

SPECIFICATION

for

Customer No.

Product No.

YX-JG2.4-4617-Metal nut-1.3M-RF1.13-IPEX1

Author: XiaofengZeng Review: Wenshihao

Release Date: 2024.09.26

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SHENZHEN YIXIN ELECTRONIC TECHNOLOGY CO., LTD	1
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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 2400-2500MHz.

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	Cabinet antenna
2	Operating Frequency Band	2400-2500MHZ
3	VSWR	≤2.0
4	Gain	3dBi
6	Impedance	50Ω
7	Antenna Type	Dipole
8	Antenna composition	2.4G module IPEX1 interface

9	Entity Picture	
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4. Specification Detials

4.1 Mechanical Properties

4.11 Apperance

Good appearance without scars 、dirts、 protuberances, etc.

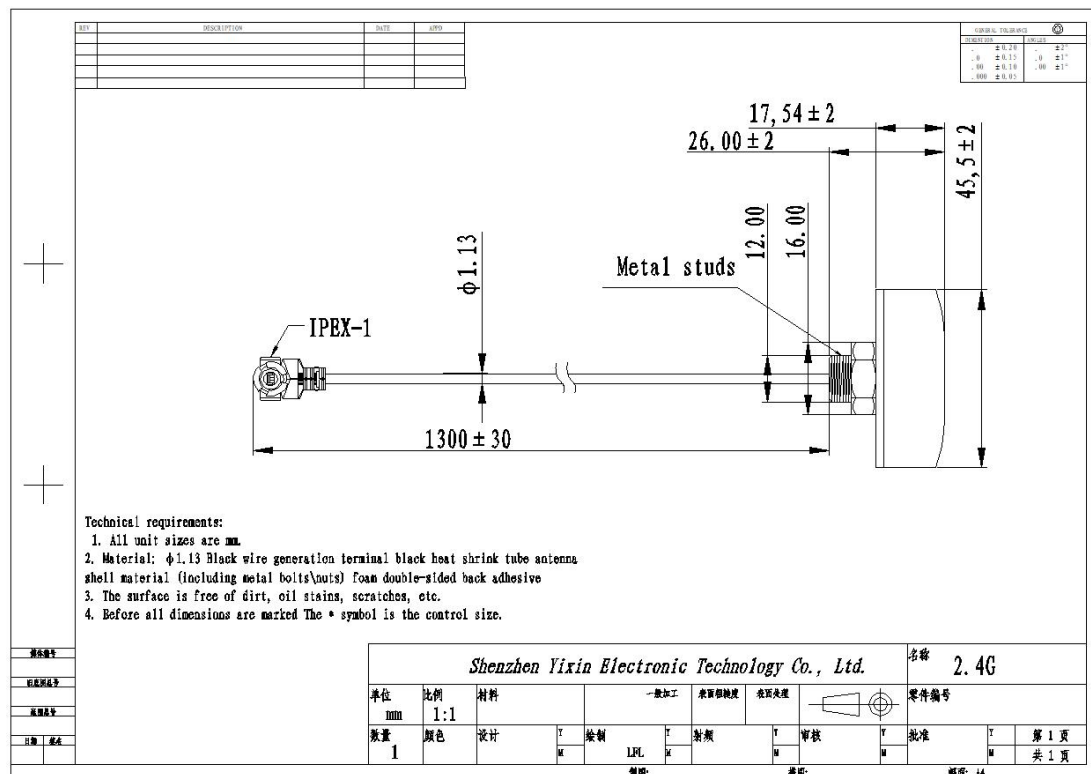
4.13 Antenna Picture and Structure Dimension

Refer to product drawings:

Product drawings:

4.

