



Shenzhen Shuodian Electronic Technology Co.,Ltd

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Specifications

for

RollerShade antenna

Woan Technology (Shenzhen) Co., Ltd.

客户料号

本公司料号

WA-RollerShade-metal

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Date: 2024. 04. 19

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2.General

2.1 Scope of application

This specification is only applicable to the RollerShade antenna of Woan Technology

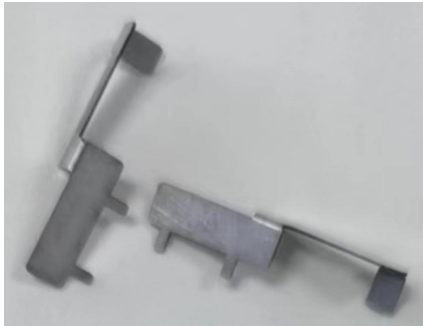
2.2 Operating temperature range

The operating temperature range of this product is -20 ~ +65 °C

2.3 Storage temperature range

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

3.Product General Specifications

NO.	ITEMS	DETAILS
1	model	RollerShade
2	Frequency band	2400-2500MHz
3	VSWR	≤ 2.0
4	impedance	50 Ω
5	Antenna Type	PIFA
6	Antenna Implementation	Metal sheets
7	Antenna Pictures	



4.Product Specifications

4.1 Product structure parameters

4.11 Product material composition:

Serial number	Material	Specifications (mm)
1	Nickel Silver	22.4*6.2*6.2

4.12 Exterior

The product has a good appearance, without scratches, sweat marks, protrusions or other defects that seriously affect the appearance.

4.13 structure size

Reference product drawings:



