

Dongzhen Electronics Co., Ltd

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

Antenna Specification for Approval

Product Name: 2.4G antenna

Part NO. : 19PIN*0.12*1.4PVC

Write By: Mr. zhou

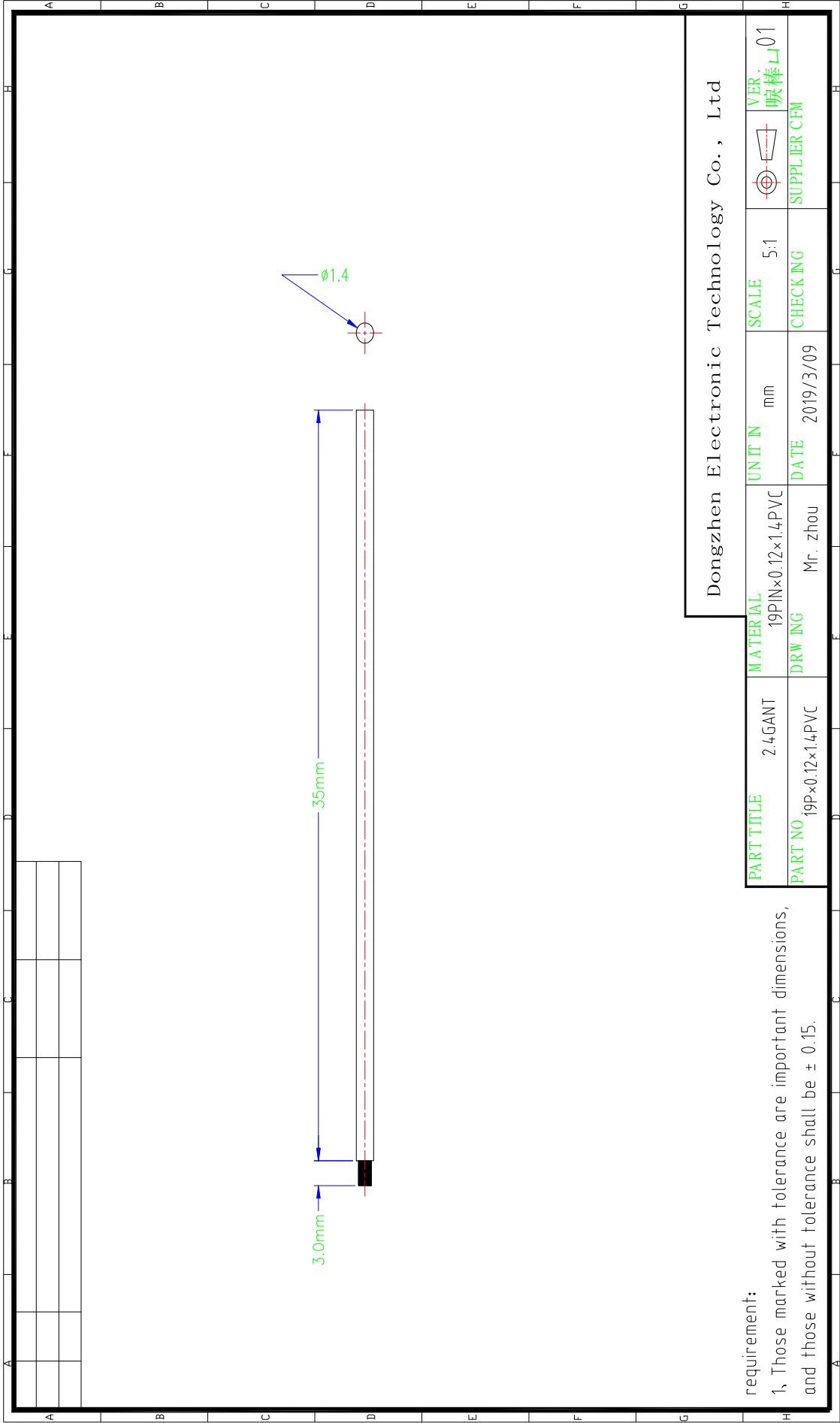
Issued Date: 2019-3-8

customer :

