

Dongzhen Electronics Co., Ltd

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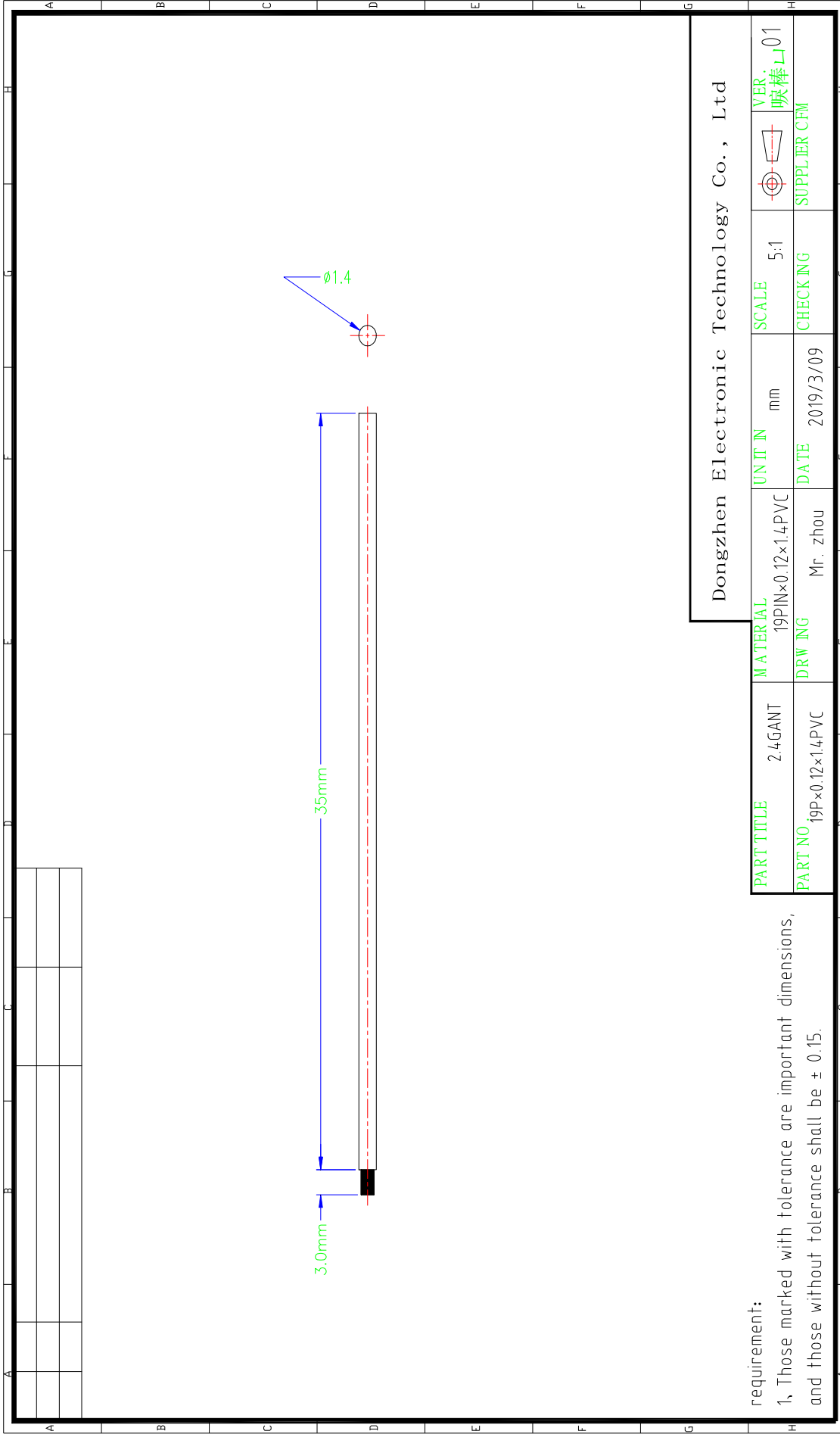
Antenna Specification for Approval

Product Name: 2.4G antenna

Part NO. : 19PIN*0.12*1.4PVC

Write By: Mr. zhou

Issued Date: 2019-3-8



requirement:

- 1, Those marked with tolerance are important dimensions, and those without tolerance shall be ± 0.15 .

