



Shenzhen Tianxing Communication Technology Co.,Ltd
Page number 1-10

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

ShenZhen Tianxing Communication Technology Co., Ltd

510 West, building 64, Jinlong Industrial City, majialong, Nanshan District, Shenzhen

E-mail: sz_shuodian@163.com

Tel: 0755-86006322

Fax: 0755-86006323

Shenzhen Tianxing Communication Technology Co.,Ltd



Contents

<u>SPECIFICATION.....</u>	<u>1</u>
<u>SHENZHEN TIANXING COMMUNICATIONTECHNOLOGY CO., LTD</u>	<u>1</u>
<u>CONTENTS</u>	<u>2</u>
<u>1. BILATERAL CONFIRMATION PAGE</u>	<u>3</u>
<u>2. GENERAL</u>	<u>4</u>
<u>3. GENERAL PRODUCT SPECIFICATIONS</u>	<u>4</u>
<u>4. SPECIFICATION DETIALS</u>	<u>5</u>
<u>4.1 MECHANICAL PROPERTIES</u>	<u>5</u>
<u>4.2 ELECTRIC PERFORMANCE</u>	<u>7</u>
<u>5. PRODUCT PACKAGING</u>	<u>10</u>
<u>6. DOCUMENT RESUME</u>	<u>10</u>



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

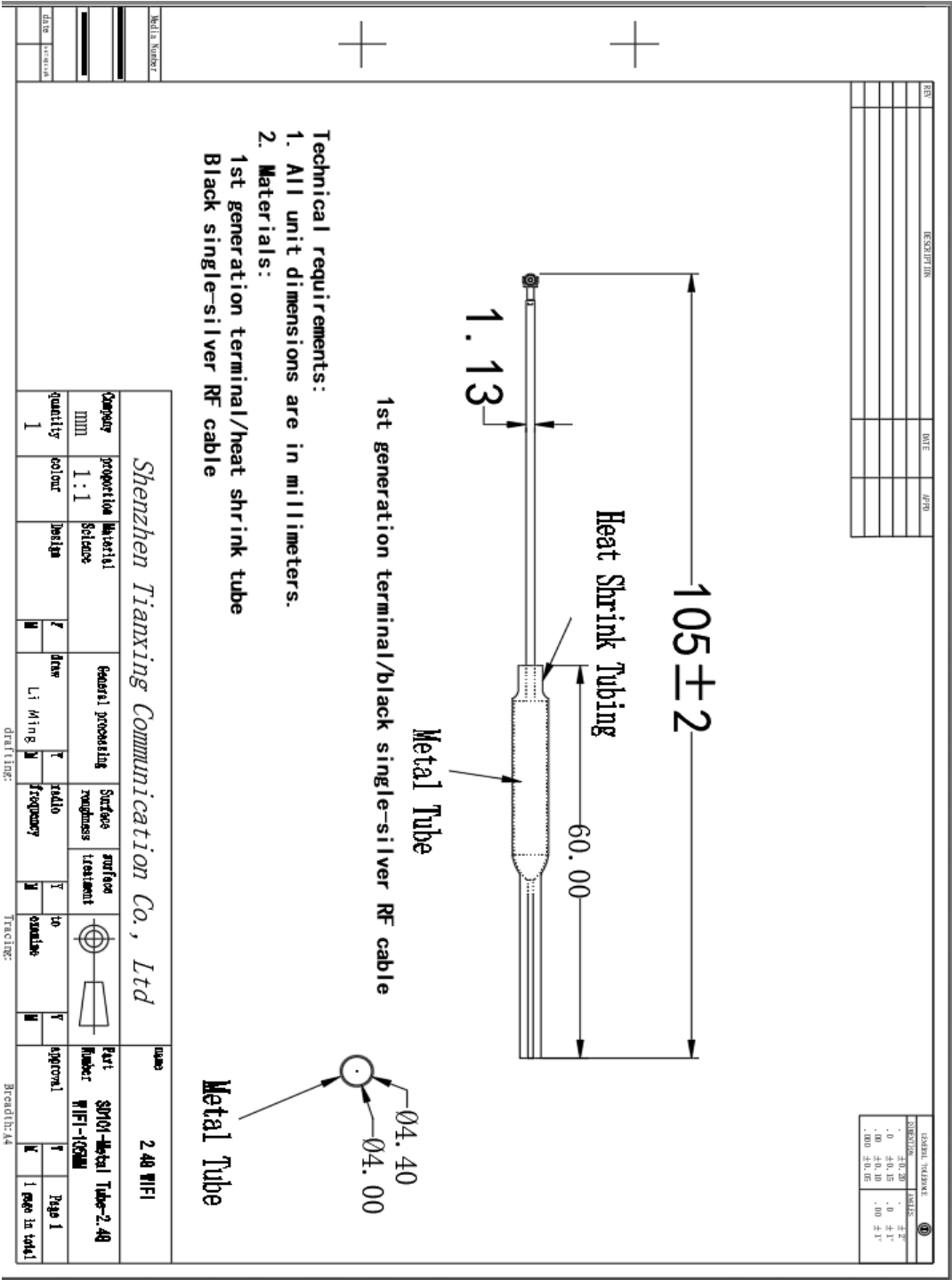
Good appearance without scars 、dirts、protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:



