



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2DB 2.4G glue rod antenna

Customer No.

Product No.

SD-2DB 2.4G glue rod antenna-110MM

Author: XiaofengZeng Review: Liming

Release Date: 2024. 4. 3

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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

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 2.4G Glue rod 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	2.4G Glue rod antenna
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤ 2.0
4	Gain	2.35dBi
5	Impedance	50 Ω
6	Antenna Type	External antenna
7	Antenna composition	Glue rod antenna
8	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

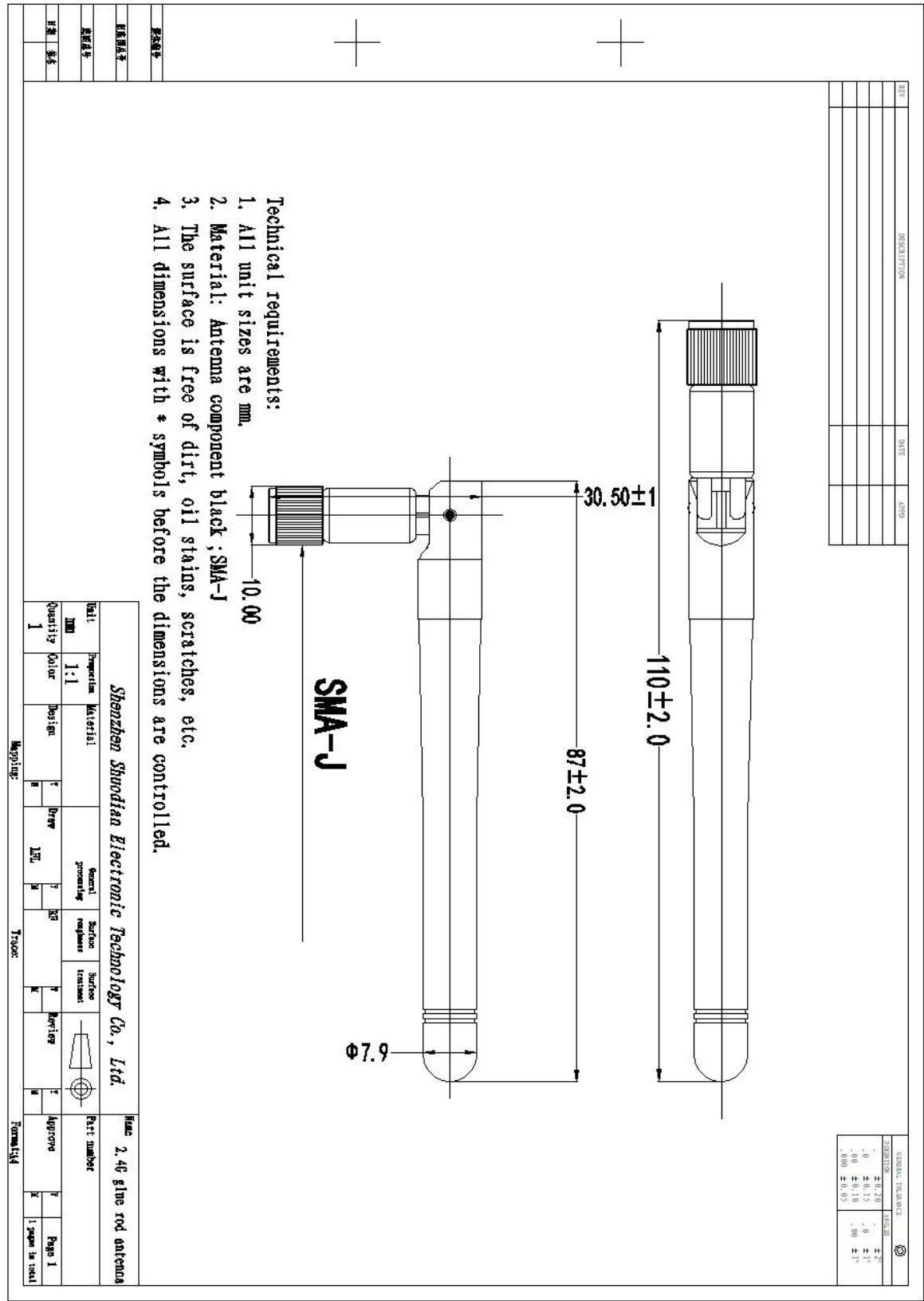
4.11 Product Composition:

