

Antenna Specification for Approval

Customer Name: _____

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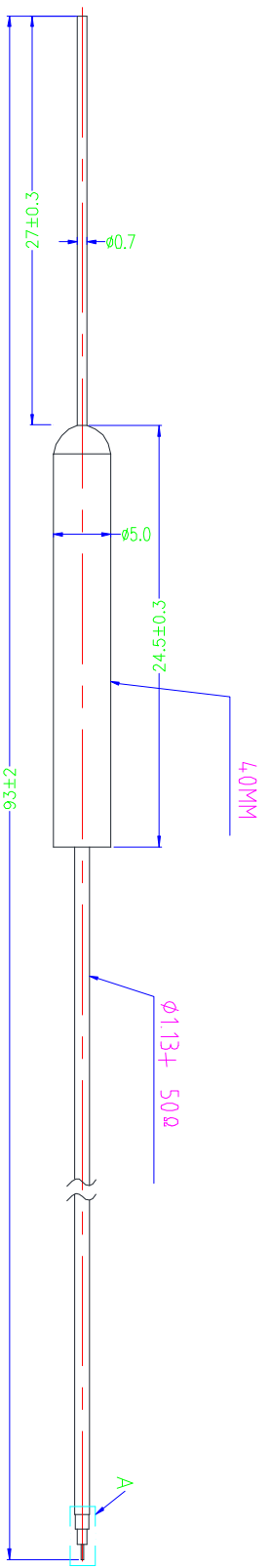
Product Name: 2.4G Copper tube antenna

Product Name: _____

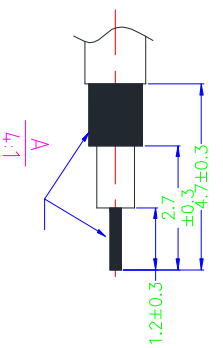
Part NO. : C113F-BT450-93R

Write By: _____

Issued Date: 2019-4-15



2.4GHz-2.5GHz;
2.0dBi.



TITLE: ??		MATERIAL: ??		FINISH: ??	
PART/NO.: C113F-BT450-93R		TOLERANCE ??		ANGULAR??	
UNIT IN: mm		SCALE: 2.5:1		XXX - ±0.1°	
DRAWING		CHECKING		REV	
DATE: 18-12-25	DATE: ??	DATE: ??	DATE: ??	DATE: ??	01
UNLESS OTHERWISE SPECIFIED		L<30 - ±0.10		XXX - ±0.1°	
		30<L<100 - ±0.15		XX - ±0.2°	
		L>100 - ±0.20		X - ±0.2°	

1 2 3 4 5 6

Product Specification

A. Electrical Characteristics

Frequency 2400MHz ~2500MHz VSWR

<2.0

Efficiency >75%

Impedance 50 Ohm

Polarization Line

Gain 2DBi

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

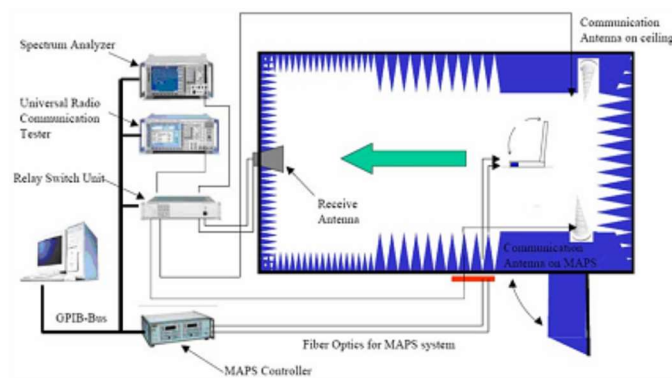
1. Network Analyzers :

Agilent 8753D 5071B

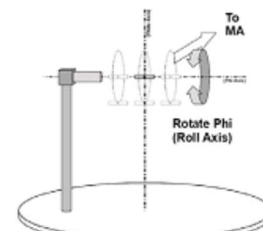
2. Communications Test Set:

Agilent E5515C

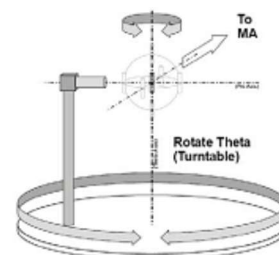
3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



