

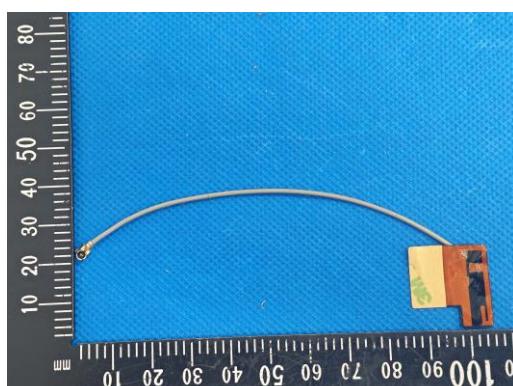
深圳泓德致新科技有限公司
Shenzhen Hongde Zhixin Technology Co., LTD
芯图电子
Xintu Electronics
WiFi 天线规格书
WiFi Antenna Specification sheet

Xintu Electronics		Project Name: XT70
Frequency band: WGB	Date	May 15, 2025 Version: R:A
Research and development	structure: Zhuge Chong	Approval: Zhang Lin
Radio Frequency:	Sun Jian	
Customer Audit:		Customer approval

HDZX-2707-WF-V03 WIFI 天线 黑色线长 L=130MM 1 代端子

**HDZX-2707-WF-V03 WIFI antenna black wire
length L=130MM, first-generation terminal**

Size:



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1. Project information and Electrical Specification

Those specifications were specially defined for WIFI/BT model, and all characteristics were measured under the model's handset testing jig .

1-1 Project picture



1-2 Frequency Band:

Frequency Band	2400-2500MHz 5000-5900MHz
Antenna Gain	3.4dbi
Debugging category	Coaxial +FPC welding
Wireless communication standard	802.11

1-3 Impedance matching

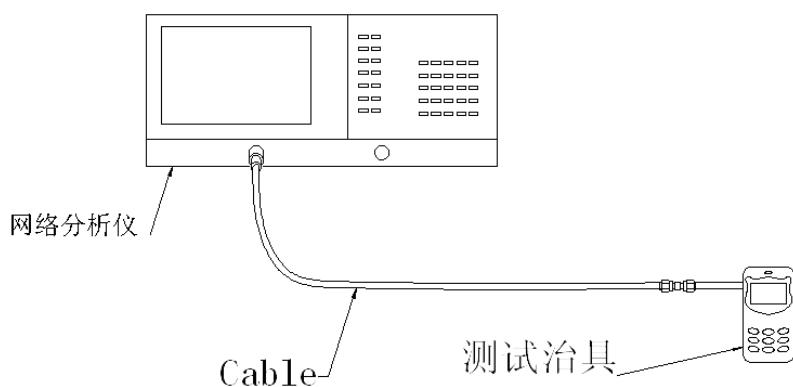
天线原匹配

2.VSWR

2-1 Measuring Method:

