
4、驻波图 (STATIONARY WAVE PATTERN)



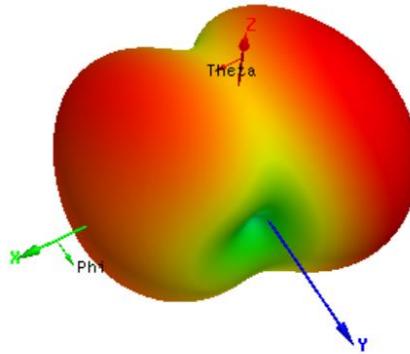
5.增益效率值 Gain and Efficiency:

| Antenna Parameters: | | | | | | | | | | | | | | | | |
|----------------------|---------|----------------|--------|----------------|---------|--------------|--------|----------------|--------|-----------------|---------|-----------------|--------|-----------------|---------|--------------|
| Quantity | Freq | Value | Freq | Value | Freq | Value | Freq | Value | Freq | Value | Freq | Value | Freq | Value | Freq | Value |
| Max U | 5.15GHz | 0.0013195 w/ir | 5.2GHz | 0.0013417 w/ir | 5.25GHz | 0.00133 w/ir | 5.3GHz | 0.0012894 w/ir | 5.7GHz | 0.00074224 w/ir | 5.75GHz | 0.00063289 w/ir | 5.8GHz | 0.00064894 w/ir | 5.85GHz | 0.00060986 w |
| Peak Directivity | | 1.941 | | 1.956 | | 2.026 | | 2.056 | | 2.2576 | | 2.2762 | | 2.2329 | | 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 | | 0.92275 | | 0.87073 | | 0.8155 | | 0.76654 |
| Radiated Power | | 0.0094363 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 | | 0.0093655 w | | 0.0047012 w | | 0.0043501 w | | 0.0040428 w | | 0.0037741 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 | | 0.96268 | | 0.96496 | | 0.96709 | | 0.96904 | | 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:



5.25G



5.8G