

产品规格承认书

Specification For Approval

日期: 2022 / 09 / 20

Date

编号:

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Revision

承认厂商: 浙江迅实科技有限公司

Customer

制造厂商: 东莞市方格电子有限公司

Manufacturer

型号品名: 2.4G/5G/IPEX1 接口

Part Number

Description

料号:

Customer

100600956

Number

厂商审核:

Approved By

Product Number:NB098-2400-300PEX

Product Name: 内置全向天线

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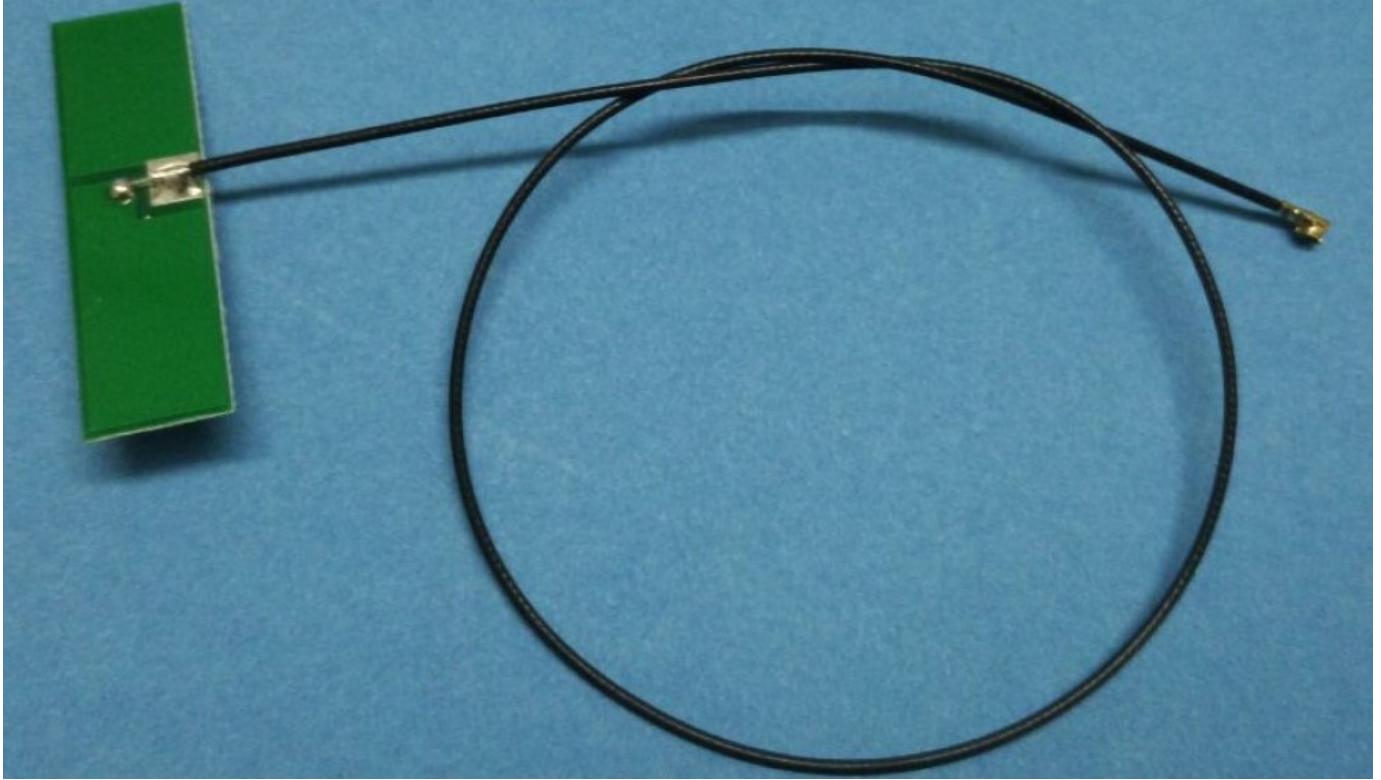
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Product Number:NB098-2400-300PEX