2



Electric Performance

4.21 Test condition

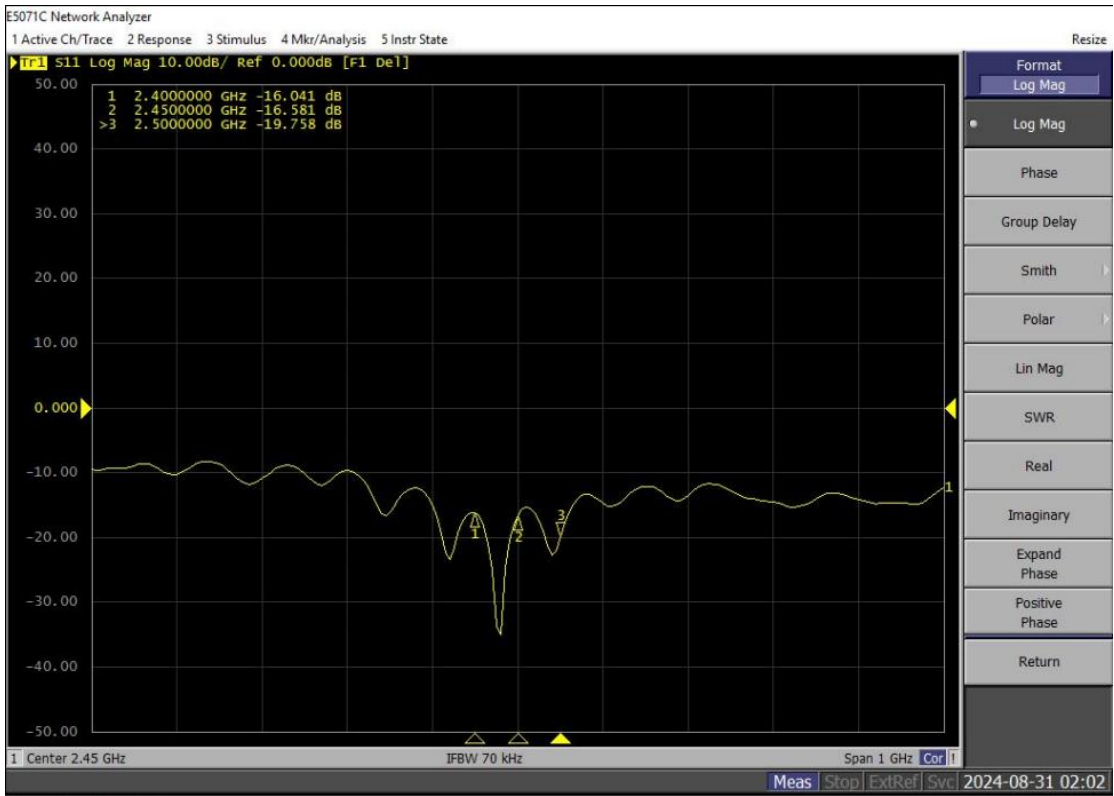
Environment:	Equipment:
Temperature: $10^{\circ}\text{C} \text{---} +30^{\circ}\text{C}$	Network Analyzer: Agilent E8358A
Humidity: $\leq 80\% (+40^{\circ}\text{C})$	Anechior Chamber: ETS

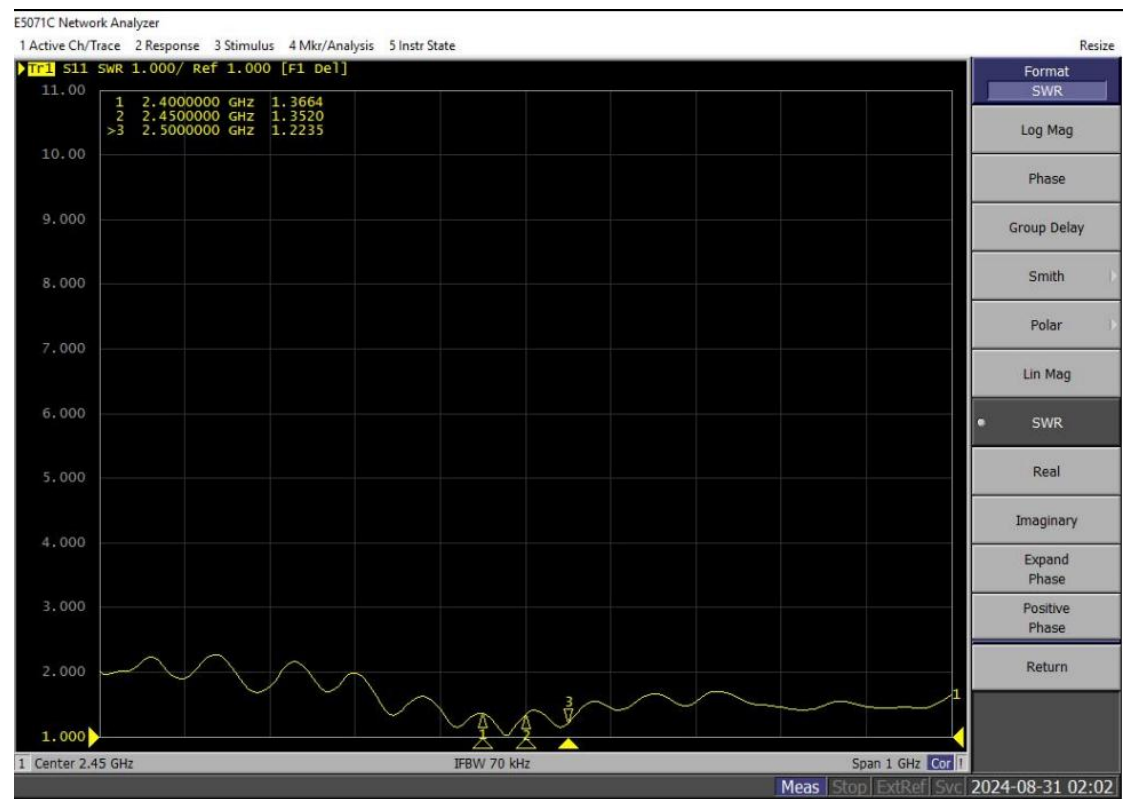
Atmospher:	750mmkg±30mmkg
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4. 22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker	2400MHz	2450MHz	2500MHz
Returnloss	-16. 04	-16. 58	-19. 75
VSWR	1. 36	1. 35	1. 22

