

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./銳博泰科技有限公司

Manufacturer 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)	5150-5850
频带宽度 Bandwidth (MHz)	5G: 700
输入阻抗 Input Impendence (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

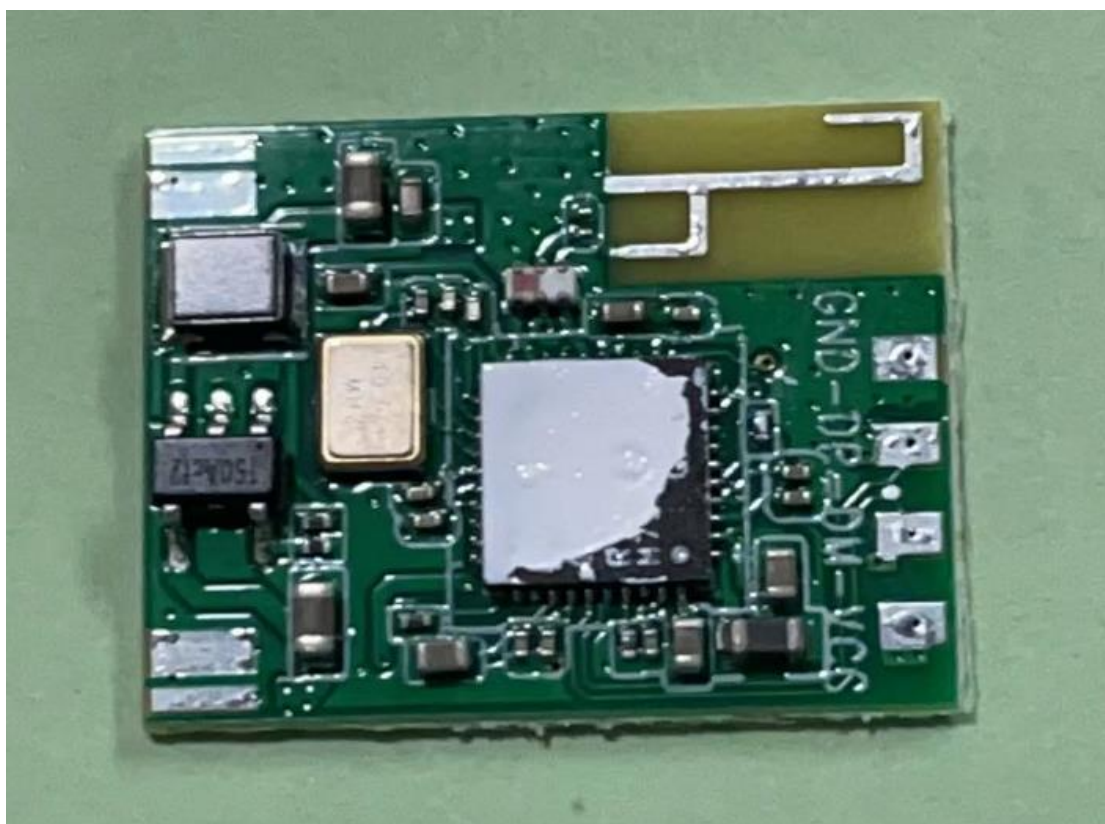
外壳颜色 Radome Color	Silver
重量 Weight (g)	0.02

产品简介 Product introduction:

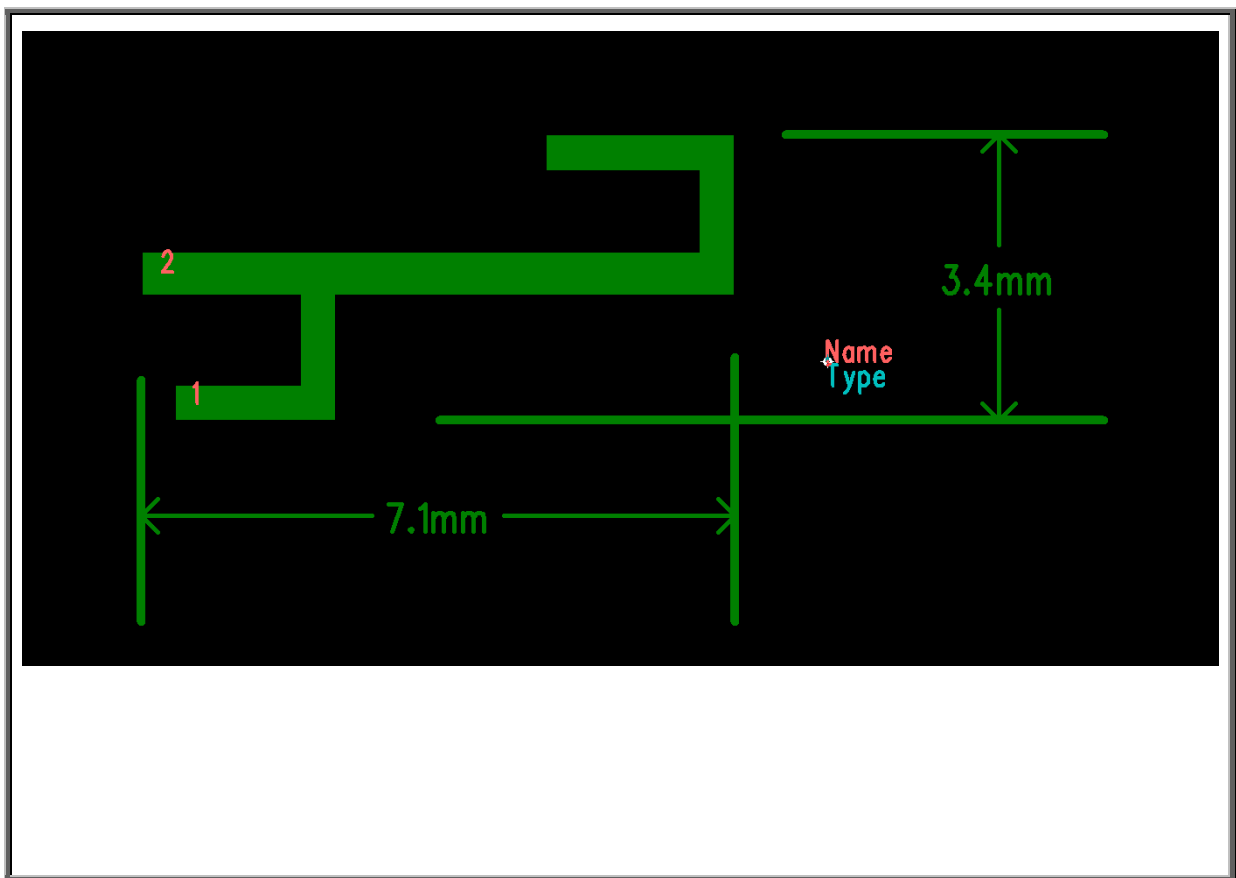
该天线是专为无线内置天线设备设计生产的，天线具有外形美观，结构小巧，一致性高，成本低廉。

