



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

Water Detector 2.4G Antenna

Woan Technology (Shenzhen) Co., Ltd

Customer No.

E.A.2BT21002SD

Product No.

WA-WaterDetector metal

Author: XiaofengZeng Review: Liming

Release Date: 2023.11.16

ShenZhen Shuodian Electronic Technology Co., Ltd

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

E-mail: sz_shuodian@163.com

Tel: 0755-86006322

Fax: 0755-86006323

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1. Bilateral Confirmation page

1.1 Customer signature

Customer: Woan Technology (Shenzhen) Co., Ltd

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

1.2 Signature of ShuoDian Technology company

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



2. General

2.1 Scope of application

This specification is only applicable to Woan technology Water Detector 2.4G 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	Water Detector 2.4G Antenna
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤ 2.0
4	Impedance	50Ω
5	Antenna Type	IFA
6	Antenna composition	Metlas (White Copper)
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

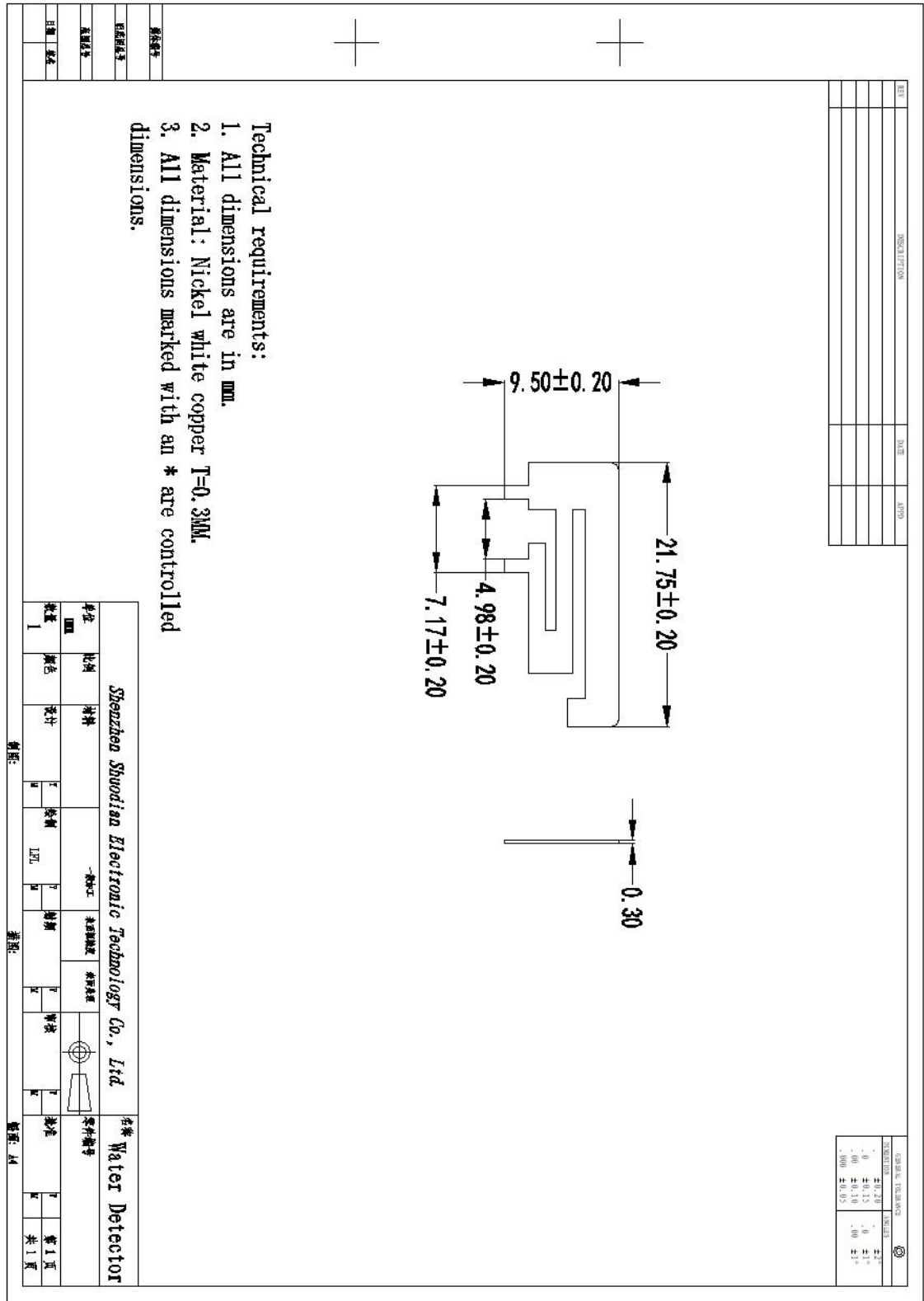
No.	Material	Size (MM)
1	Metals (White Copper)	21. 75*9. 5*0. 3 Usage amount 2pcs