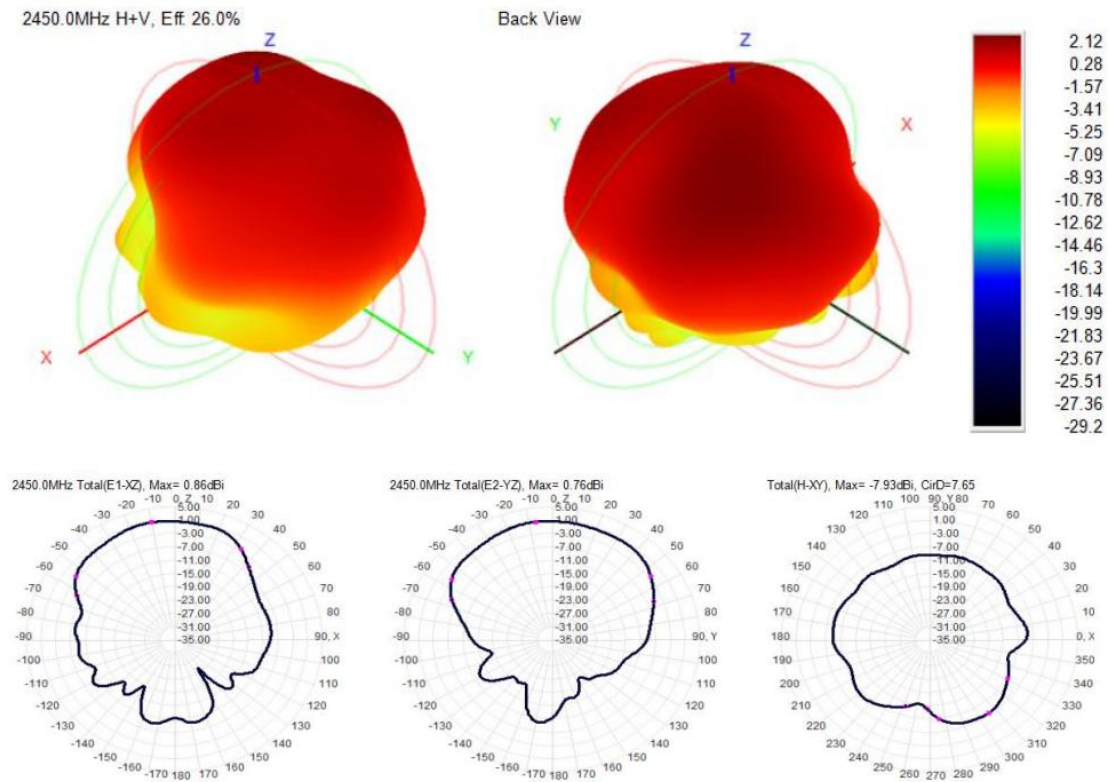




4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400	1. 09	22. 84
2450	2. 12	25. 96
2500	2. 71	23. 81

4.22.3 Radiation pattern of antenna, frequency:2450MHz



5. Product Packaging

Manner of packing:

Packed in self sealed bags, 50 pcs each.

6. Document Resume

Document No.	
Release Date	2024/9/26
Author	XiofengZeng
Review	WH

Revised History

Date	Version	Revised Record
2024/9/26	1.00	New Project