



Shenzhen Tianxing Communication Technology Co.,Ltd
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SPECIFICATION

for

Guangzhou Zhongmeng Technology Co., Ltd

Customer No.

Product No.

SD0101-Copper tube-2.4G -105MM

Author: Zeng Xiaofeng Review: Li Ming

Release Date: 2025.07.24

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Shenzhen Tianxing Communication Technology Co.,Ltd



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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer		
Mechanical		
Project Manager		
Commercial/Puchasing		
Checker		

1.2 Signature of Tianxing Communication company

Seapartment/post	Sign	Date
Antenna Engineer		
Mechanical		
Project Manager		
QA		
Checker		



2. General

2.1 Scope of application

WIFI Antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO.	ITEMS	DETAILS
1	Type	/
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤1.3
4	Gain	2dBi
5	Radiation Efficiency	≥50%
6	Impedance	50Ω
7	Antenna Type	monopole
8	Antenna composition	1.13 Coaxial line+copper pipe
9	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	Metal tube	Ø 4.4 24mm silver
2	Copper axis	Ø 1.13 105MM black
3	Heat shrinkable rod	Ø 4.0 60MM black

4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:



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Technical requirements:

1. All unit dimensions are in millimeters.
2. Materials:

1st generation terminal/heat shrink tube
Black single-silver RF cable

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2.4G WIFI

Part: SMT01-Black Tube-2.4G
Material: WFI-105MM

Drawing No.	Revision	Date
1	1	2023.10.10

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4.2 Electric Performance

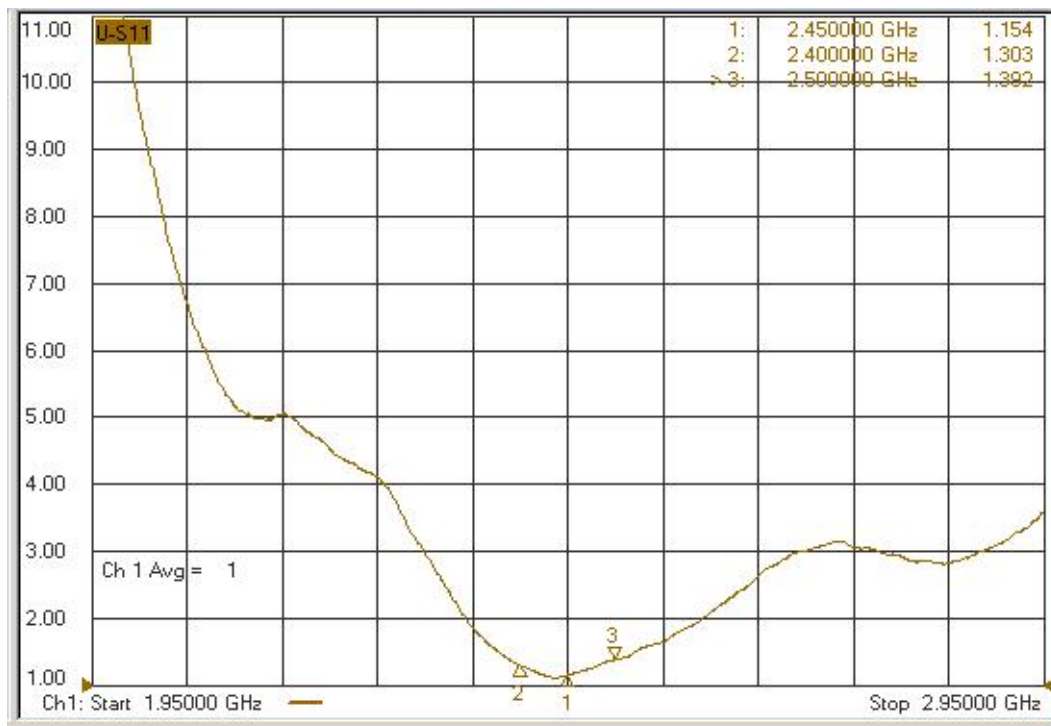
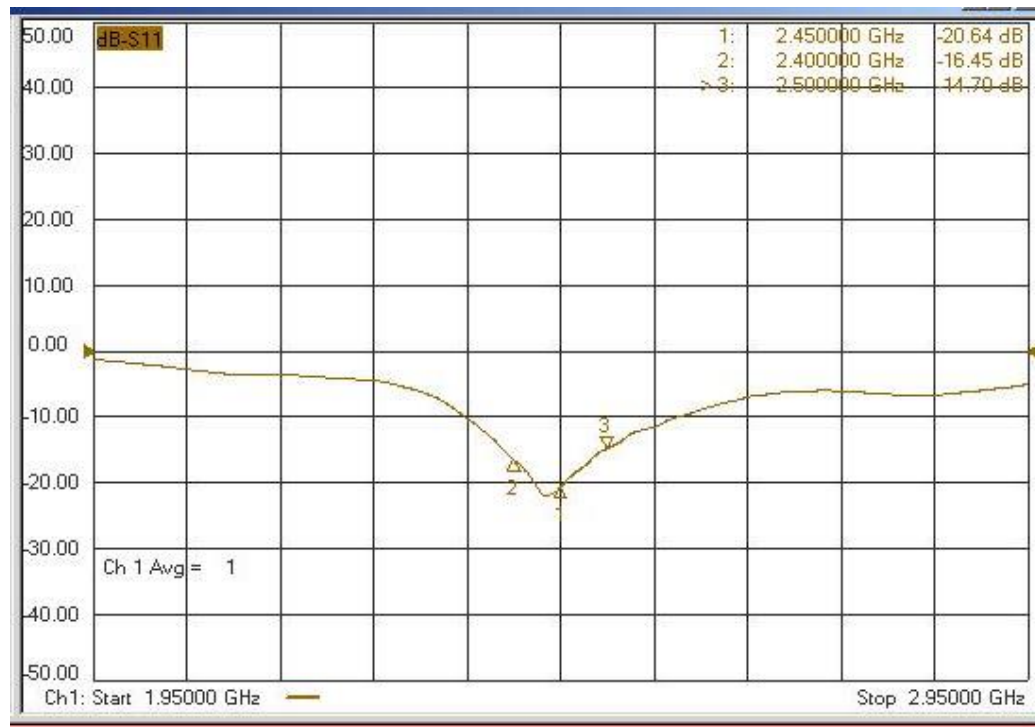
4.21 Test condition

