

Dongguan Lixinwei Electronics Co., Ltd
Antenna Specification for Approval

Customer Name: Ke yu

Address: _____

Product Name: 2.4GHZ copper tube antenna

Part NO. : C113H-BT450-90R

Write By: Zhou Min

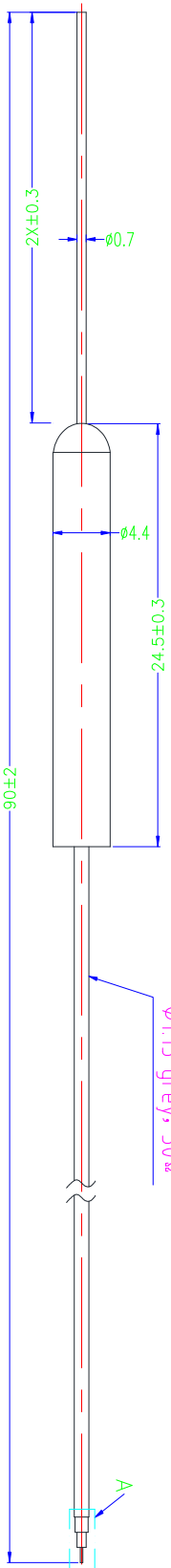
Issued Date: 2021-12-13

Customer:

R&D Dept	usiness Dept	Approved By

Supplier

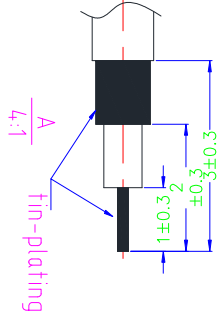
R&D Dept	Engineer Dept	Approval
Ni Sheng	Zhang Ming	xiong



bushing 2.5x35MM

φ1.13 grey, 50Ω

description:
 1.frequency range: 2.4GHz-2.5GHz;
 2.Power gain: 2.09DBi.



TITLE:		2.4G antenna		MATERIAL:		FINISH:	
PART/NO.:		C113H-BT450-90R		TOLERANCE ??		ANGULAR??	
UNIT IN	SCALE:	DATE	DATE	LINEAR ??	ANGULAR??	CHECKING	REV
mm	2.5:1	21-06-25		L<30 ±0.10	XXX-±0.1°	UNLESS OTHERWISE SPECIFIED	01
				30<L<100 ±0.15	XX ±0.2°		
				L>100 ±0.20	XX ±0.2°		

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Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz

VSWR <2.0

Efficiency >75%

Impedance 50 Ohm

Polarization Line

Gain 2.09DBi

B. Material & Mechanical Characteristics

Material of Radiator Cu

Cable Type 1.13 grey

Connector Type : NO

Dimension

C. Environmental

Operation Temperature - 30 °C ~ + 80 °C

Storage Temperature - 30 °C ~ + 85 °C

Test Equipment & Conditions

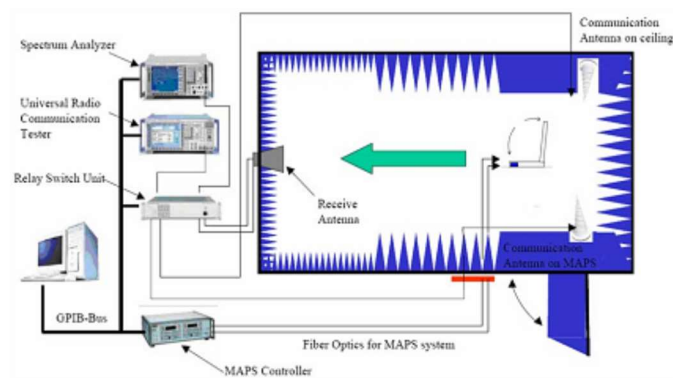
1. Network Analyzers :

