



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2.4G Antenna

Customer No.

Product No.

SD602-2.4G-FPC-400MM

Author: XiaofengZeng Review: Liming

Release Date: 2025.11.17

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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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	SD602
2	Operating Frequency Band	2.4~2.5GHz
3	VSWR	≤ 2.0
4	Impedance	50 Ω
5	Antenna Type	Dipole
6	Antenna composition	FPC
7	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	FPC	42.10*11.9 BLACK
2	CABLE	IPEX-1 ϕ 1.13 L=400 BLACK

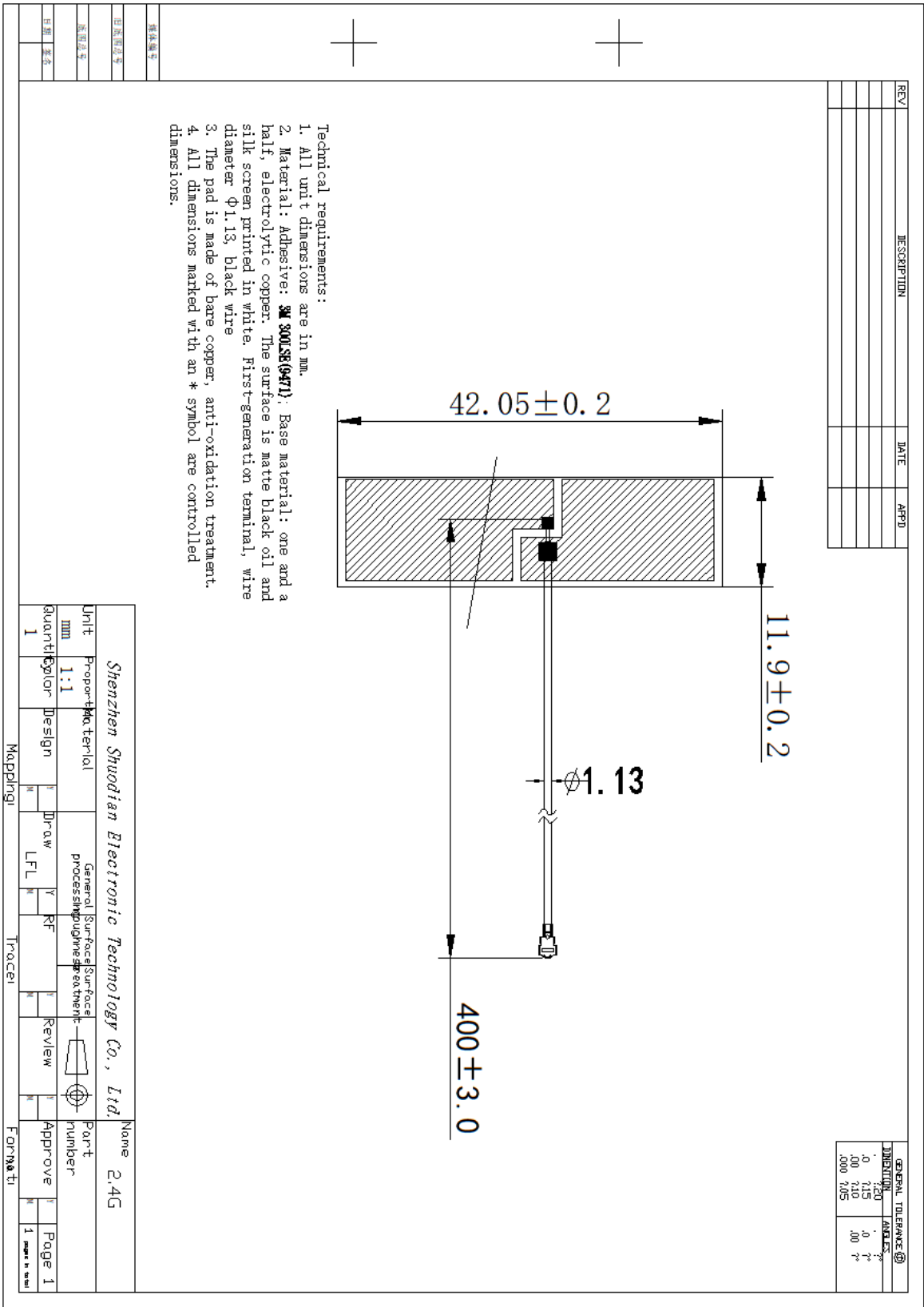
4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Product drawings:

