

Dongguan Junhe Wireless Technology Co., Ltd  
Room 501, No. 33 Xiangguisi Road, Tangxia Town, Dongguan City,  
Guangdong Province

# 产品规格书

## Product specification

客 户:

**CUSTOMER:**

客户案号:

**CUSTOMER P/N:**

本厂编号:

**OUR MODEL NO:**

品名 / 规格:

**Integrated Antenna**

**SPECIFICATIONS:**

样品数:

**Q' TY:**

日 期:

**2023-09-08**

**DATE:**

工程 Engineering	品保 Quality	核准 Approved	签名 (盖章) Signature (seal)

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## 1. Technical Specification 技术规格

<b>A. Electrical Characteristics</b>	
<b>Working Frequency Range</b>	<b>5700~5900MHz</b>
<b>S.W.R.</b>	<b>5700~5900MHz:&lt;3.0</b>
<b>Antenna Gain(avg.)</b>	<b>5700~5900MHz: 5.2dBi±0.5dBi</b>
<b>Impedance</b>	<b>50ohm</b>
<b>B. Material</b>	
brass	
<b>C. Environmental</b>	
<b>Operation Temperature</b>	<b>-45℃~+85℃</b>
<b>Storage Temperature</b>	<b>-45℃~+85℃</b>

## 2. Curing antenna S11 Testing Result 无源测试

The S11 parameter was performed using a Agilent 8753D Network Analyzer and BEST'S test fixture that was using customer-providing device.

**VSWR (Voltage standing wave ratio)**

The Voltage Standing Wave Ratio (VSWR) is an indication of how good the impedance match is. VSWR is often abbreviated as SWR. If the transmission line and the antenna are not matched, the antenna will not accept all the power from the transmission line. The part it does not accept is reflected back and forth between the transmitter and the antenna. This sets up a fixed wave pattern along the line which we can measure and which is called the voltage standing wave ration(VSWR).The VSWR (ratio of maximum voltage to the minimum voltage along the line)expresses the degree of match between the transmission line and the antenna. When the VSWR is 1 to 1(1:1) the match is perfect and all the energy is transferred to the antenna prior to be radiated. When the VSWR is 1.5:1, 96% of the power reaches the antenna. By definition VSWR can never be less than 1.VSWR and reflected power are different ways of measuring and expressing the same thing. A high VSWR is indication that the signal is reflected prior to being radiated by the antenna.

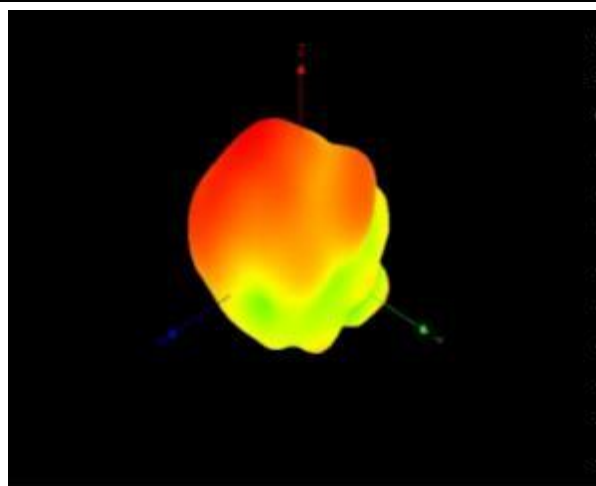
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### 驻波 VSWR

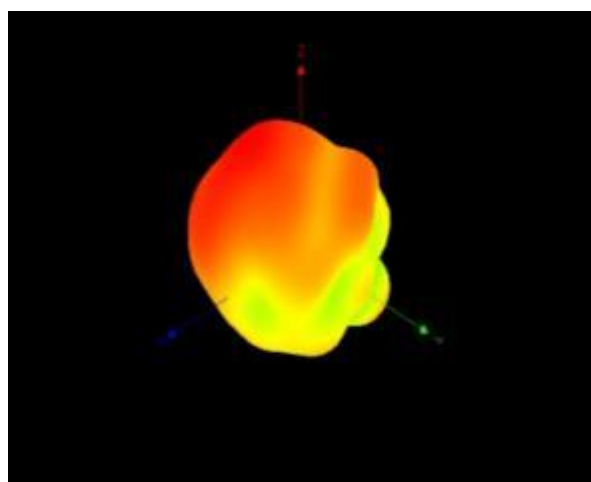
Marker	5700MHz	5800MHz	5900MHz
S.W.R	<3.0		