Product Specification

A. Electrical Characteristics Frequency

2400MHz ~2500MHz VSWR <3.0

Efficiency >20%

Impedance 50 Ohm

Gain 0.59 dBi

Antenna type: Integral Antenna

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

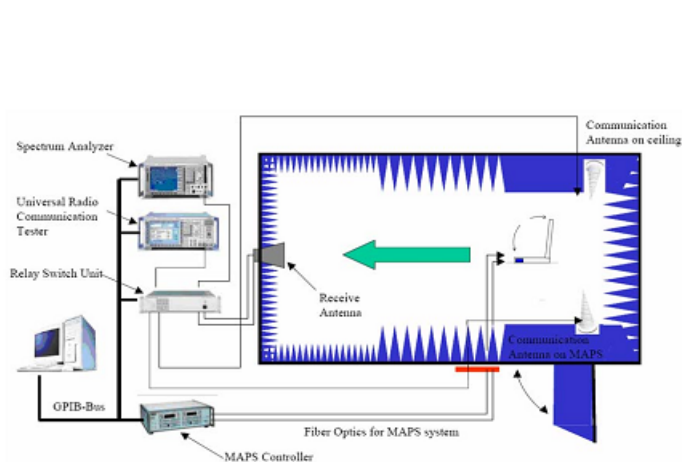
1. Network Analyzers:

Agilent 8753D 5071B

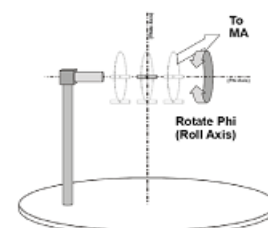
2. Communications Test Set:

Agilent E5515C

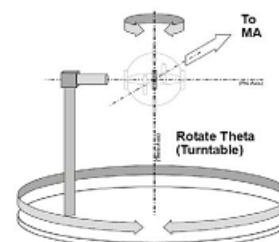
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



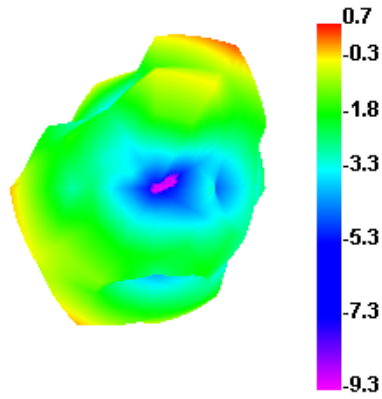
Theta axis test

Efficiency & Gain

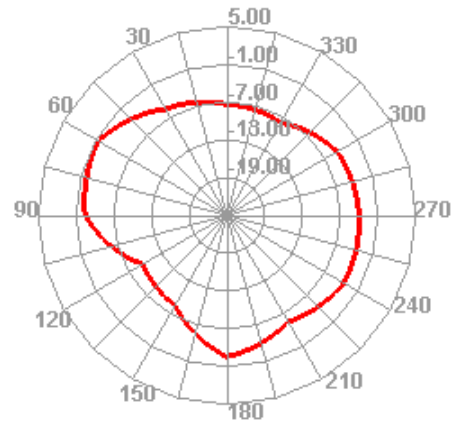
| Freq (MHz) | Effi (%) | Gain (dBi) |
|---------------|-------------|---------------|
| 2400 | 23.66 | 0.47 |
| 2410 | 23.19 | 0.38 |
| 2420 | 23.03 | 0.49 |
| 2430 | 22.41 | 0.42 |
| 2440 | 21.67 | 0.45 |
| 2450 | 20.24 | 0.52 |
| 2460 | 20.61 | 0.51 |
| 2470 | 21.41 | 0.59 |
| 2480 | 23.89 | 0.56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

