

# 钱海琳电子科技有限公司

Qian Hailin Electronic Technology

## 天线规格承认书

### Antenna Specification for Approval

Customer Name: Xinyu

Product Name: 2.4G Antenna Full length 40mm white

Antenna Type: Wire Antenna

Part NO.: 17-0.10-1.6

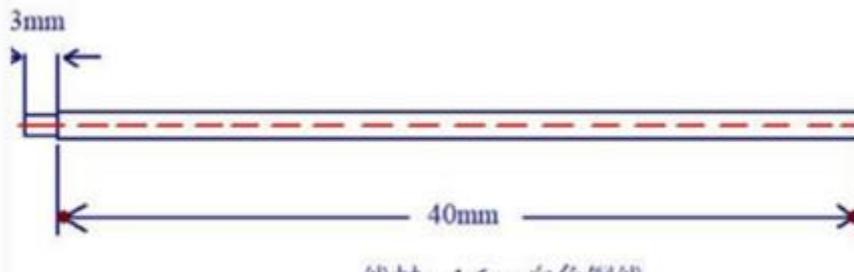
Write By: Wang

Issued Date: 2025.05.18

R&D Dept	Business Dept	Approved By

Qian Hailin Electronic Technology

R&D Dept	Engineer Dept	Approval



Note: The 2.4G antenna specification is a 17-core 0.10-core electronic wire

with an outer diameter of 1.6MM, white in color, 40MM in length, and the wire ends are stripped

Tin 3MM. Comply with environmental protection standards: EU EN71(19E), ROHS, PAHS, 6P~16P, European and American CPSIA HR4040.

## Product Specification

### A. Electrical Characteristics

**Frequency 2400MHz ~2500MHz**

**VSWR <3.0**

**Efficiency >30%**

**Impedance 50 Ohm**

**Polarization Line**

**Gain 0DBi**

### B. Material & Mechanical Characteristics

**Material of Radiator Cu**

**Cable Type 1.0 19P 白色**

**Connector Type : NO**

**Dimension**

### C. Environmental

**Operation Temperature - 30 °C ~ + 80 °C**

**Storage Temperature - 30 °C ~ + 85 °C**

## Test Equipment & Conditions

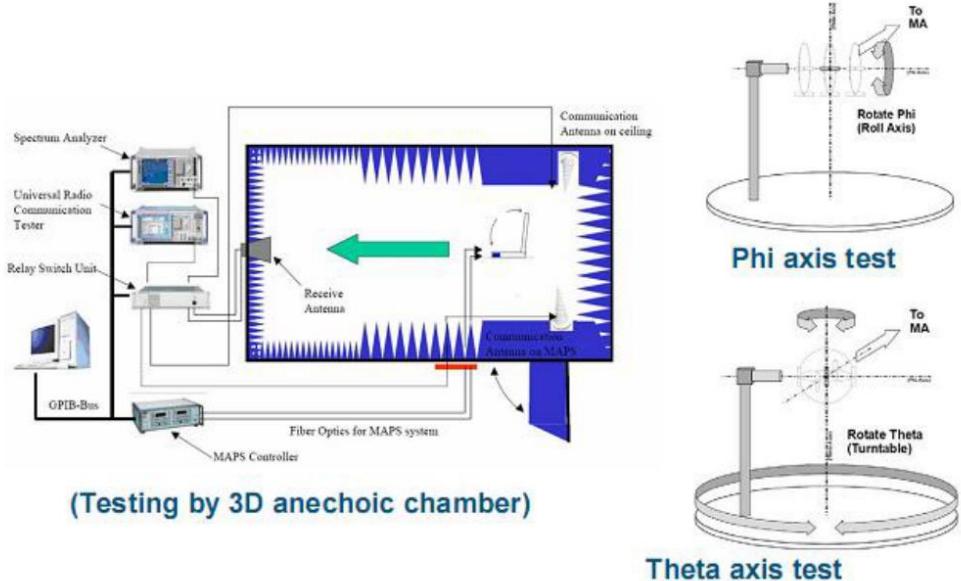
### 1. Network Analyzers :