4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:





4.2 Electric Performance

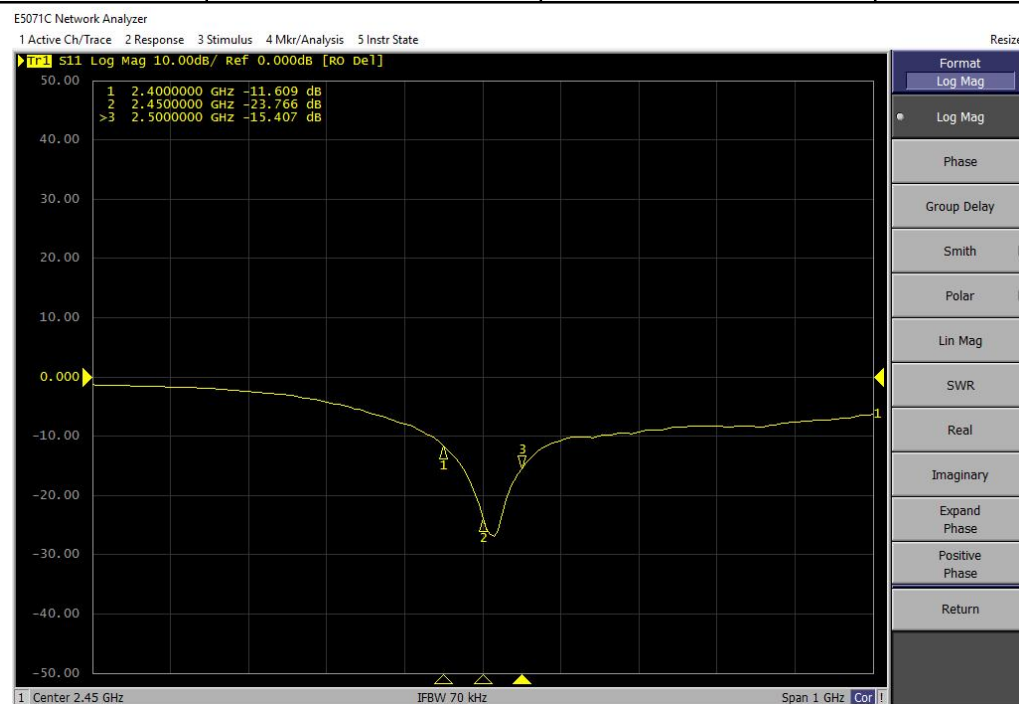
4.21 Test condition

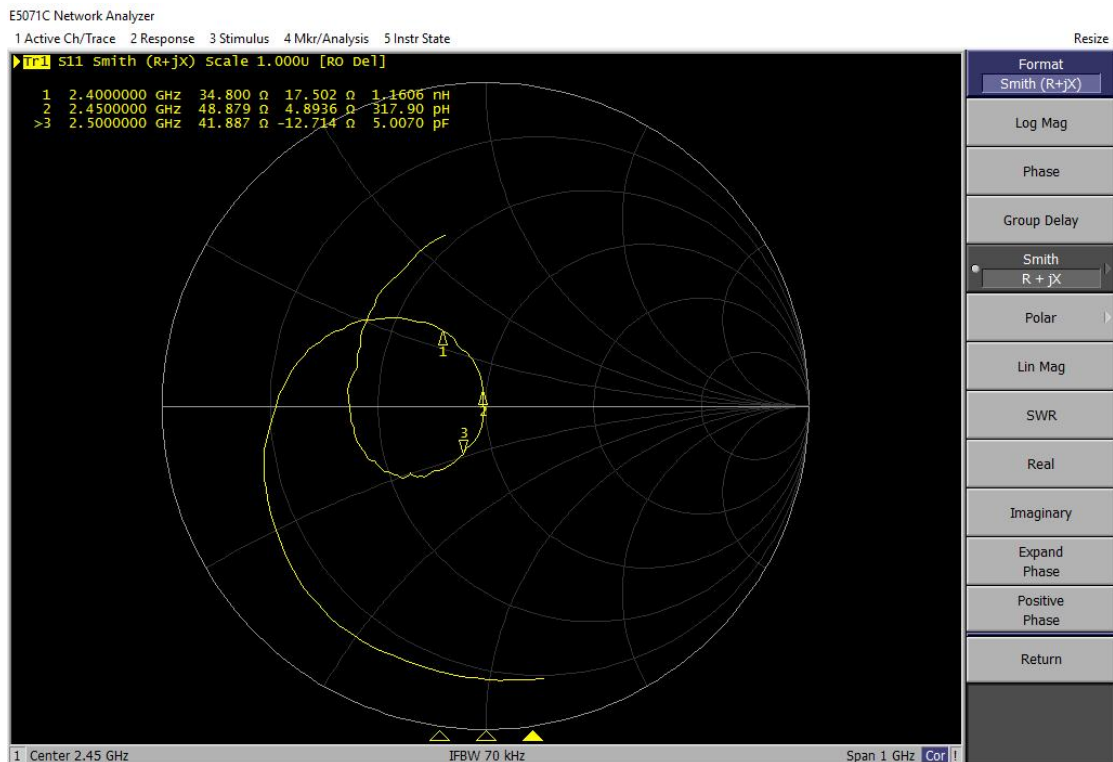