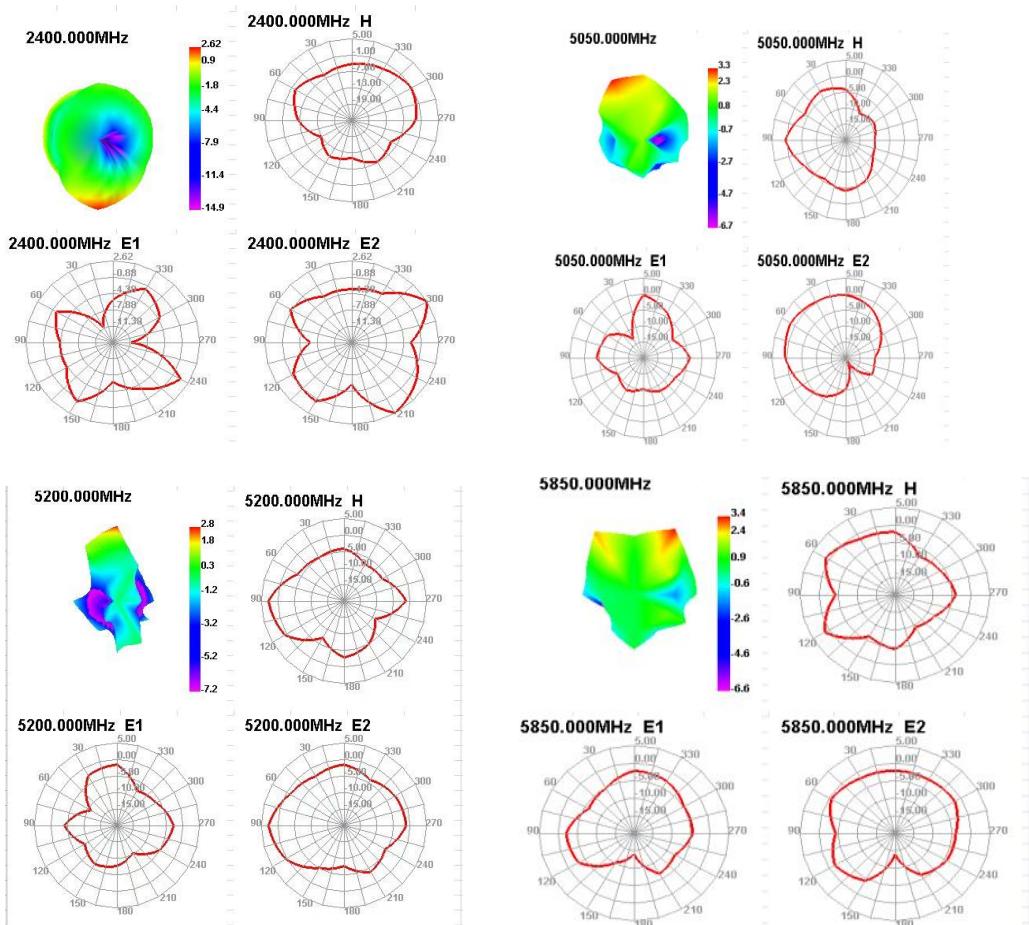
1. A 50Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,
2. Keeping this jig away from metal at least 20cm.

测试示意图如下：



2-2 efficiency and Gain

Frequency (MHZ)	2400	5050	5200	5850
效率 efficiency	27.97	30.43	31.40	34.5
增益 Gain (dbi)	2.62	3.3	2.8	3.4

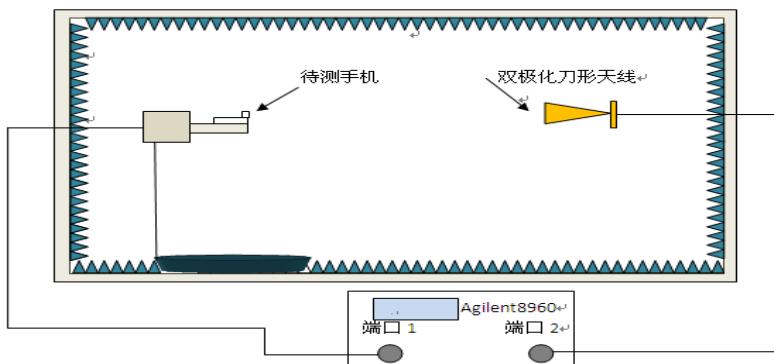


3.*measuring and test instruments:

4. Microwave anechoic chamber, Agilent network analyzer, Agilent spectrum analyzer, 8960 comprehensive tester, standard antenna

5.*test method:

The equipment is placed at the center of the turntable on the H plane and fixed, on the same horizontal line as the center of the horn antenna



6. The production index

天线量产时，以驻波比作为量产测试标准。根据项目本身的差异，给出如下标准：

When antennas are mass-produced, the standing wave ratio is used as the mass production test standard. Based on the differences of the projects themselves, the following standards are provided

频率	量产标准
WIFI /BT(2400-2500MHZ)	VSWR (量产产品) < VSWR(设计样品) + 0.5