4.2 Product electrical performance test data

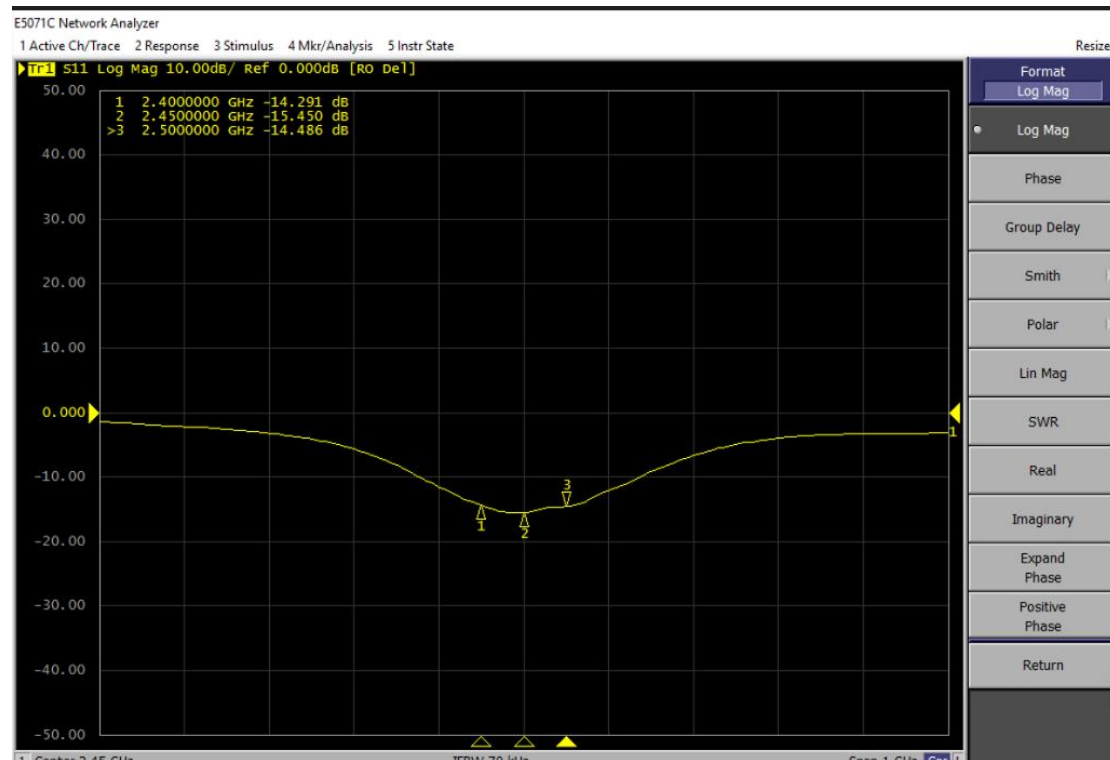
4.21 Test environment and equipment

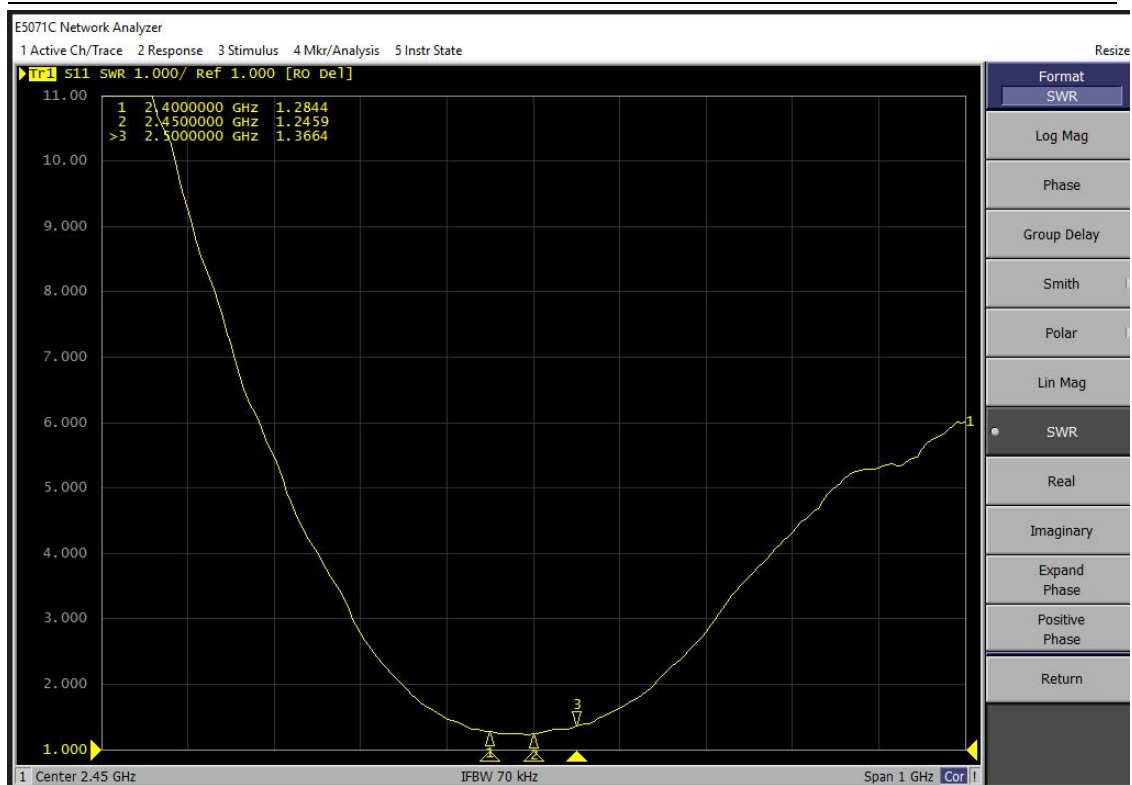
test environment:	Test Equipment:
temperature: 10℃——+30℃	Network Analyzer
Relative humidity: ≤80% (+40℃)	KEYSIGHT E5071C
Atmospheric pressure: 750mmkg±30mmkg	Multi-probe microwave anechoic chamber

