



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

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

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

1.2 Signature of ShuoDian Technology company

Separtment/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 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	$\geq 50\%$
6	Impedance	50 Ω
7	Antenna Type	IFA
8	Antenna composition	Metlas (White Copper)
9	Entity Picture	



4. Specification Detials

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

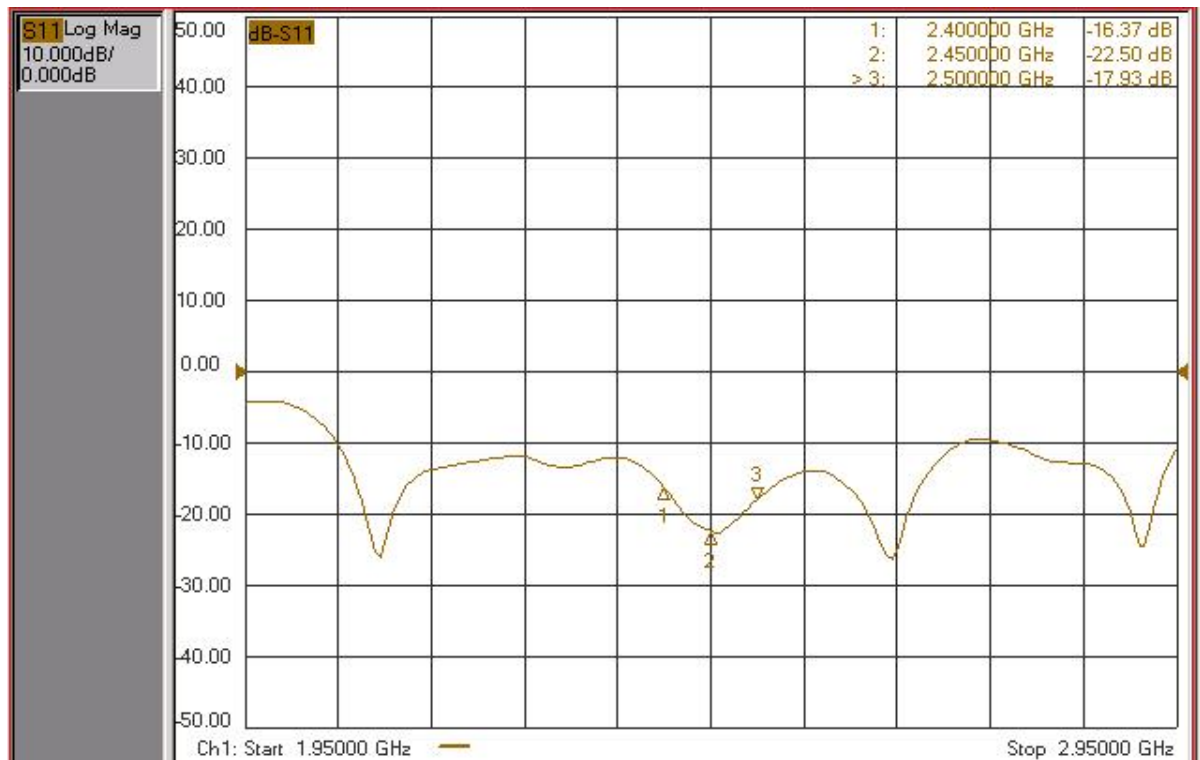
4.21 Test condition

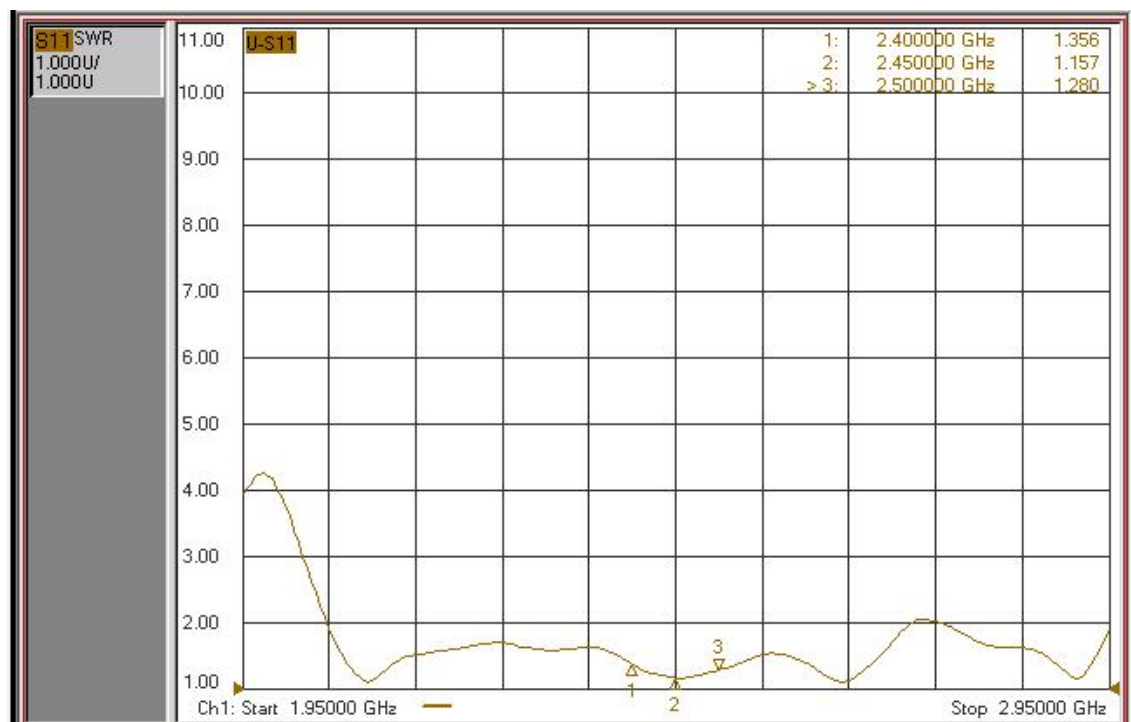
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: Agilent E8358A
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

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



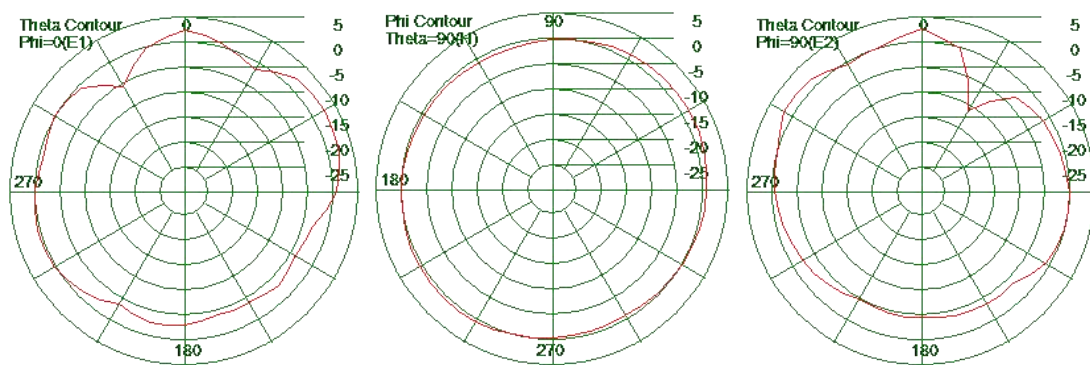
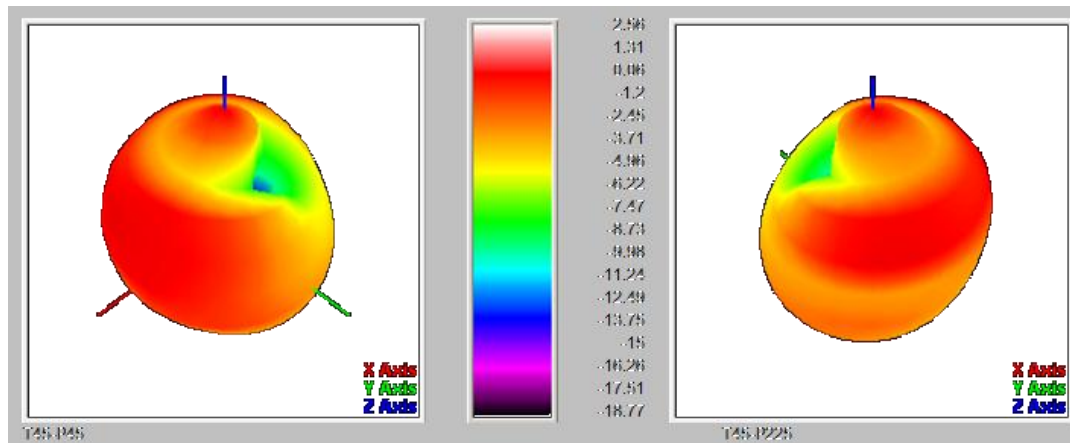


4.22.2 Passive gain、 efficiency and Radiation Pattern:

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%



4.22.3 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