



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2.4G coaxial antenna (D809-2002)

Customer No.

Product No.

XFX-2.4G coaxial antenna (D809-2002) -213MM

Author: XiaofengZeng Review: Liming

Release Date: 2025.10.11

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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 antenna

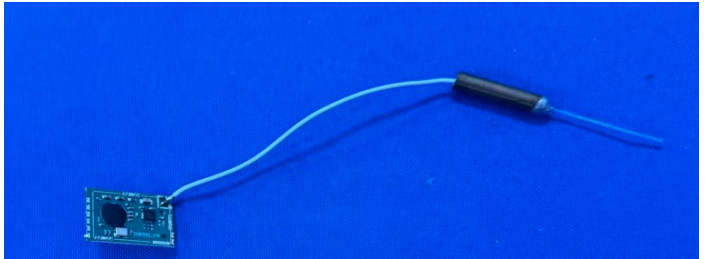
2.2 Operating temperature range

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 coaxial antenna (D809-2002)
2	Operating Frequency Band	2400-2500MHz
3	VSWR	≤3.0
4	Impedance	50Ω
5	Antenna Type	Monopole
6	Antenna composition	Coaxial cable
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	CABLE	Φ 1.13 L=213 Gray

4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:



4.2 Electric Performance

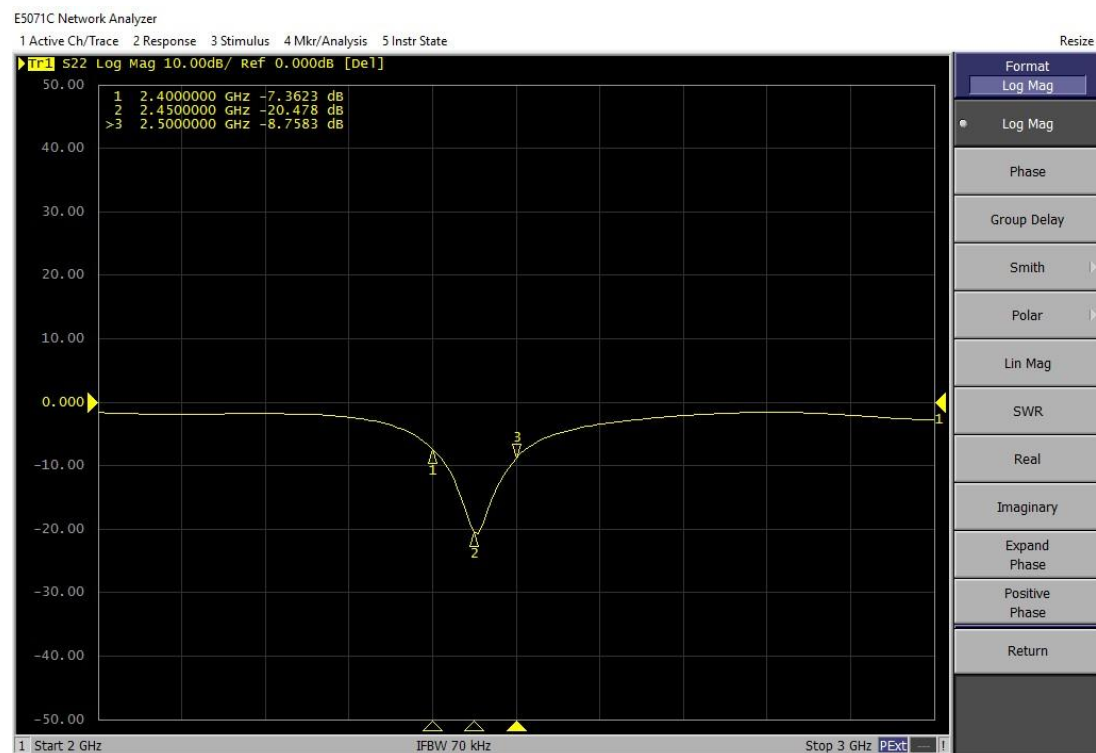
4.21 Test condition

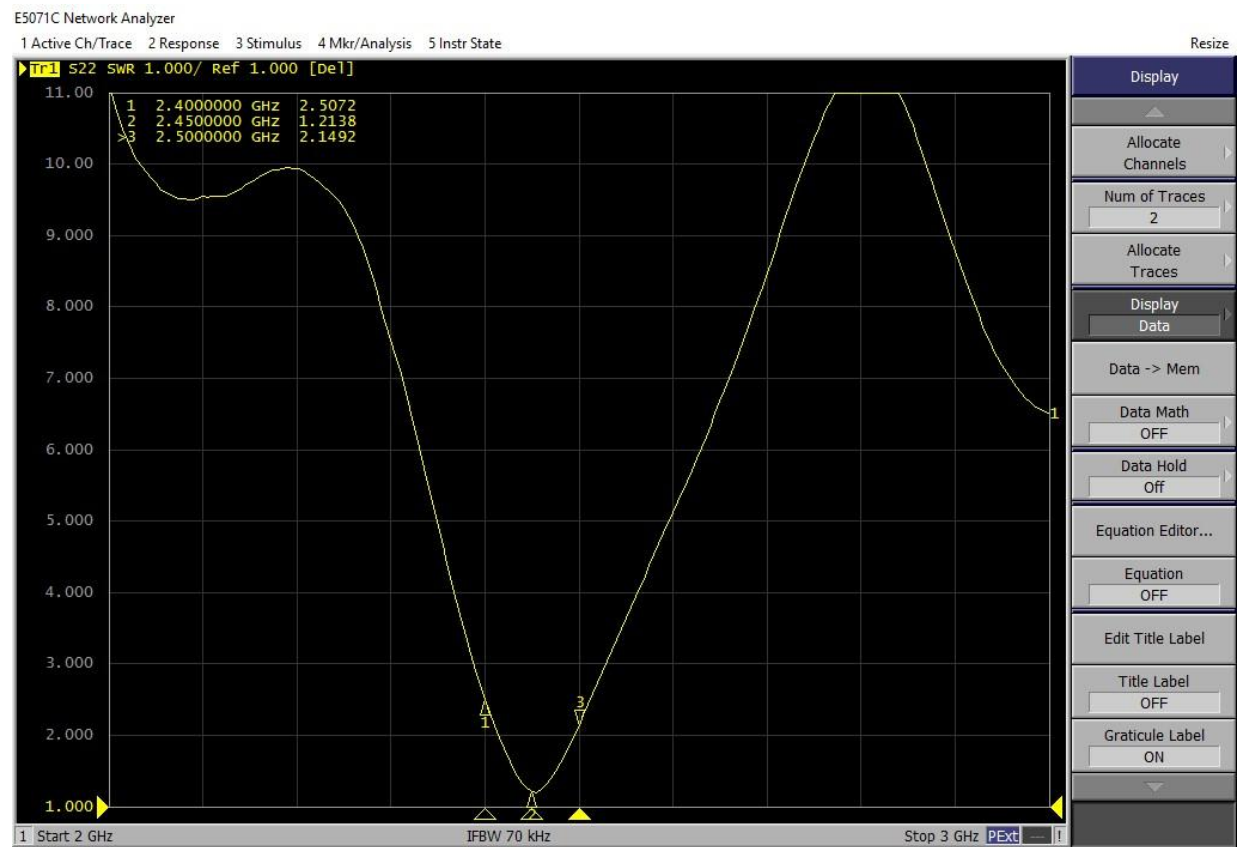
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic
Atmospher: 750mmkg±30mmkg	chamber

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2450	2500
ReturnLoss	-7.36	-20.47	-8.75
VSWR	2.50	1.21	2.14