4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:





4.2 Electric Performance

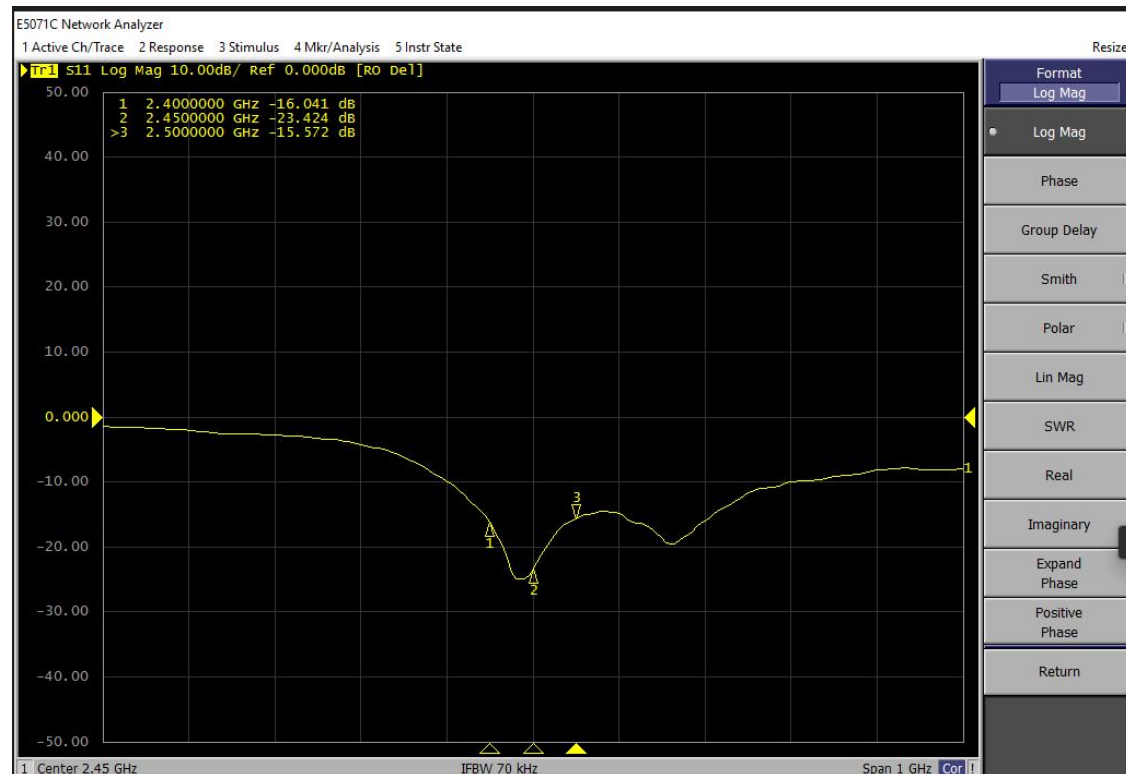
4.21 Test condition

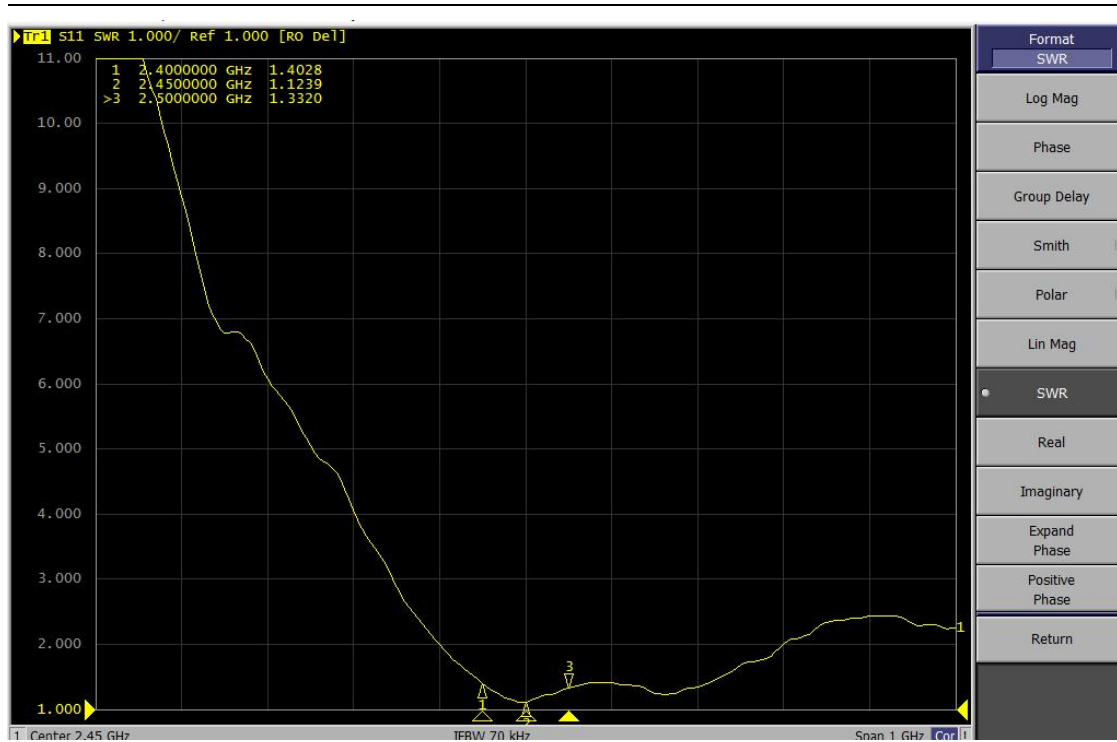
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-16.04	-23.42	-15.57
VSWR	1.40	1.12	1.33