4.22 Product electrical performance test data:

4.22.1 Product S11 Image:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-14.2	-15.4	-14.4
VSWR	1.28	1.24	1.36



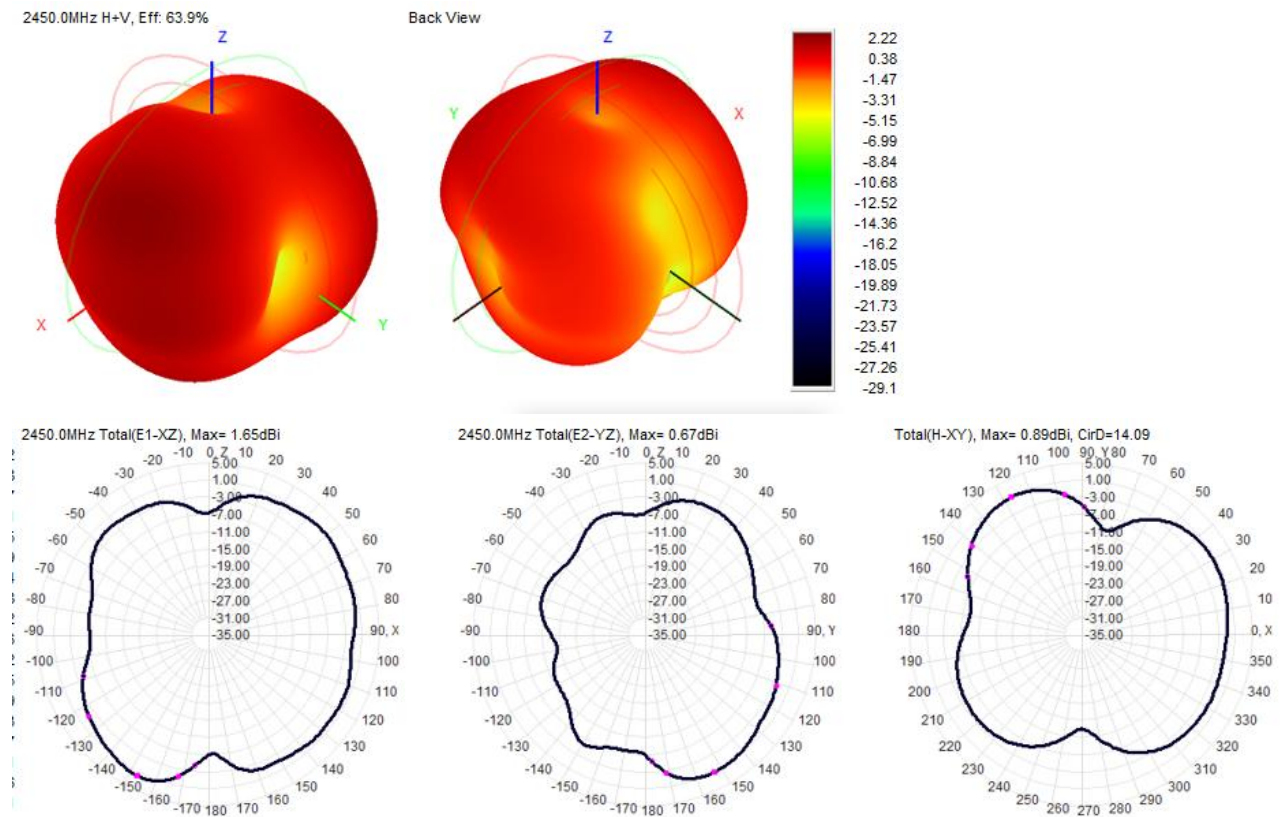


4.22.2 Gain, efficiency and radiation pattern

Fre (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.81	2.66	2.33	2.02	1.89	2.22	2.44	2.63	2.43	2.24	2.21
Efficiency (%)	63.8	63.0	61.3	61.1	62.4	63.9	64.0	64.2	62.1	60.7	60.2



Radiation pattern@2450MHz





5. Product Packaging

Packing:

Packed in ziplock bags, 200pcs per bag.

6. Document History

File No	
Document No.	
date	
Release Date	2024/04/19
prepared by	
Author	Hungjie
Review	
Review	WH

File History Table

Revised History

Date	Version	Revised Record
2024/04/19	1.00	New Project