Product Name: 内置全向天线

1. Specification



A. Electrical Characteristics	
Frequency 天线频率	2400-2500MHZ; 4900-5900MHz
S.W.R. 驻波比	< 1.8
Antenna Gain 天线增益	4.dBi ±0.7@ E-Plane // Peak Gain
Polarization 极化方式	Linear 线性极化
FPCB SIZE 天线尺寸	41.5*12±0.3mm
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator 材质	FR-4
Cable Type 线材类型	RG-1.13
Connector Type 天线接口	50 ohm / I-PEX MHF20278-111R-13
Cable length 天线长度	从板边算起线长 300mm ±3mm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C
Antenna Color Storage life	< 2 year

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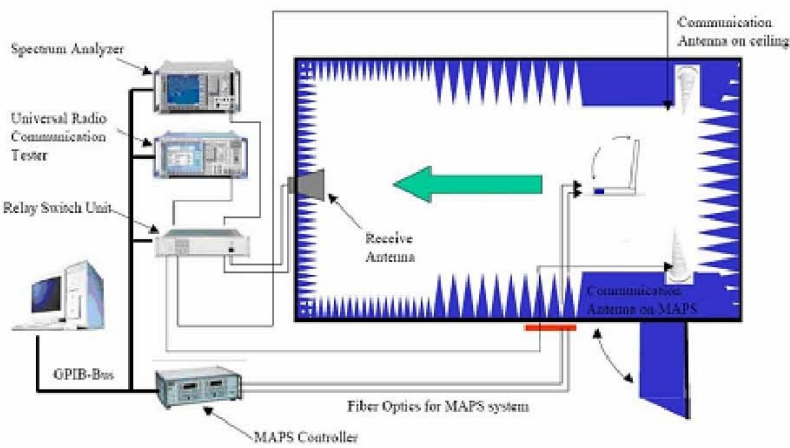
Product Name: 内置全向天线

Test Equipment & Conditions

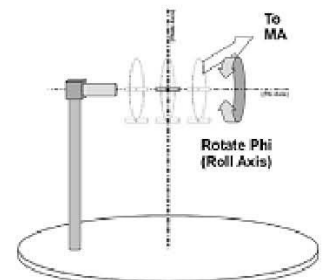
1. Network Analyzers :

Agilent 8753D 5071B

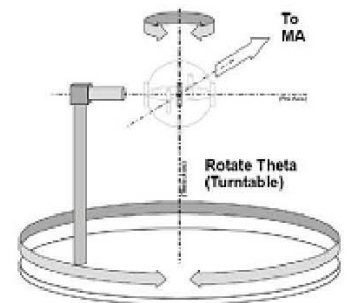
2. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