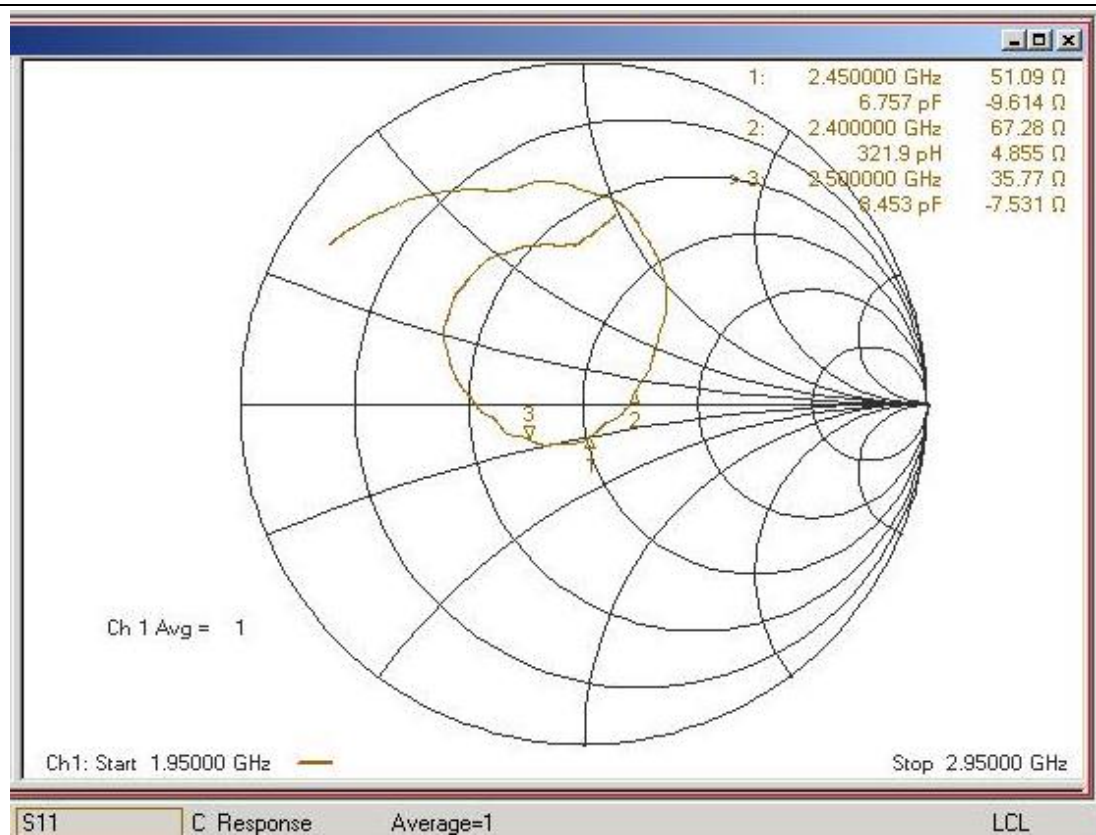
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: Agilent E8358A
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

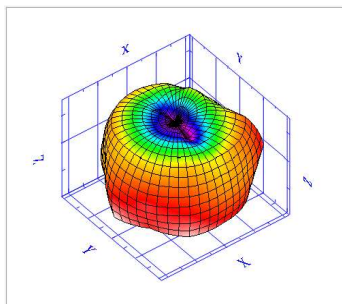
4.22.1 S11 of the Antenna:

Marker	2450MHz	2400MHz	2500MHz
Returnloss	-20.6	-16.4	-14.7
VSWR	1.1	1.3	1.3

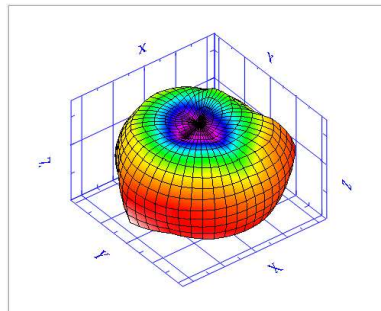




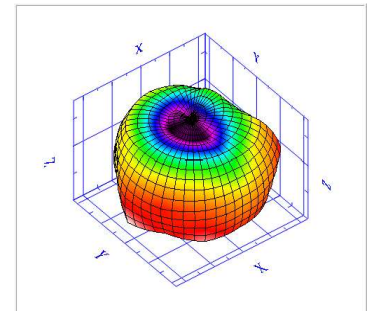
2400MHz



2450MHz



2500MHz





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2025/07/24
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/7/24	1.00	New Project