



**Shenzhen Shuodian Electronic Technology Co.,Ltd**  
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# **SPECIFICATION**

for

**blindtilt Antenna**

**Woan Technology (Shenzhen) Co., Ltd**

**Customer No.**

**Product No.**

**WA-blindtilt-metal antenna**

Author: XiaofengZeng      Review: Liming

Release Date: 2022.07.15

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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## **1. Bilateral Confirmation page**

### **1.1 Customer signature**

**Customer:** Woan Technology (Shenzhen) Co., Ltd

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

### **1.2 Signature of ShuoDian Technology company**

<b>Seapartment/post</b>	<b>Sign</b>	<b>Date</b>
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 blindtilt 2.4GHz metal 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	blindtilt
2	Operating Frequency Band	2.4~2.5GHz
3	VSWR	≤2.0
4	Max. Gain	2.61dBi
5	Radiation Efficiency	≥50%
6	Impedance	50Ω
7	Antenna Type	IFA
8	Antenna composition	Metlas (White Copper)
9	Entity Picture	



## 4. Specification Details

### 4.1 Mechanical Properties

#### 4.11 Product Composition:

No.	Material	Size (MM)
1	Metals (White Copper)	16.63*21.30 Thick 0.3mm

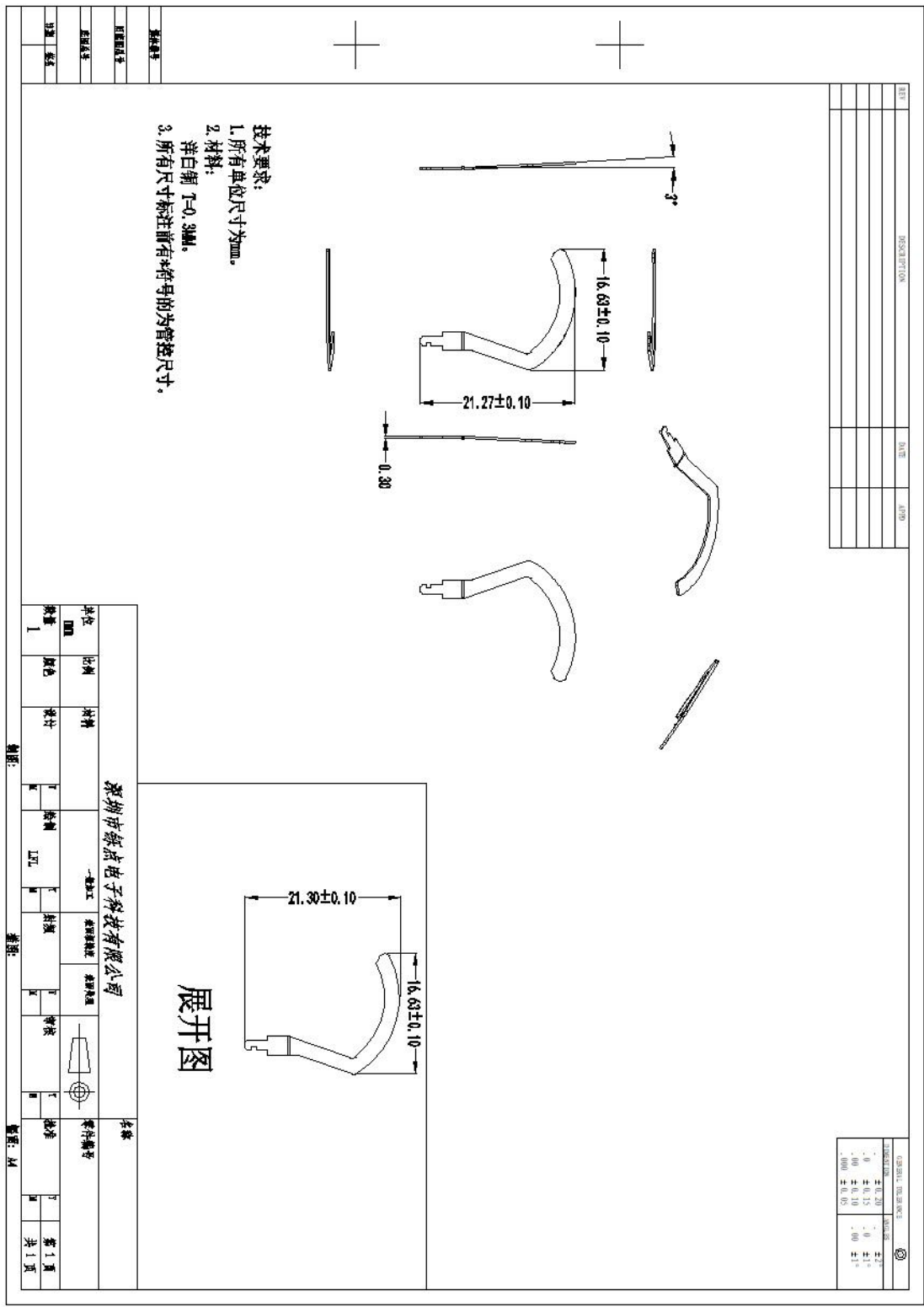
#### 4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