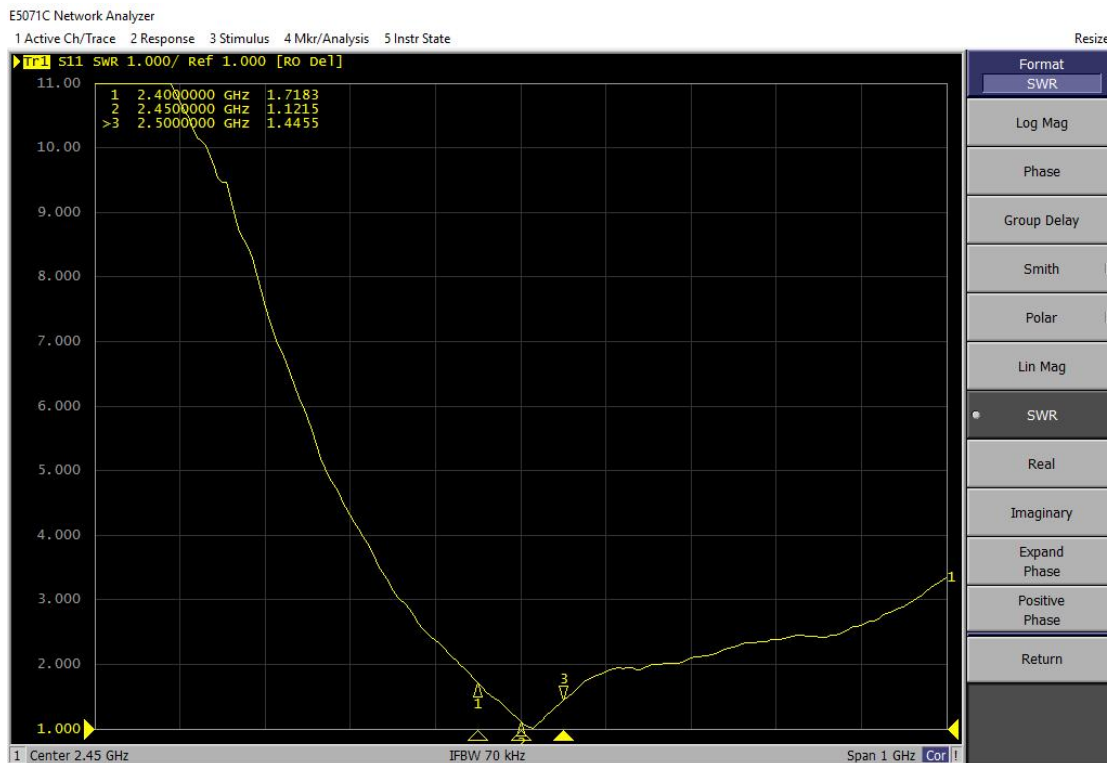
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic chamber
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHZ)	2400	2450	2500
Returnloss	-11.6	-23.7	-15.4
VSWR	1.7	1.1	1.4