### 3. Test 3D report 测试 3D 报告

Frequency 频率: 5700MHZ Gain 增益: 5.17dbi

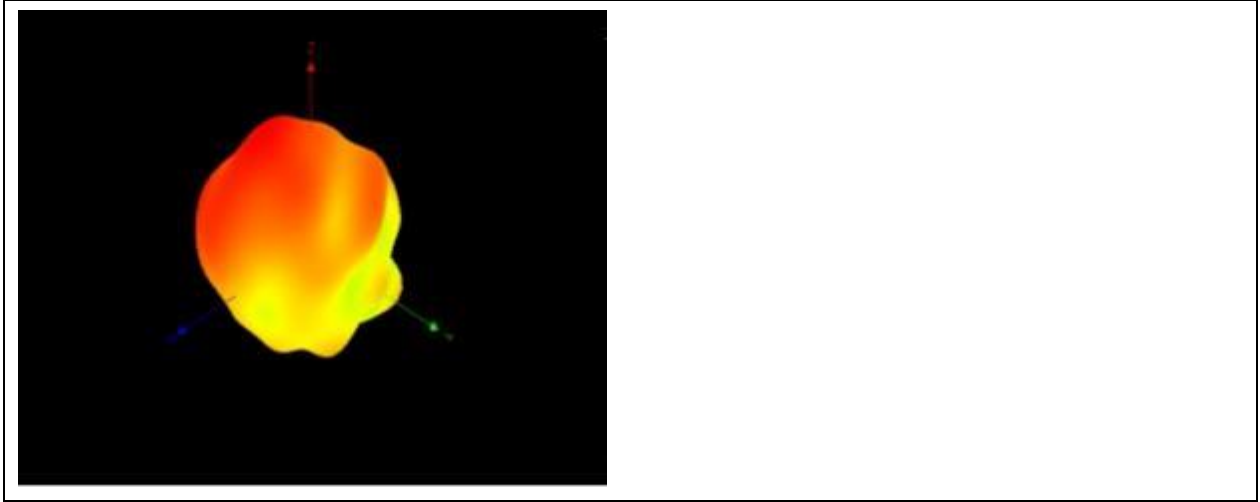


Frequency 频率: 5800MHZ Gain 增益: 5.35dbi



Frequency 频率: 5900MHZ Gain 增益: 5.42dbi

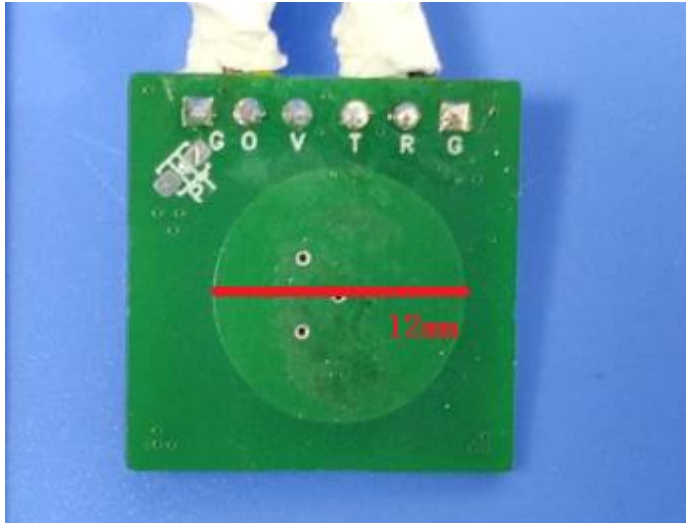
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Frequency (MHz)	Efficiency (%)	Peak Gain / dB
5700	62.6	5.17
5800	62.2	5.35
5900	62.3	5.42

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#### 4. Product appearance diagram 产品外观图



**Product physical 5.8G integrated antenna length 12mm.**  
产品实物 5.8G 集成天线长 12mm。