R&D Dept	Business Dept	Approved By

supplier

R&D Dept	Engineer Dept	Approval



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 0.2dBi

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

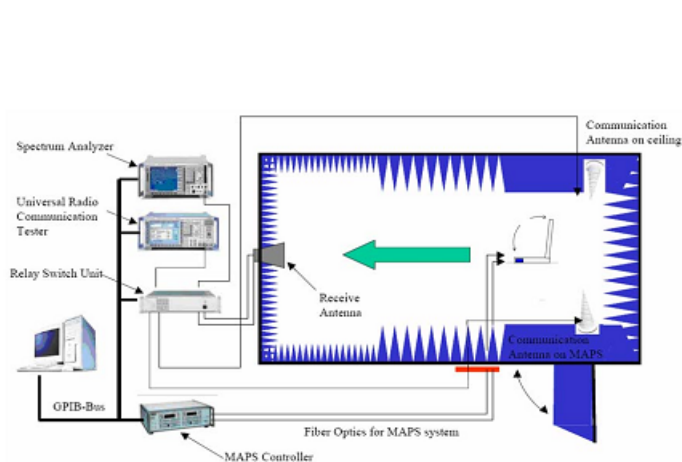
1. Network Analyzers:

Agilent 8753D 5071B

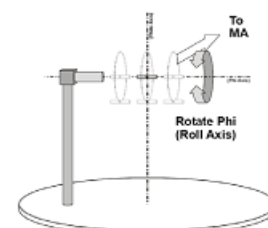
2. Communications Test Set:

Agilent E5515C

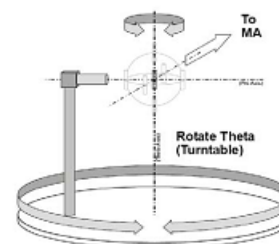
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test



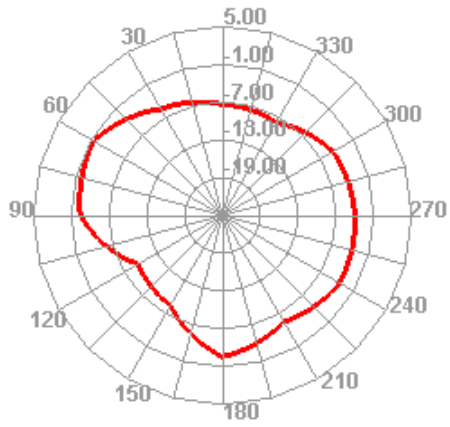
Theta axis test

Efficiency & Gain

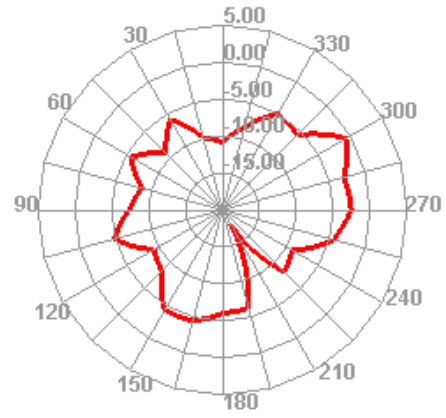
Freq (MHz)	Effi (%)	Gain (dBi)
2400	23.66	0
2410	23.19	-0.58
2420	23.03	-0.59
2430	22.41	-0.42
2440	21.67	-0.45
2450	20.24	0.1
2460	20.61	-0.51
2470	21.41	-0.59
2480	23.89	-0.56
2490	26.46	-0.53
2500	25.73	0.2