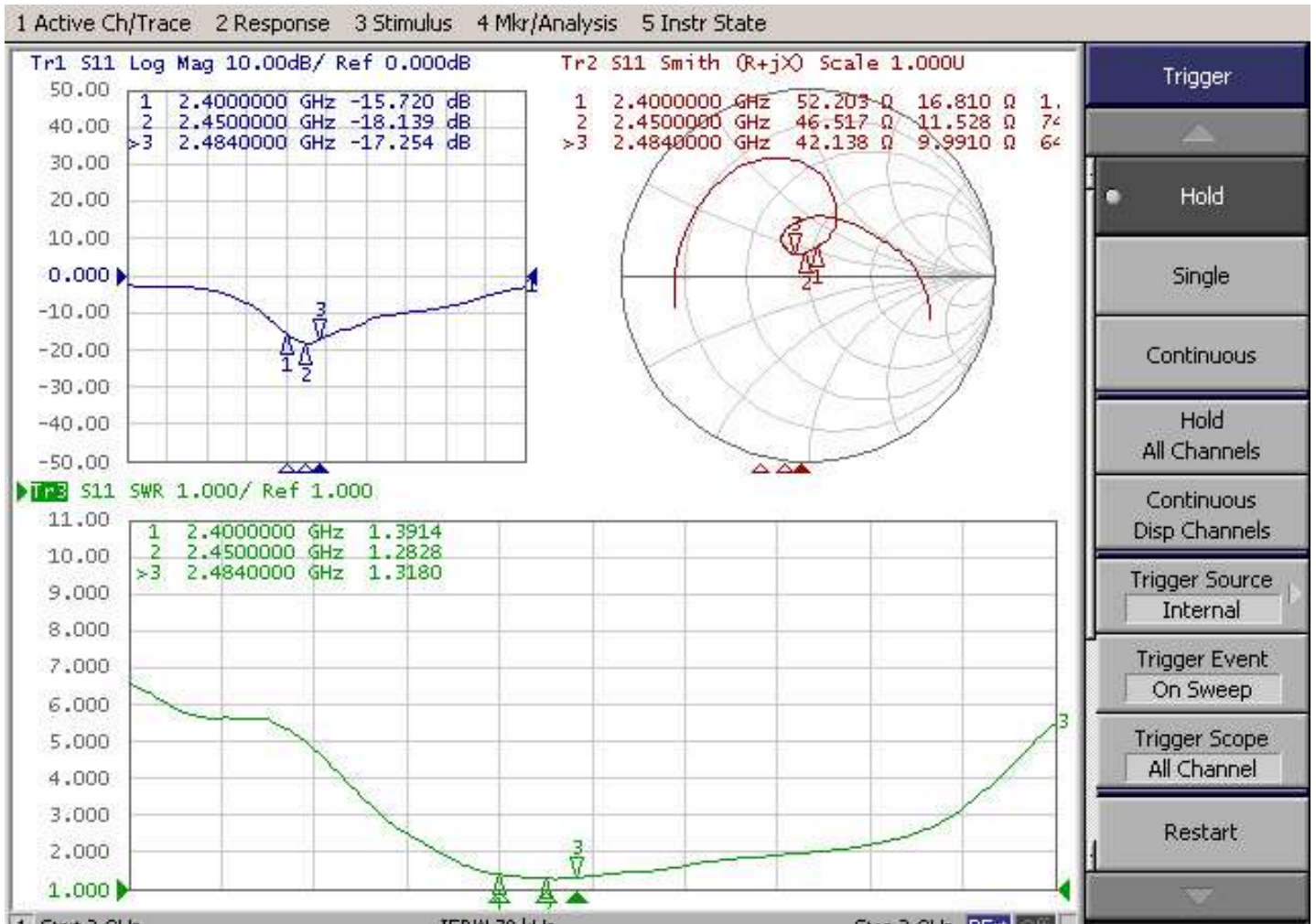


Theta axis test

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2. Antenna - S Parameter Test Data

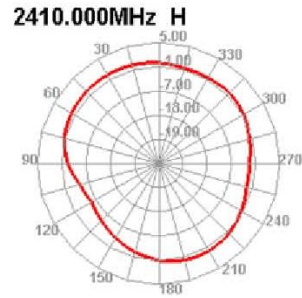
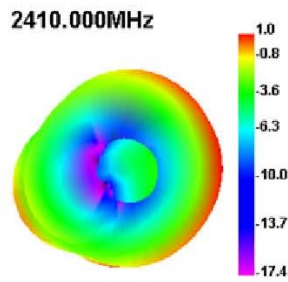


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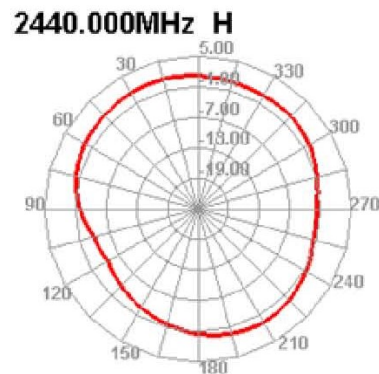
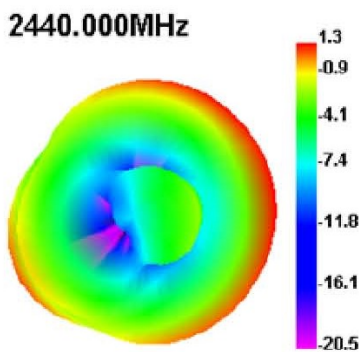
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3. Antenna - OTA Test Data