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.

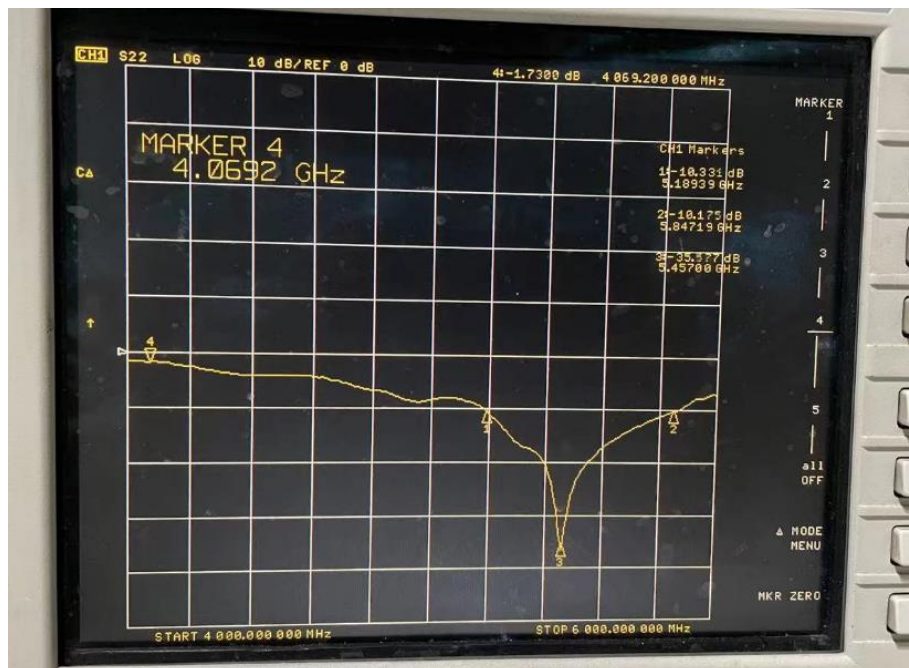
2、产品图片（PRODUCT PICTURE）



3、产品规格图(PRODUCT SPECIFICATION CHART)



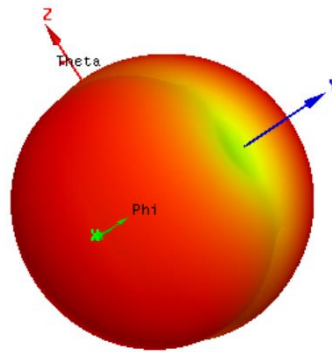
4、驻波图 (STATIONARY WAVE PATTERN)



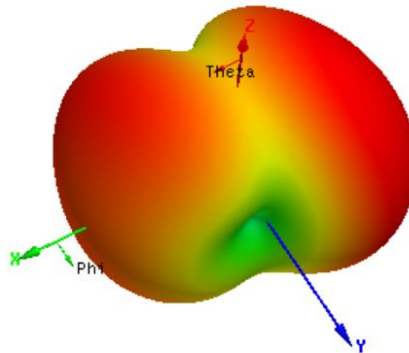
5.增益效率值 Gain and Efficiency:

Antenna Parameters:																
Quantity	Freq	Value	Freq	Value	Freq	Value	Freq	Value	Freq	Value	Freq	Value	Freq	Value	Freq	Value
Min 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	0.00060988 w
Peak Directivity		1.9441		1.9956		2.0265		2.0986		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		0.0084363 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		0.0090655 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		0.86268		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:



5.25G



5.8G

Signature:

Rock Ruong

Date: 2025/08/06