Product drawings:





4.2 Electric Performance

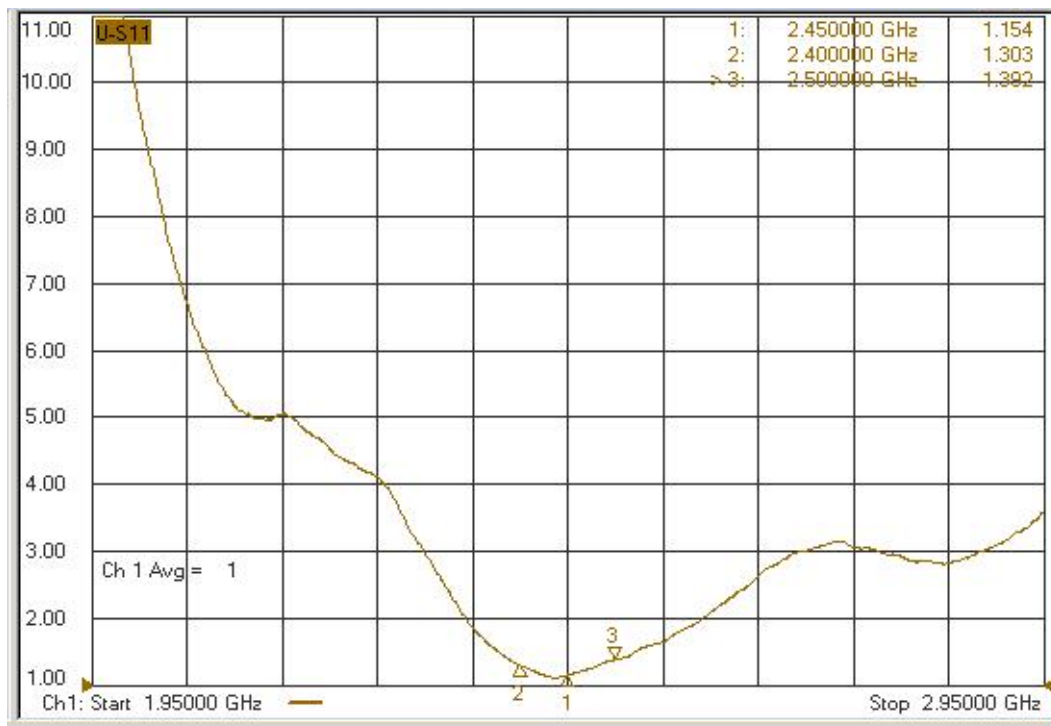
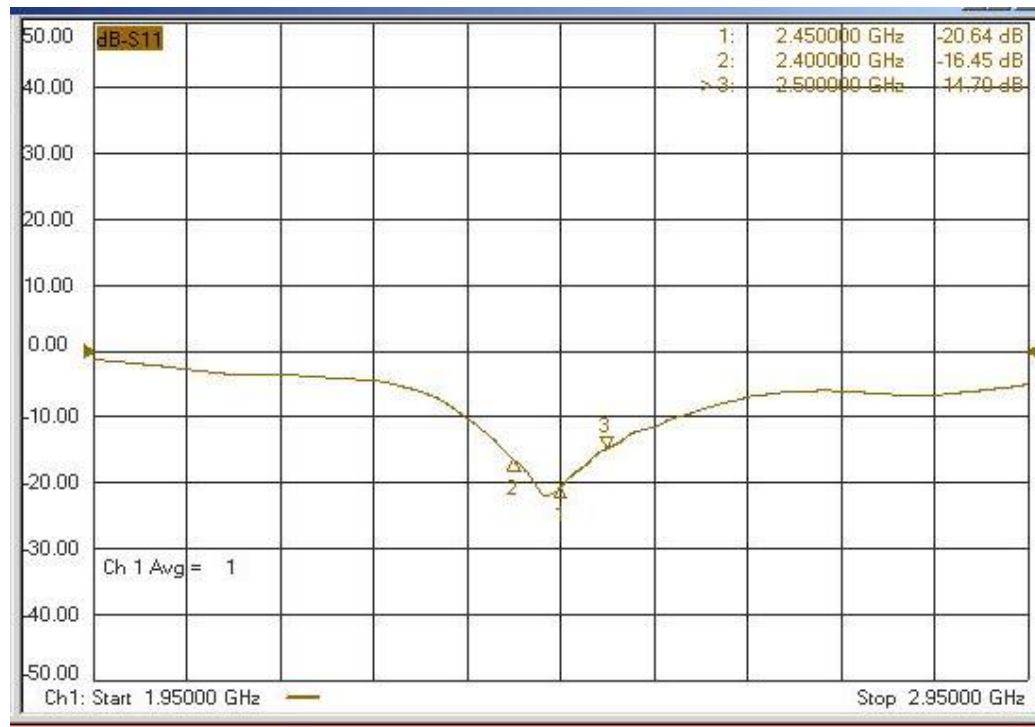
4.21 Test condition