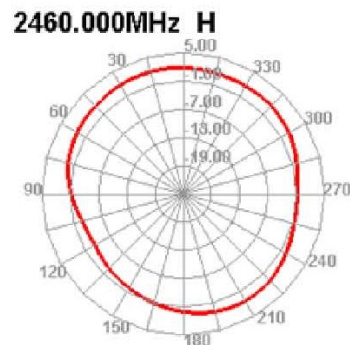
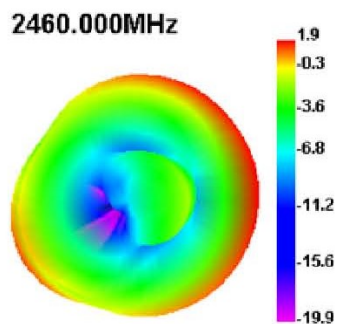
2.4g频段2410mhz3d方向苹果图



2440mhz频点苹果图



2460mhz频点苹果图



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2.4G

Total Efficiency/GAIN:

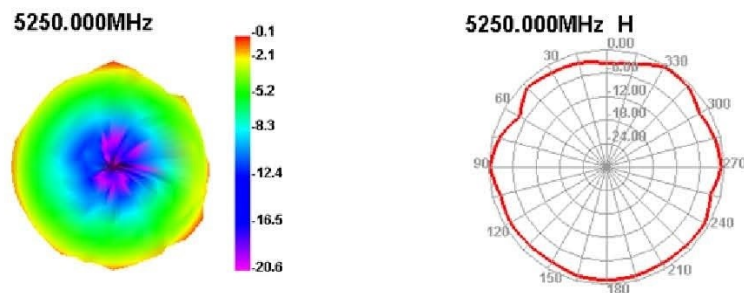
2.4G效率增益

Freq (MHz)	Effi (%)	Gain (dBi)
2390	61.72	3.77
2400	59.63	3.59
2410	51.62	3.02
2420	53.66	3.03
2430	58.27	3.2
2440	59.58	3.31
2450	64.77	3.67
2460	66.76	3.87
2470	71.63	4.21
2480	65.92	3.85
2490	65.33	3.8
2500	68.98	4.07

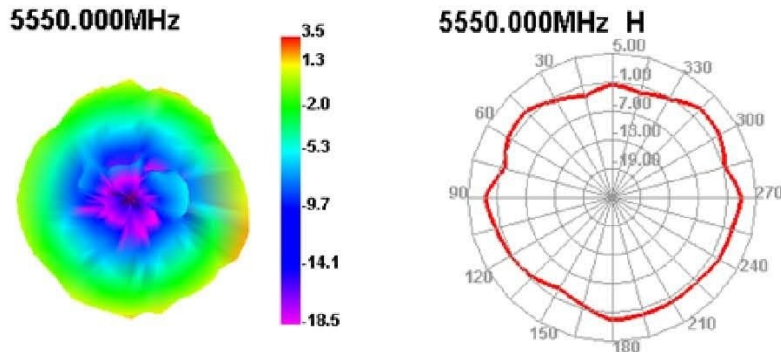
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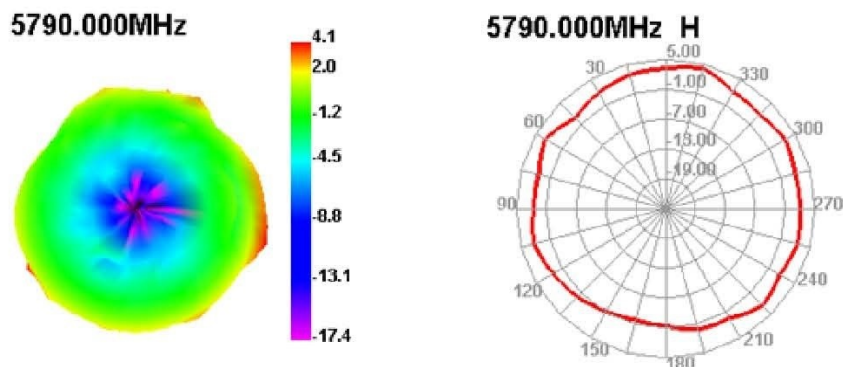
5.8g频段频点5250mhz方向3d苹果图



频点5500mhz3d苹果图



5790mhz方向苹果图



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5.8G

Total Efficiency/GAIN:

Freq (MHz)	Effi (%)	Gain (dBi)
5150	64.63	3.57
5170	60.09	3.37
5350	73.6	3.42
5370	74.18	3.86
5390	81.71	3.73
5410	76.29	3.83
5810	81.37	3.93
5830	81.64	3.95
5850	81.58	3.94