

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.

Technical drawing of a stepped profile. The profile consists of a horizontal base, a vertical step up, a horizontal top section, and a vertical step down. Dimensions are indicated: a horizontal dimension of 7.1mm across the base, and a vertical dimension of 3.4mm for the height of the top section. The drawing includes a table with the following content:

Name	Type

CHA S22 L06 10 dB/REF 0 dB 41-1.7300 dB 4 059.200 000 MHz

MARKER 4
4.0592 GHz

CH1 Markers
1-10.331 dB
5.18939 GHz
2-10.175 dB
5.84719 GHz
3-35.177 dB
5.45700 GHz

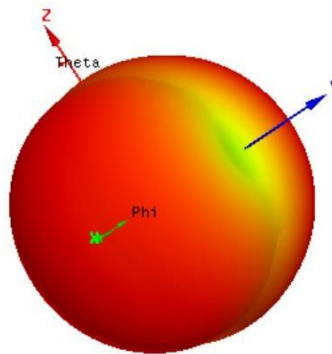
START 4 000.000 000 MHz STOP 6 000.000 000 MHz

MARKER 1
2
3
4
5
all OFF
MODE MENU
MKR ZERO

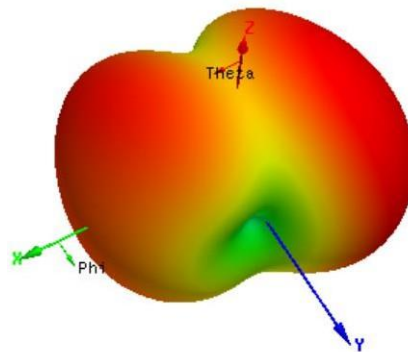
5.增益效率值 Gain and Efficiency:

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/Hz	5.2GHz	0.0013417 W/Hz	5.25GHz	0.00133 W/Hz	5.3GHz	0.0012994 W/Hz	5.7GHz	0.00074224 W/Hz	5.75GHz	0.00063289 W/Hz	5.8GHz	0.00064894 W/Hz	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		0.0039566 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		0.86304		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