#### 4.13 Antenna Picture and Structure Dimension

Refer to product drawings:

**Product drawings:**





## 4.2 Electric Performance

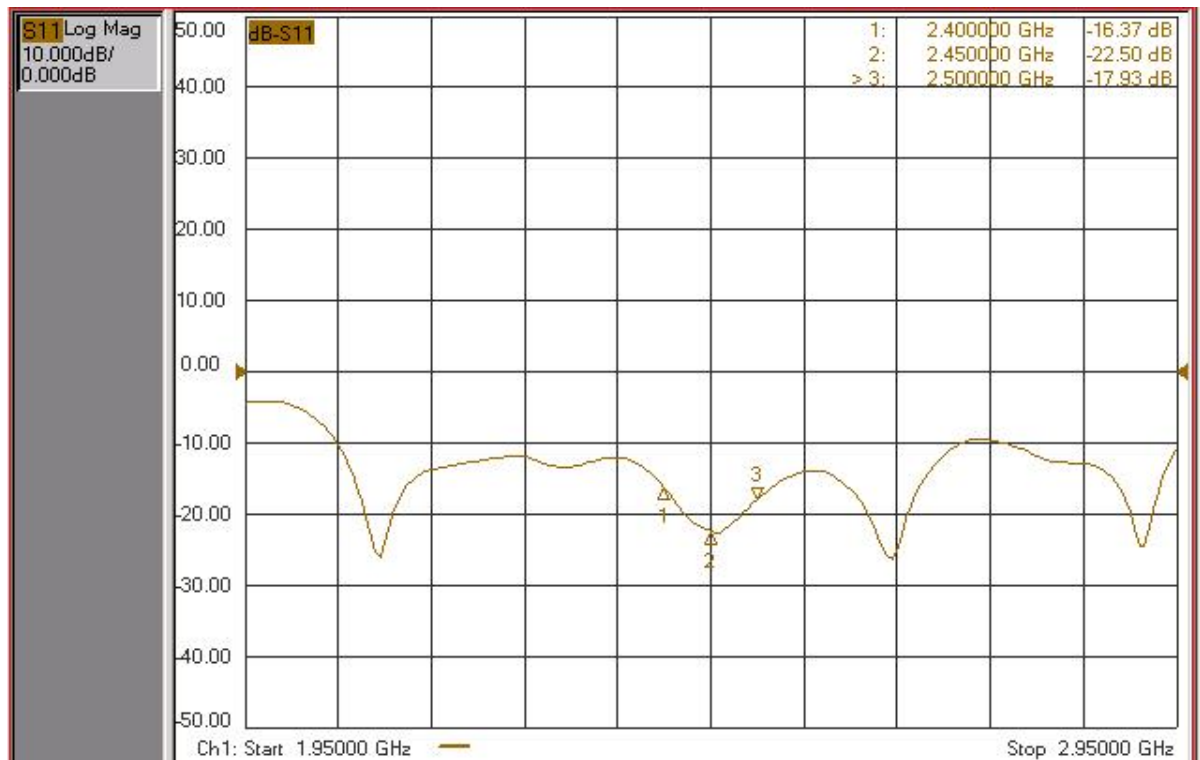
### 4.2.1 Test condition

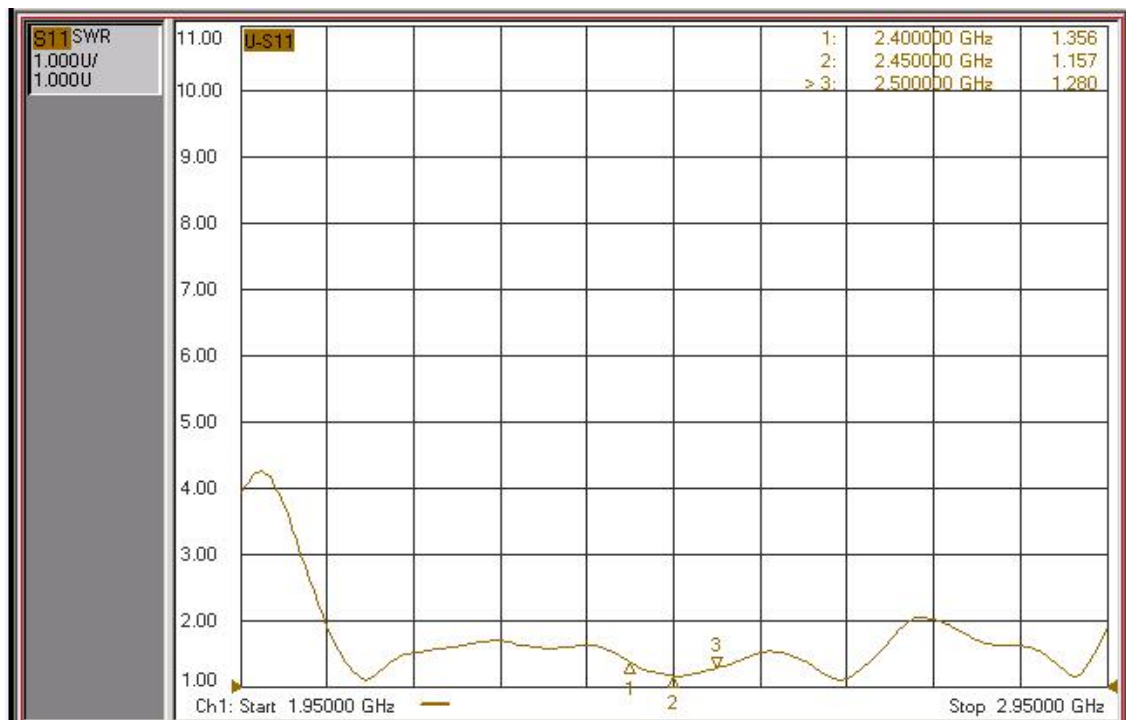
Environment:		Equipment:	
Temperature:	10℃——+30℃	Network Analyzer:	Agilent E8358A
Humidity:	≤80% (+40℃)	Anechior Chamber:	ETS
Atmospher:	750mmkg±30mmkg		