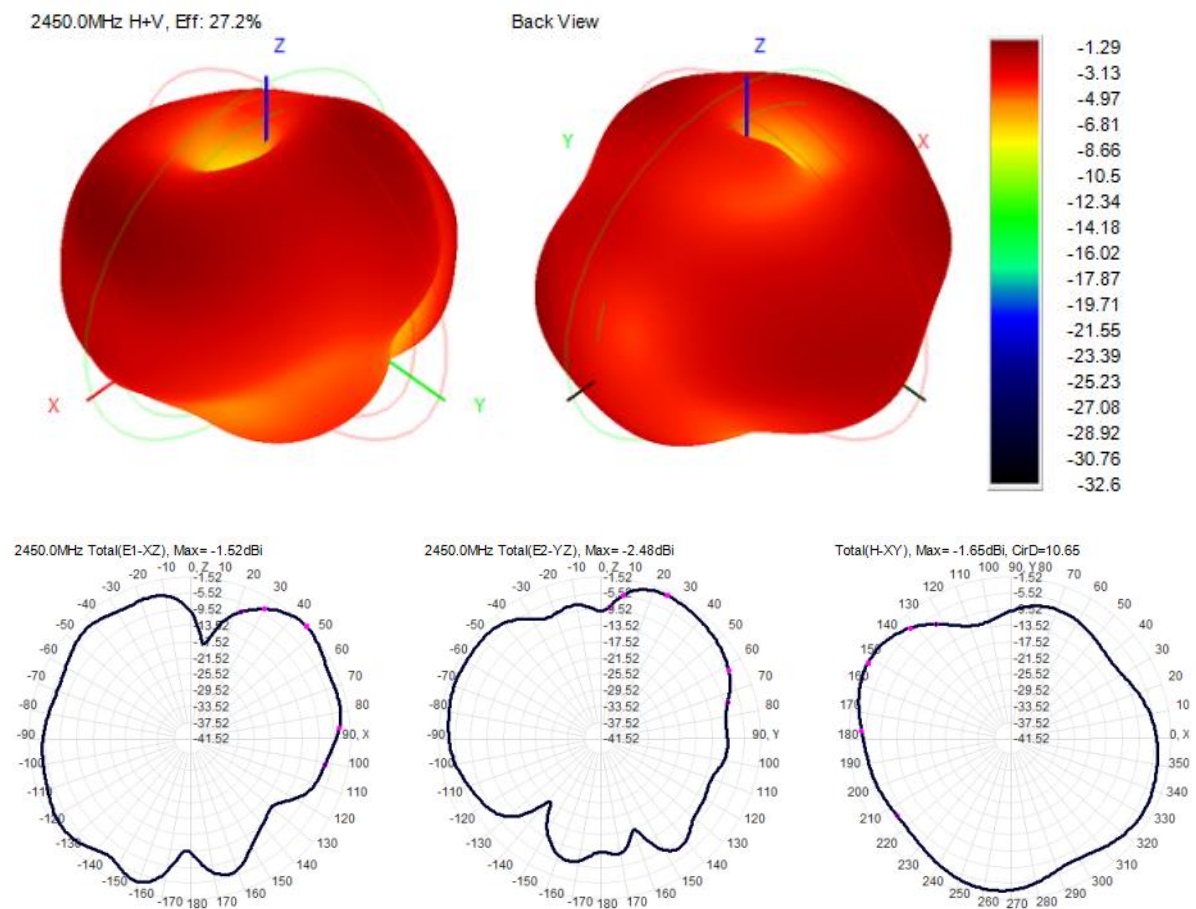


4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-2.44	-2.44	-2.08	-1.68	-1.48	-1.29	-1.13	-1.25	-1.50	-1.68	-1.54
Efficiency (%)	20.78	21.35	22.30	23.49	25.57	27.21	27.85	27.33	25.98	24.71	23.94

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	2025/10/11
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/10/11	1.00	New Project