Radiation Pattern

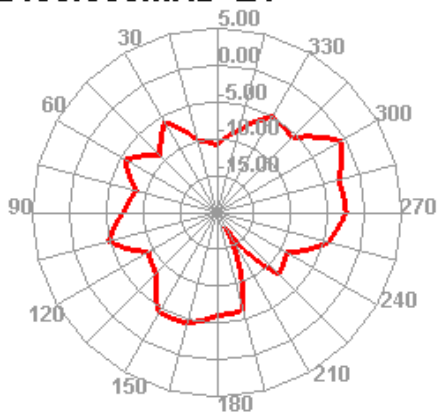
2400.000MHz



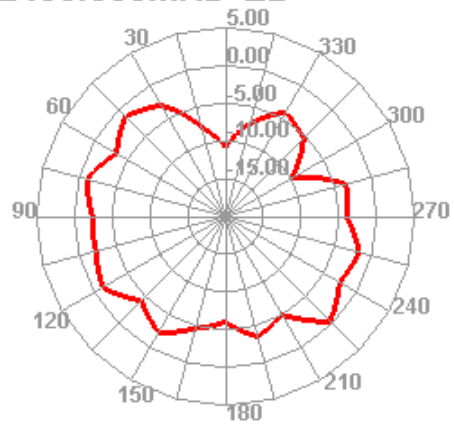
2400.000MHz H



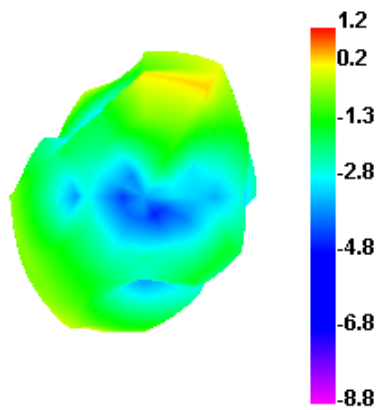
2400.000MHz E1



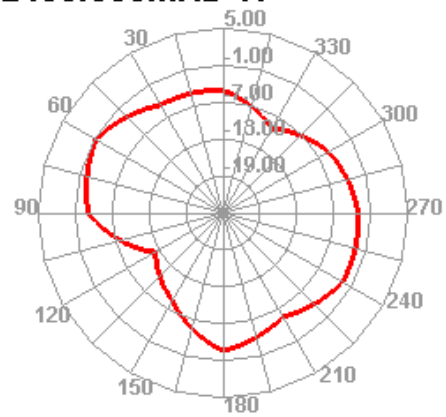
2400.000MHz E2



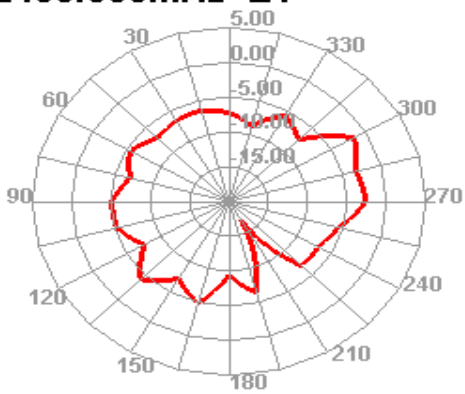
2450.000MHz



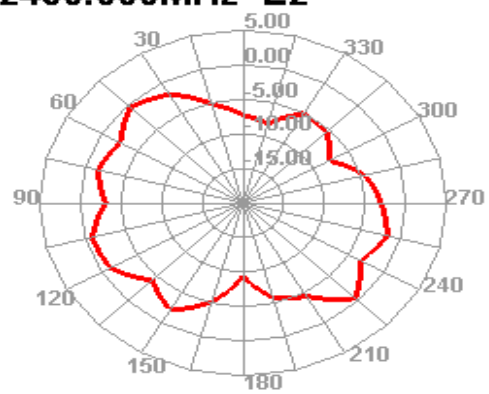
2450.000MHz H



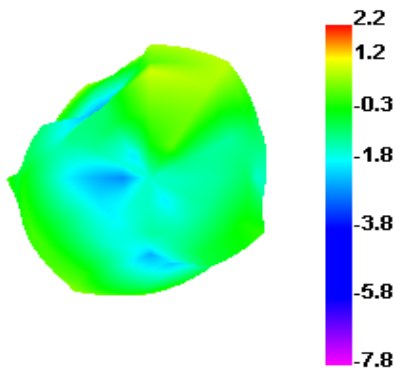
2450.000MHz E1



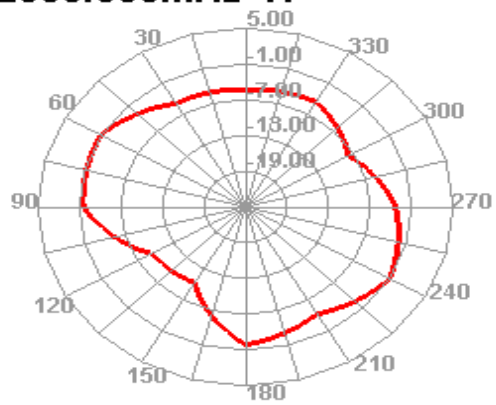
2450.000MHz E2



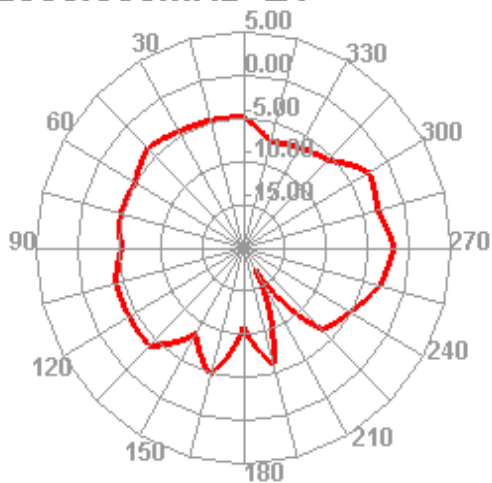
2500.000MHz



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

