

# Dongzhen Electronics Co., Ltd

Shangpin Science and Technology Building, Xinjin Street, Longhu District, Shantou City

## Antenna Specification for Approval

Customer Name: \_\_\_\_\_

Product Name: \_\_\_\_\_ 2.4G antenna

Product Name: \_\_\_\_\_

Part NO. : \_\_\_\_\_ 19PIN\*0.12\*1.4PVC

Write By: \_\_\_\_\_ Mr. zhou

Issued Date: \_\_\_\_\_ 2019-3-8

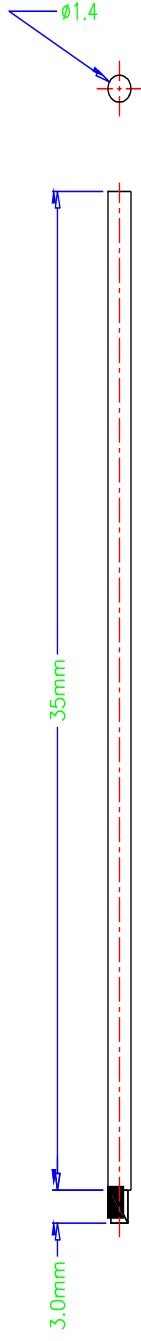
### customer :

| R&D Dept | Business Dept | Approved By |
|----------|---------------|-------------|
|          |               |             |

### supplier

| R&D Dept | Engineer Dept | Approval |
|----------|---------------|----------|
|          |               |          |

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requirement:

1, Those marked with tolerance are important dimensions, and those without tolerance shall be  $\pm 0.15$ .

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|            |                 |          |                   |         |           |           |     |              |    |
|------------|-----------------|----------|-------------------|---------|-----------|-----------|-----|--------------|----|
| PART TITLE | 2 4GANT         | MATERIAL | 19PIN×0.12×1.4PVC | UNIT IN | mm        | SCALE     | 5:1 | VER.         | 01 |
| PART NO.   | 19P×0.12×1.4PVC | DRW ING  | Mr. zhou          | DATE    | 2019/3/09 | CHECK ING |     | SUPPLIER C/M | 喉棒 |

# Product Specification

## A. Electrical Characteristics

**Frequency** 2400MHz ~2500MHz

**VSWR** <3.0

**Efficiency** >20%

**Impedance** 50 Ohm

**Gain** 0.59DBi

**Polarization mode:** linear polarization

## B. Material & Mechanical Characteristics

**Material of Radiator** Cu

**Cable Type** 1.4 white

**Connector Type** : NO

**Dimension**

## C. Environmental

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

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

# Test Equipment & Conditions

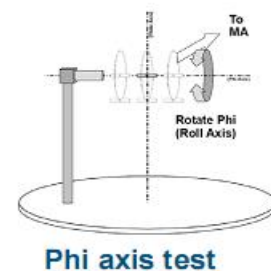
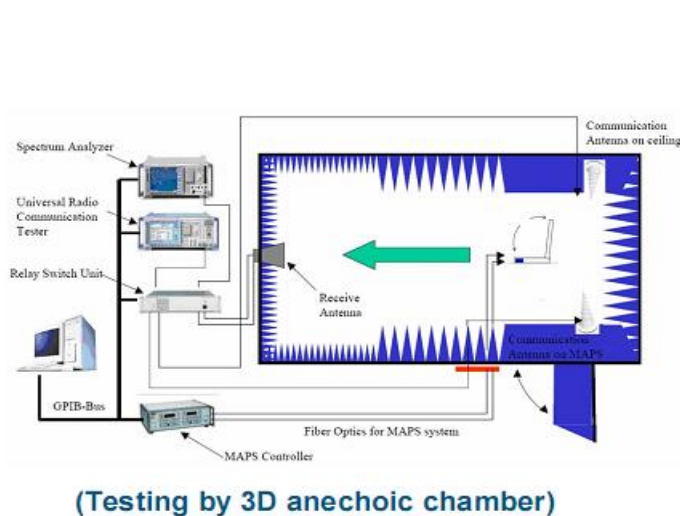
## 1. Network Analyzers :