### 4.2.2 Test Data for Electrical Performance:

#### 4.2.2.1 S11 of the Antenna:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-16.37	-22.50	-17.93
VSWR	1.35	1.16	1.28





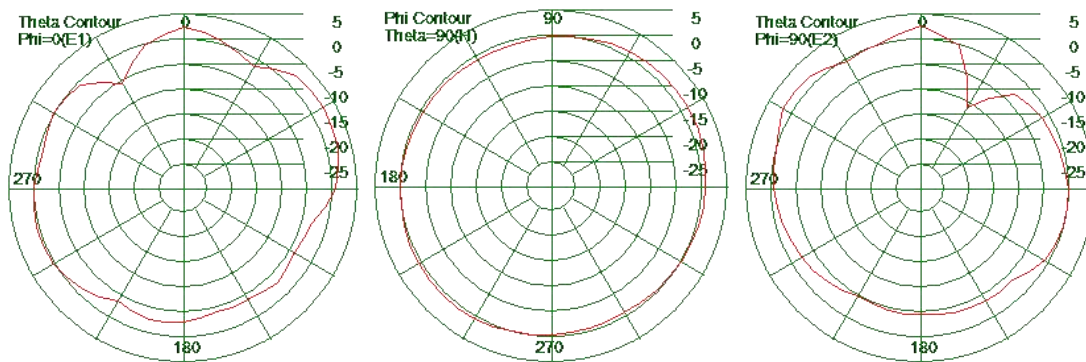
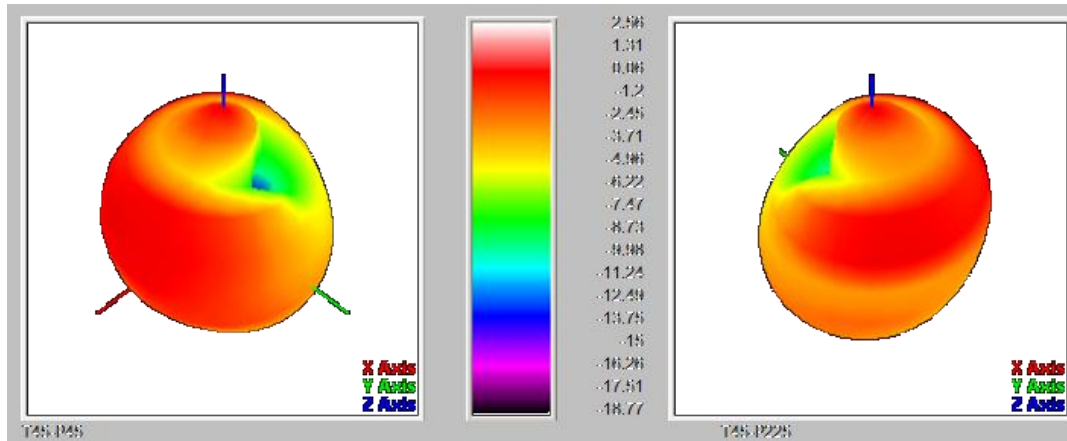
4.22.2 Passive gain、 efficiency and Radiation Pattern:

Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.35	67.5%
2410.0	2.38	68.3%
2420.0	2.54	68.2%
2430.0	2.57	66.0%
2440.0	2.61	65.5%
2450.0	2.56	64.5%
2460.0	2.50	65.0%
2470.0	2.30	64.3%
2480.0	2.24	65.4%
2490.0	2.19	59.7%
2500.0	2.41	66.1%





4.2.2.3 Radiation Pattern @2450MHz





## 5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

## 6. Document Resume

Document No.	
Release Date	2022/07/15
Author	XiofengZeng
Review	LiMing

### Revised History

Date	Version	Revised Record
2022/07/15	1.00	New Project