

Dongzhen Electronics Co., Ltd

Antenna Specification for Approval

Customer Name: _____

Product Name: 2.4G copper tube antenna

Product Name: _____

Part NO. : DZ113H-BT44122-29-80R

Write By: Zhou Min

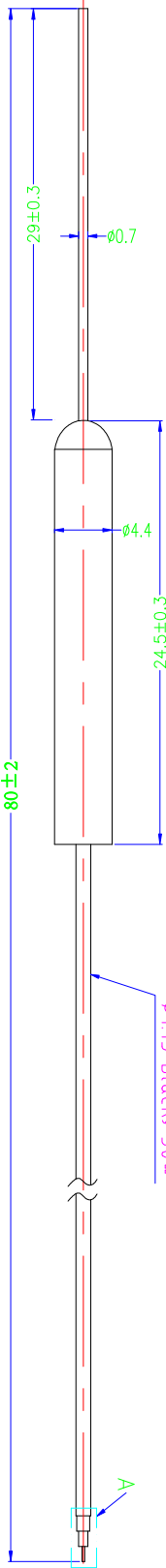
Issued Date: 2021-11-1

customer:

R&D Dept	Business Dept	Approved By

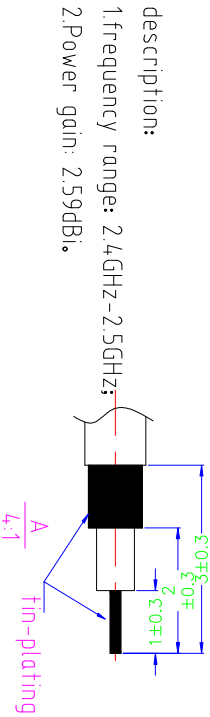
Dongzhen

R&D Dept	Engineer Dept	Approval



bushing 2.5x35MM

phi 1.13 black, 50 ohm



Dongzhen Electronics Co., Ltd

1 2 3 4 5 6

TITLE:

2.4G antenna

MATERIAL:

FINISH:

PART/NO.:

DZ113H-B144122-29-80R

TOLERANCE ??

LINEAR ?? ANGULAR??

L<30 -±0.10 X.XX -±0.1°

30<L<100 -±0.15 X.X ±0.2°

L>100 -±0.20 X.X ±0.2°

UNLESS OTHERWISE SPECIFIED

UNIT IN

mm

SCALE:

??

DATE

2.5:1

CHECKING

DATE

21-06-25

REV

01

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <2.0

Efficiency >75%

Impedance 50 Ohm

Polarization Line

Gain 2.59DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.13

Connector Type : NO

Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

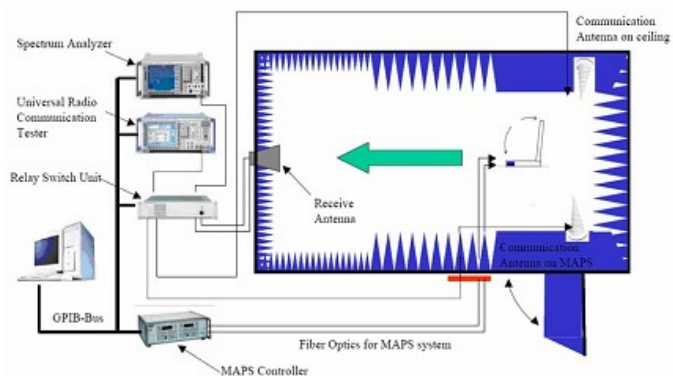
1. Network Analyzers :

Agilent 8753D 5071B

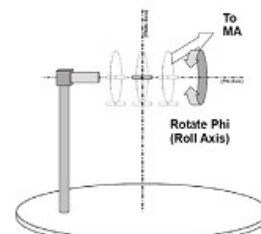
2. Communications Test Set:

Agilent E5515C

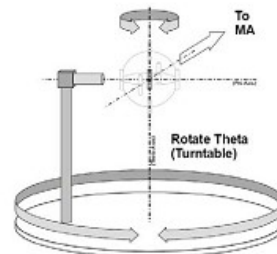
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

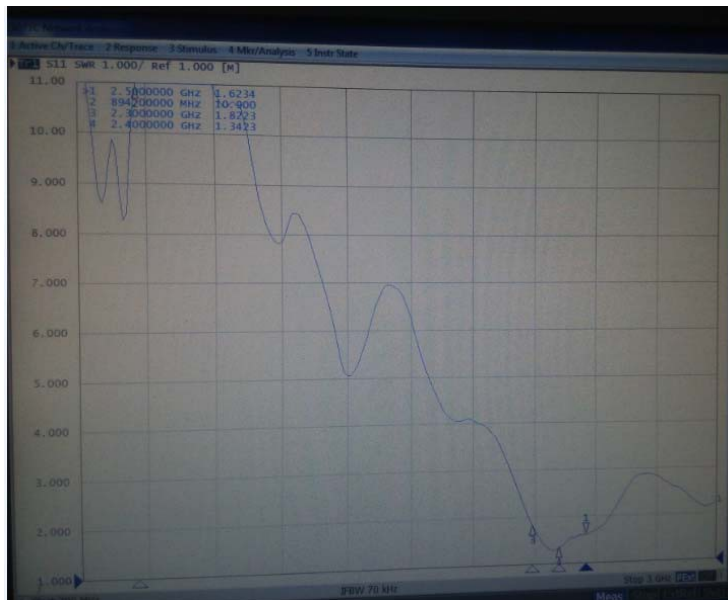


Theta axis test

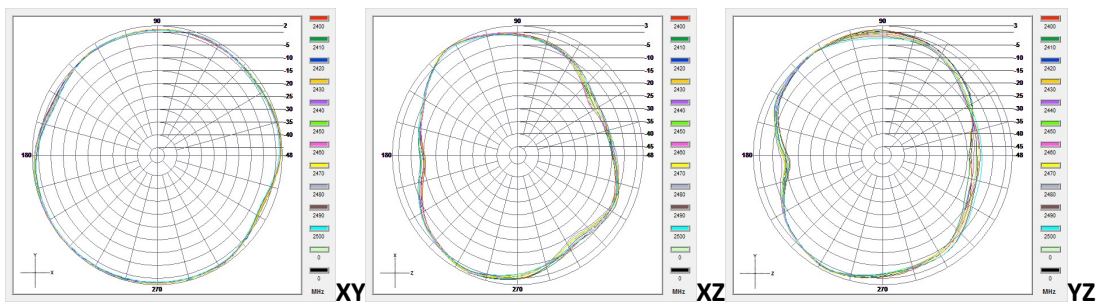
Efficiency & Gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	76.95	2.42
2410	74.84	2.56
2420	74.68	2.51
2430	72.55	2.55
2440	66.66	2.59
2450	72.06	2.53
2460	71.87	2.46
2470	72.95	2.51
2480	72.43	2.46
2490	68.41	2.40
2500	67.46	2.43

S11



Radiation Pattern:



2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