Agilent 8753D 5071B

## 2. Communications Test Set:

Agilent E5515C

## 3. 3D Chamber Test System

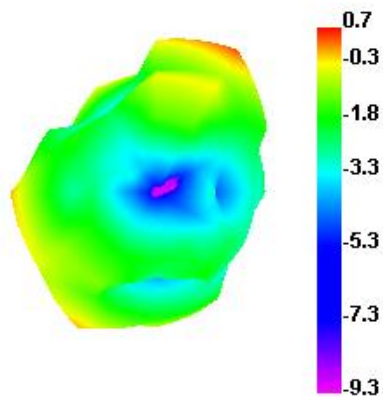


## Effiency &Gain

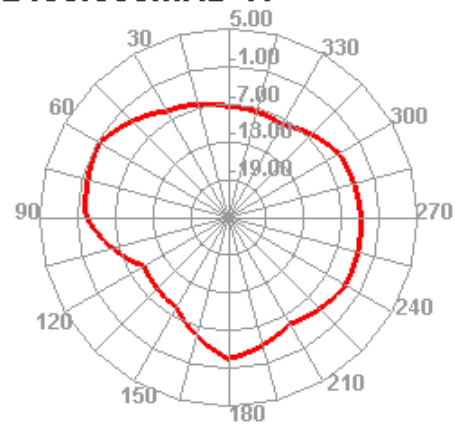
| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 23.66       | 0.47          |
| 2410          | 23.19       | 0.38          |
| 2420          | 23.03       | 0.49          |
| 2430          | 22.41       | 0.42          |
| 2440          | 21.67       | 0.45          |
| 2450          | 20.24       | 0.52          |
| 2460          | 20.61       | 0.51          |
| 2470          | 21.41       | 0.59          |
| 2480          | 23.89       | 0.56          |
| 2490          | 26.46       | 0.53          |
| 2500          | 25.73       | 0.46          |