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4.2 Electric Performance

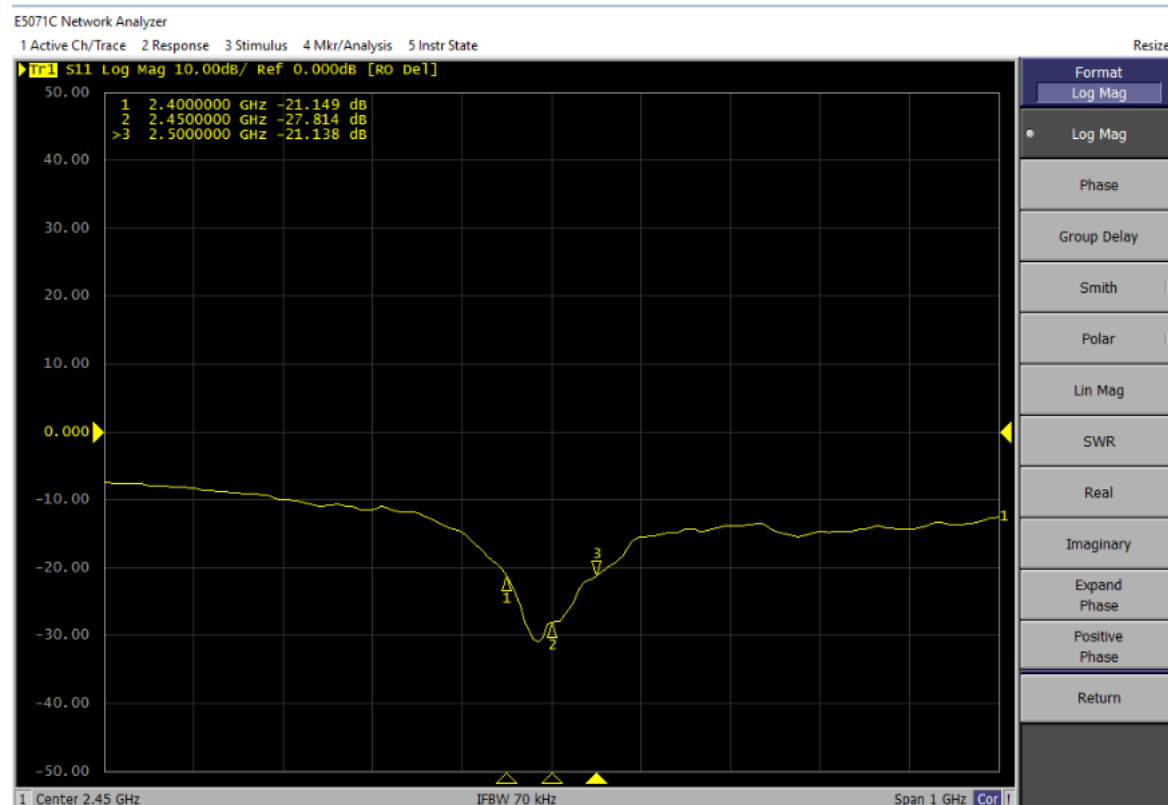
4.21 Test condition

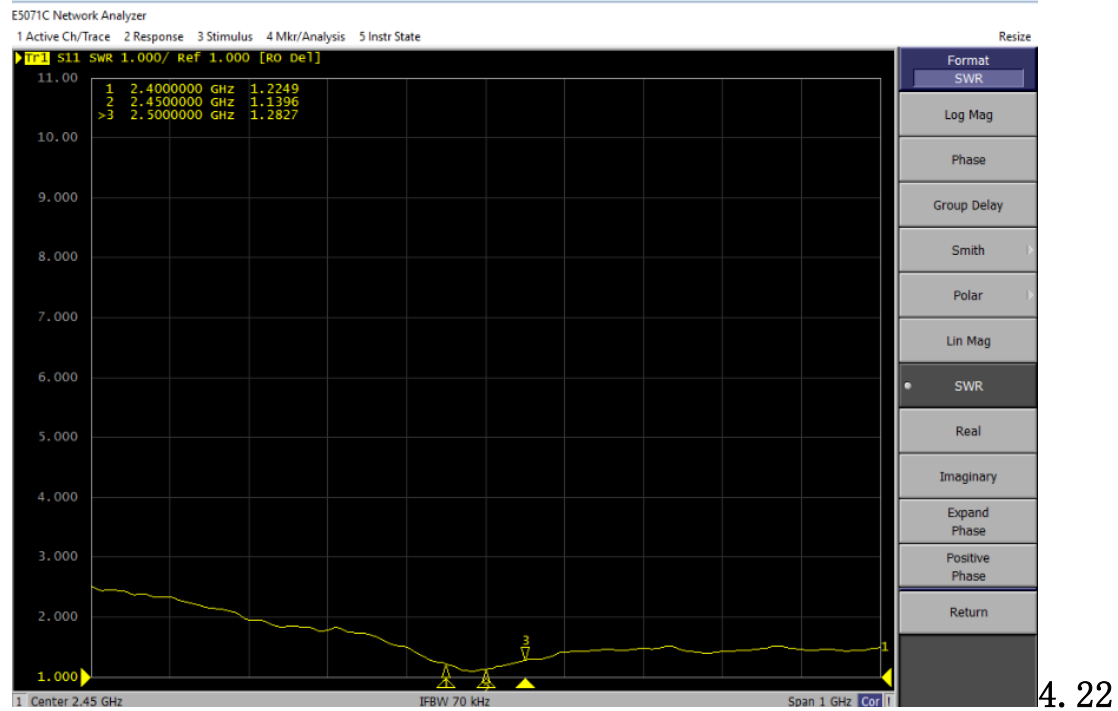
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer:KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Anechior Chamber: ETS
Atmospher: 750mmkg ±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2450	2500
Returnloss	-21.14	-27.81	-21.13
VSWR	1.22	1.13	1.22

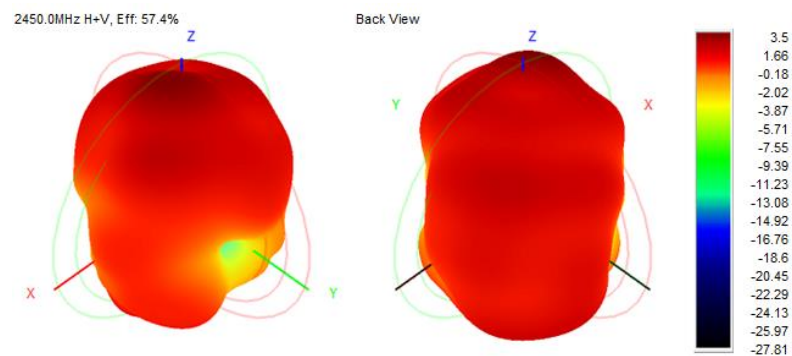