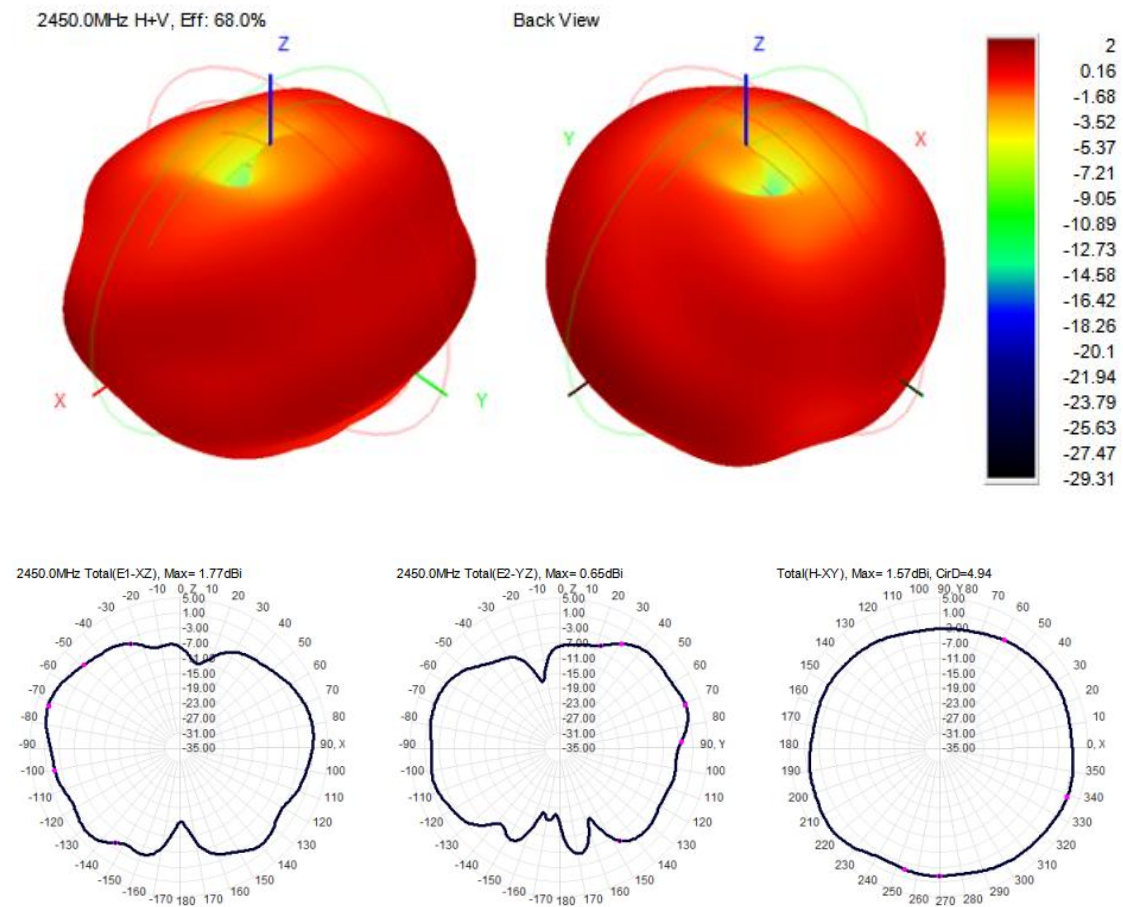


4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.42	0.79	1.12	1.52	1.88	2.00	1.96	2.03	2.29	2.35	2.19
Efficient (%)	56.01	58.88	61.59	63.38	65.58	67.99	69.07	72.04	70.91	70.95	71.00

Radiation Pattern 2450MHz

@2450MHz





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.

6. Document Resume

Document No.	
Release Date	2024/4/3
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2024/4/3	1.00	New Project