Agilent 8753D 5071B

### 2. Communications Test Set:

Agilent E5515C

### 3. 3D Chamber Test System Efficiency & Gain



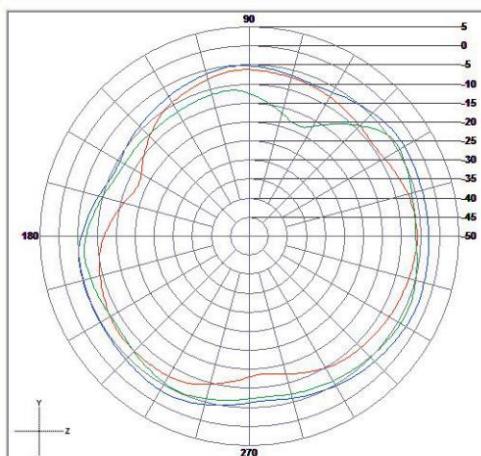
### Efficiency & Gain

2.40 -0.00

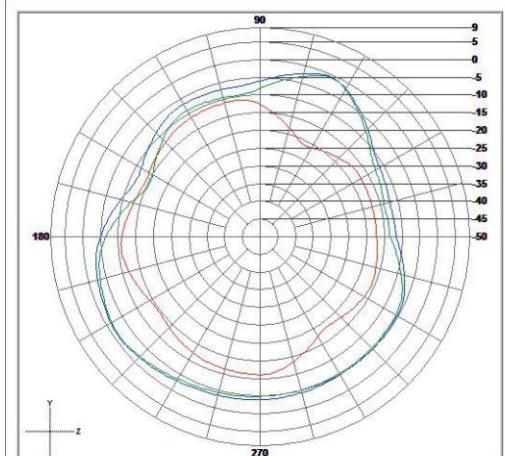
2.440 -0.11

2.48 -0.13

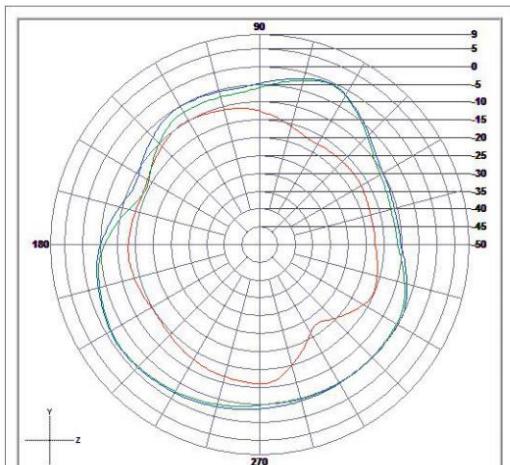
### Radiation Pattern:



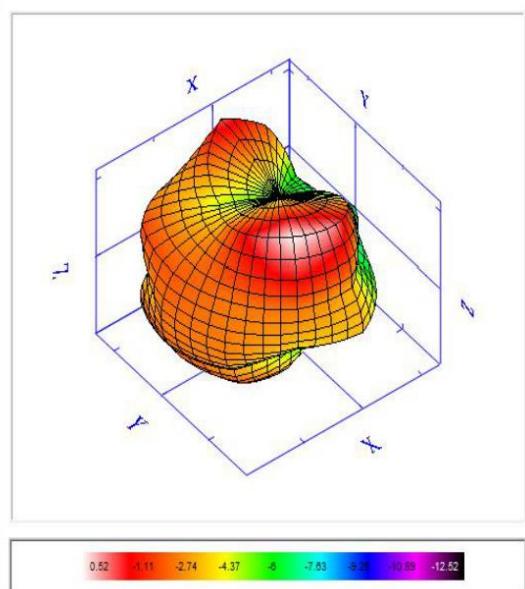
	Vertical	Horizontal	Total
Avg. Gain	-8.4	-6.99	-4.63
Peak Gain	-5.48	-3.77	-2.17



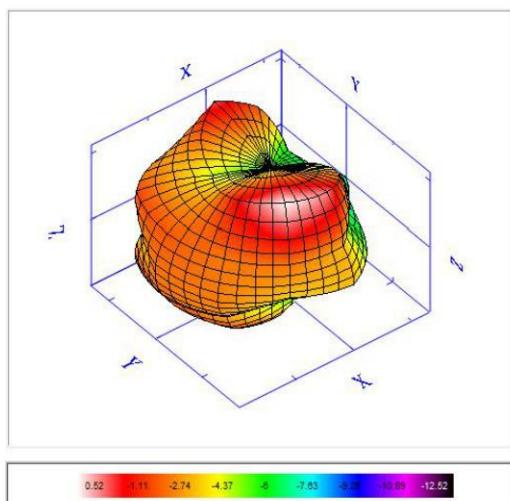
	Vertical	Horizontal	Total
Avg. Gain	-13.34	-5.06	-4.46
Peak Gain	-10.3	0.09	0.12



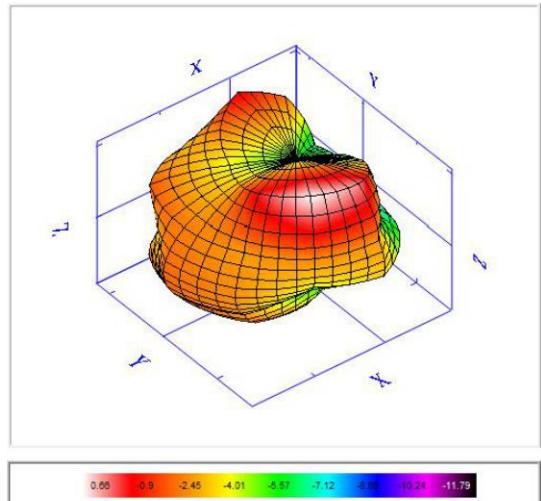
	Vertical	Horizontal	Total
Avg. Gain	-13.42	-4.6	-4.06
Peak Gain	-9.47	0.1	0.17



0.52 -1.11 -2.74 -4.37 -6 -7.83 -9.39 -10.89 -12.52



0.52 -1.11 -2.74 -4.37 -6 -7.83 -9.39 -10.89 -12.52



0.68 -1.9 -2.45 -4.01 -5.57 -7.12 -8.59 -10.21 -11.79