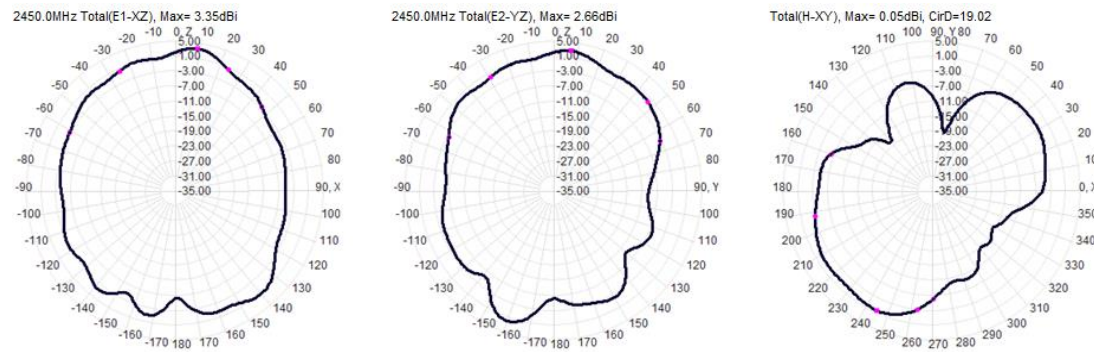


. 2 Passive gain、 efficiency and Radiation Pattern:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	2.42	2.45	2.44	2.65	3.04	3.50	3.87	4.11	4.07	3.95	3.77
Efficienc (%)	53.8	54.2	54.4	55.1	56.1	57.3	57.8	57.6	56.2	55.9	56.2

2450MHz:





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 200 pcs each.



6. Document Resume

Document No.	
Release Date	2025/11/17
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/11/17	1.00	New Project