Agilent 8753D 5071B

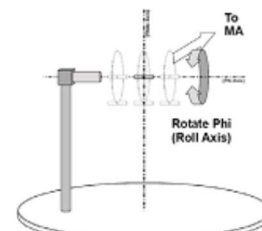
2. Communications Test Set:

Agilent E5515C

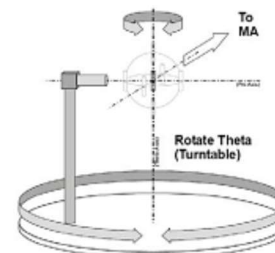
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

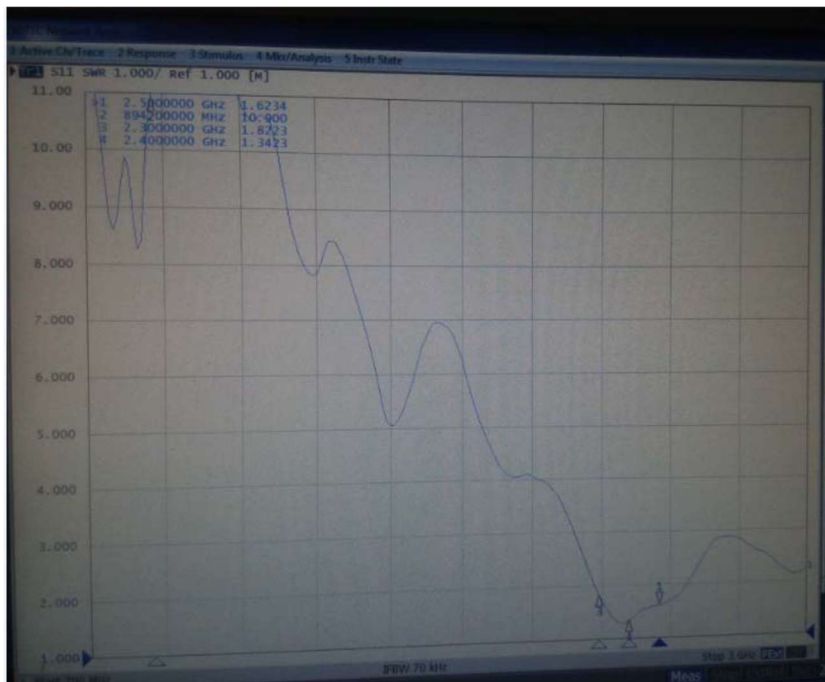


Theta axis test

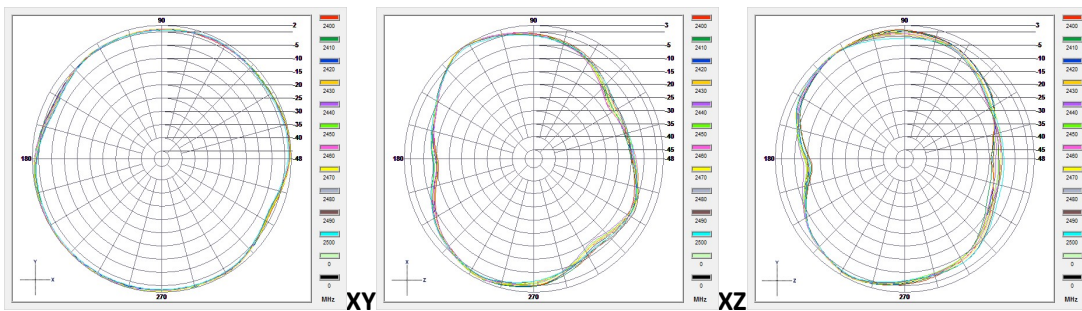
Efficiency & Gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	76.45	2.02
2410	74.46	2.06
2420	74.58	2.01
2430	72.59	2.06
2440	66.69	2.03
2450	72.16	2.03
2460	71.67	2.09
2470	72.96	2.00
2480	72.45	2.00
2490	68.43	2.05
2500	76.68	2.09

S11



Radiation Pattern:



YZ

2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