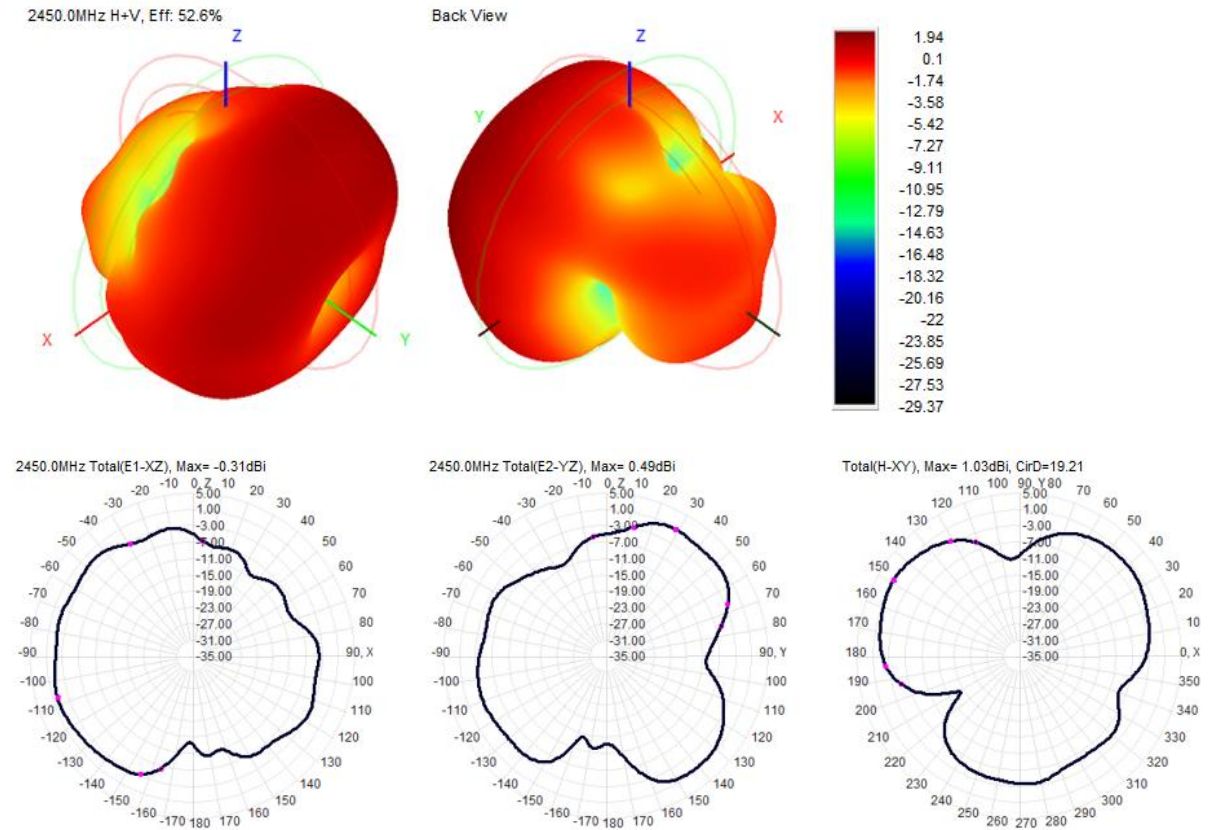


4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

频率 (MHz)	Gain (dBi)	Efficiency (%)
2400.0	1.89	47.66
2410.0	1.69	48.05
2420.0	1.57	48.82
2430.0	1.68	49.29
2440.0	1.88	51.26
2450.0	1.94	52.58
2460.0	2.07	53.66
2470.0	2.18	52.92
2480.0	2.22	51.71
2490.0	2.37	51.39
2500.0	2.46	51.77



Radiation Pattern 2450MHz



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2023/11/16
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2023/11/16	1.00	New Project