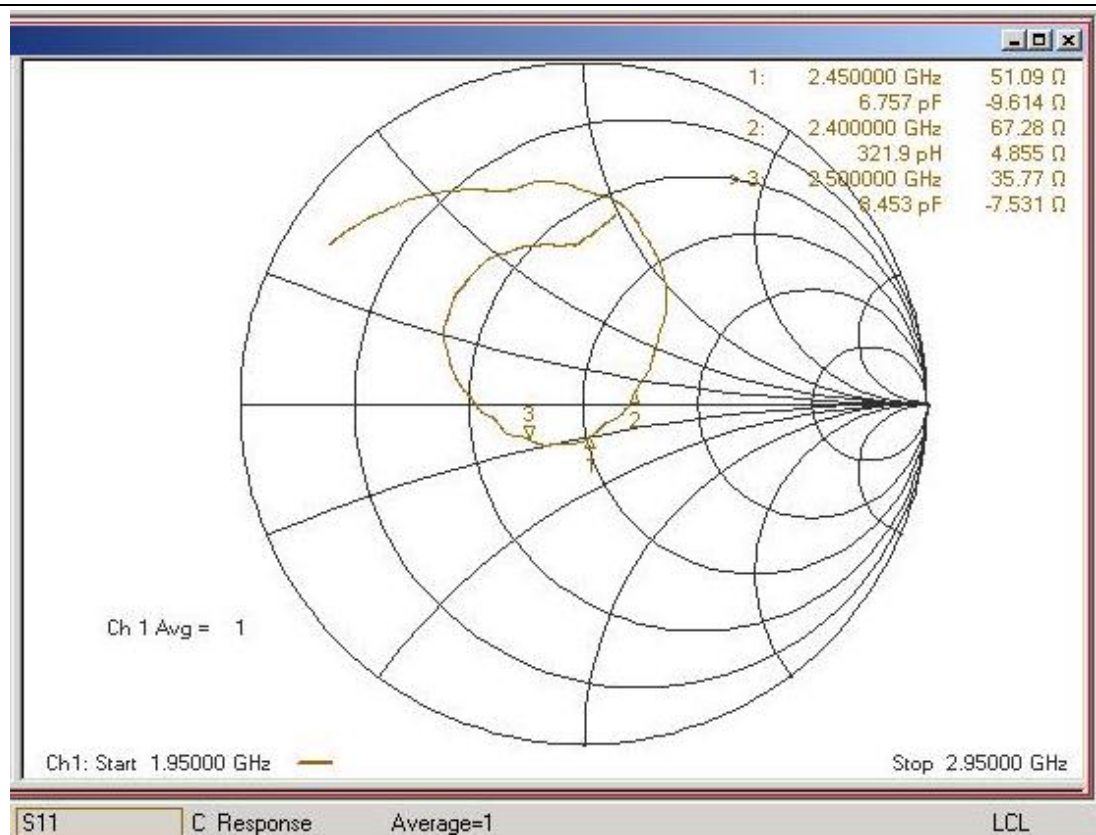
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: Agilent E8358A
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

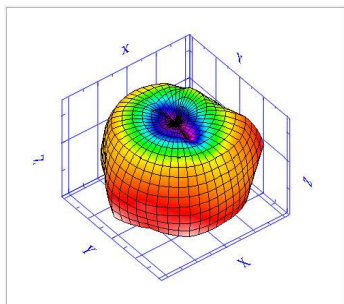
4.22.1 S11 of the Antenna:

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

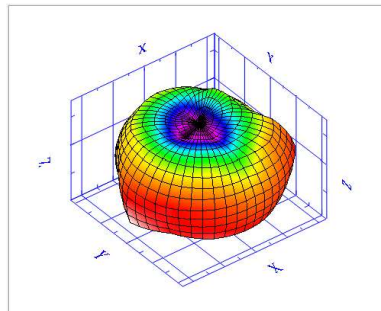




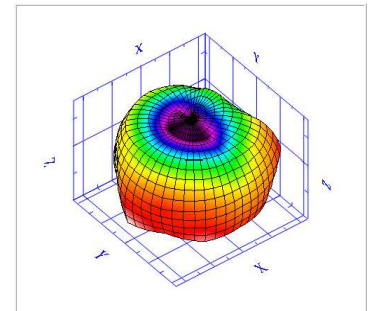
2400MHz



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