Radiation Pattern

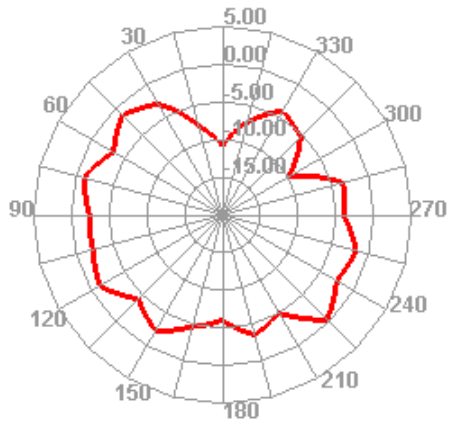
2400.000MHz H



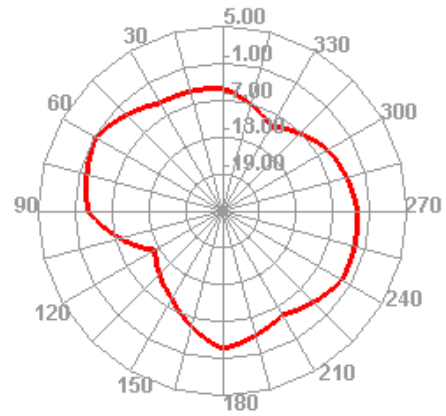
2400.000MHz E1



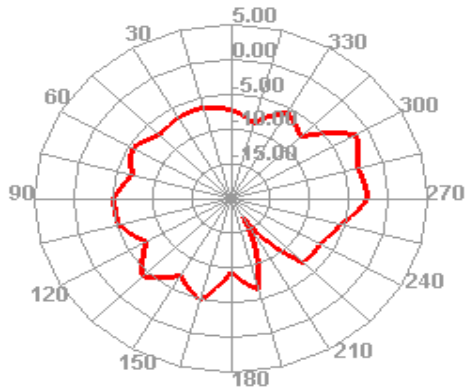
2400.000MHz E2



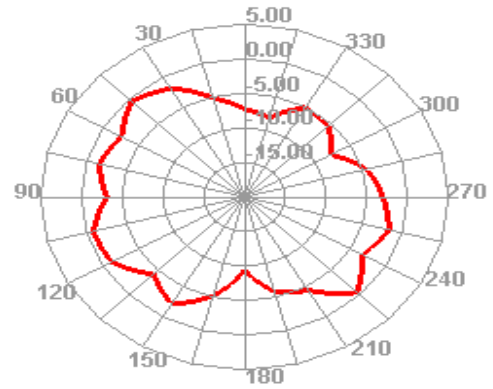
2450.000MHz H



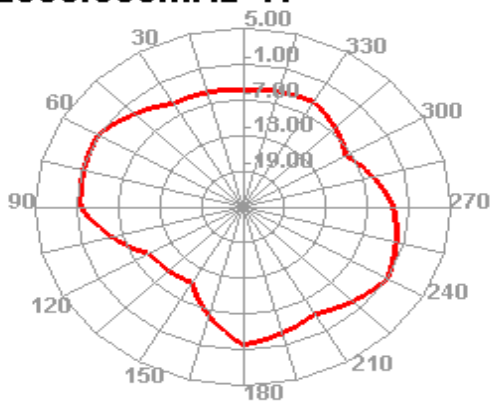
2450.000MHz E1



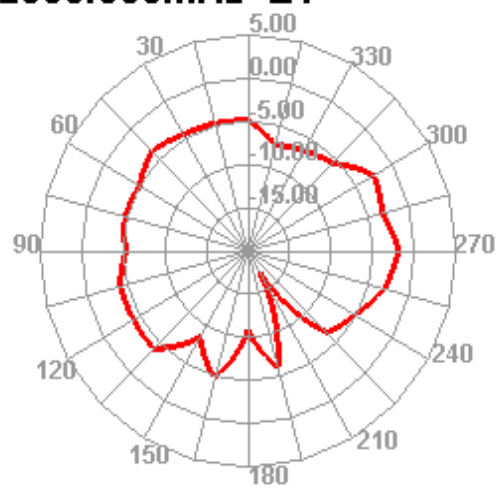
2450.000MHz E2



2500.000MHz H



2500.000MHz E1



2500.000MHz E2