# Radiation Pattern

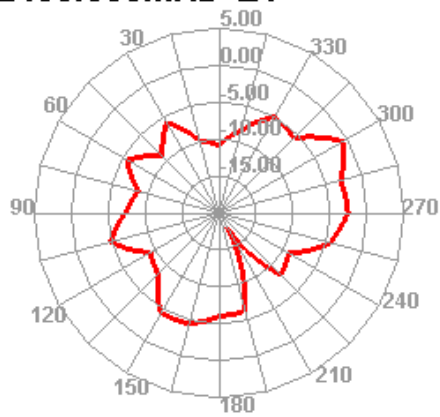
2400.000MHz



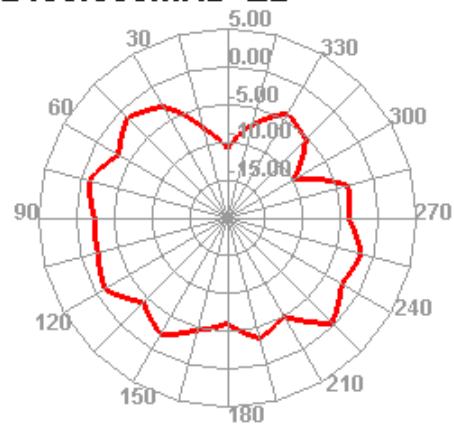
2400.000MHz H



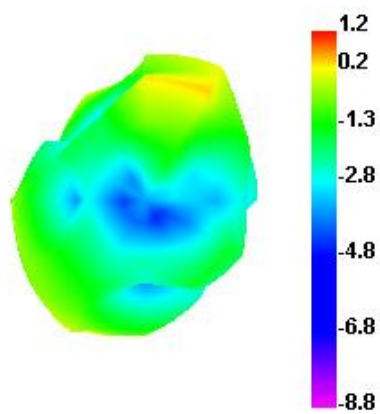
2400.000MHz E1



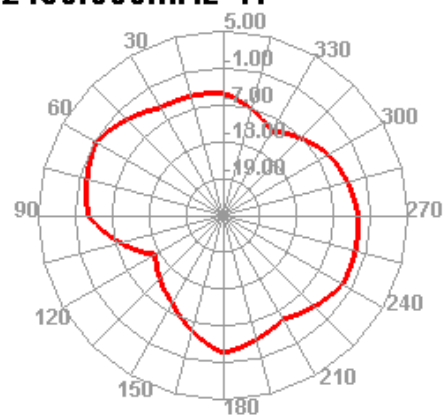
2400.000MHz E2



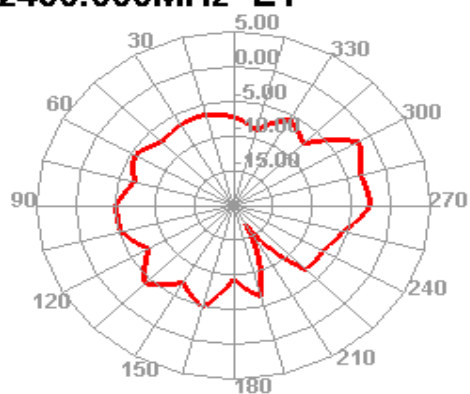
2450.000MHz



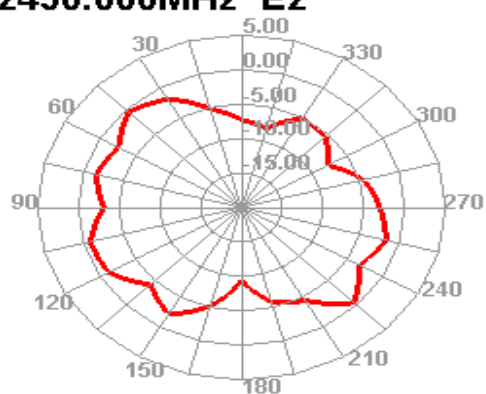
2450.000MHz H



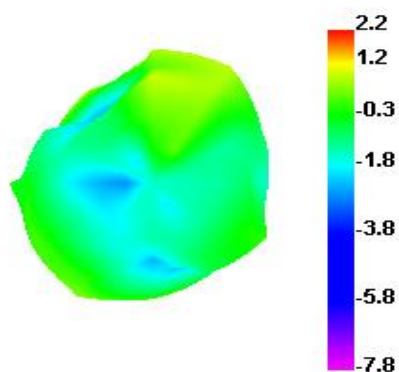
**2450.000MHz E1**



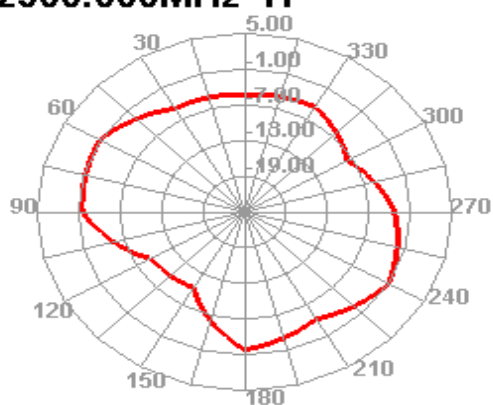
**2450.000MHz E2**



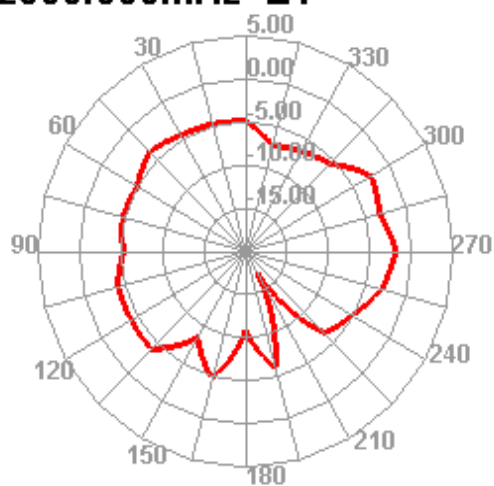
**2500.000MHz**



**2500.000MHz H**



**2500.000MHz E1**



**2500.000MHz E2**