Phi axis test

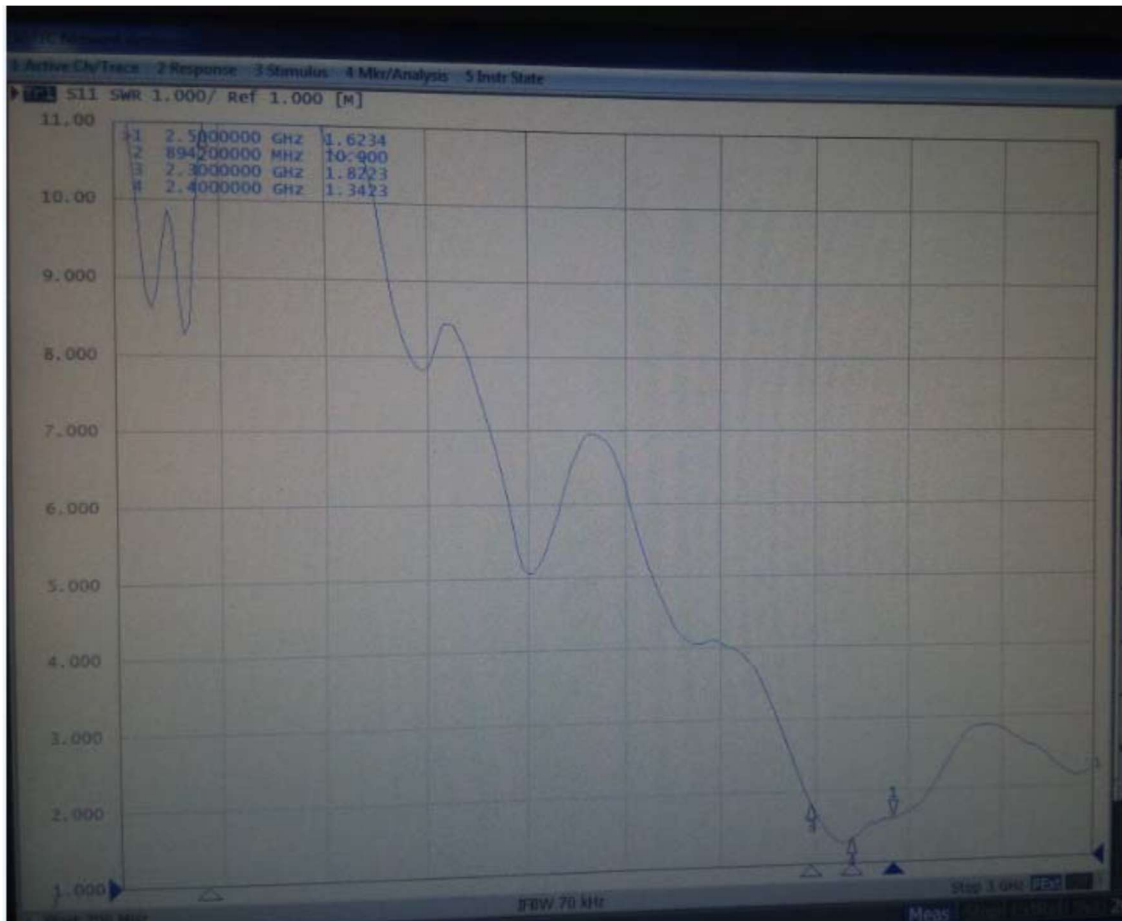


Theta axis test

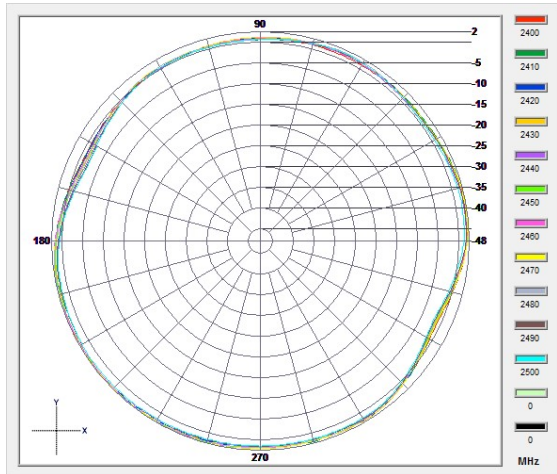
Efficiency & Gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	76.95	2.4
2410	74.84	2.86
2420	74.68	2.8
2430	72.55	2.97
2440	66.66	2.51
2450	72.06	2.73
2460	71.87	2.86
2470	72.95	2.80
2480	72.43	2.78
2490	68.41	2.72
2500	67.46	2.33

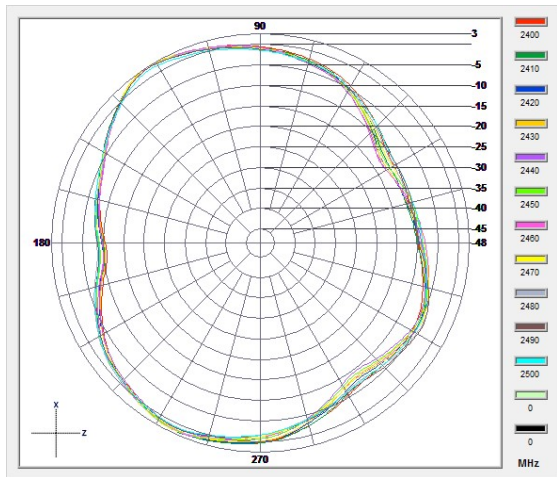
S11



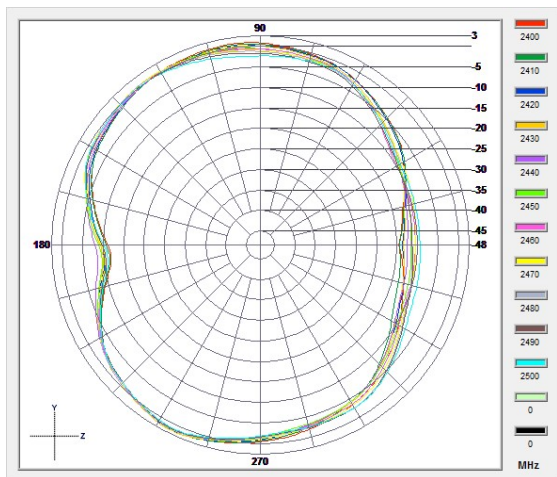
Radiation Pattern:



XY



XZ



YZ

2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500

