



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2.4-5.8GHZ glue stick antenna

Customer No.

Product No.

SD0603-2.4-5.8G blade glue stick antenna-199MM

Author: XiaofengZeng Review: Liming

Release Date: 2025.04.14

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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 2.4-5.8G glue stick 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	glue stick antenna
2	Operating Frequency Band	2400-2500MHz&5100-5900MHz
3	VSWR	≤ 3.0
4	GAIN	$3.5 \pm 0.5\text{dBi}$
5	Impedance	50Ω
6	Antenna Type	Dipole
7	Antenna composition	external antenna
8	Entity Picture	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

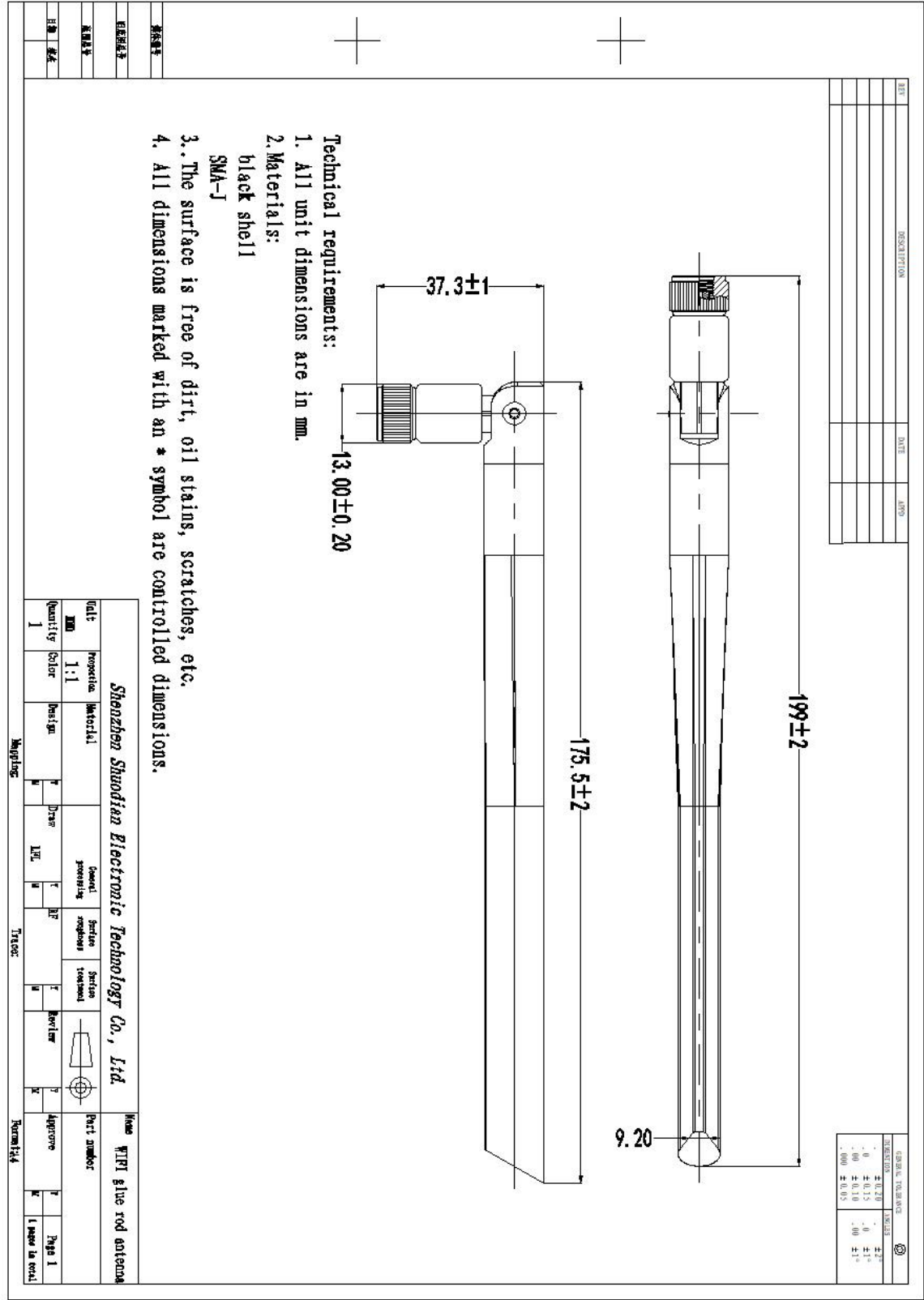
No.	Material	Size (MM)
1	TPE plastic shell + SMA connector	199*13 SMA-J

4.12 Apperance

Good appearance without scars 、 dirts、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Productdrawings:





4.2 Electric Performance

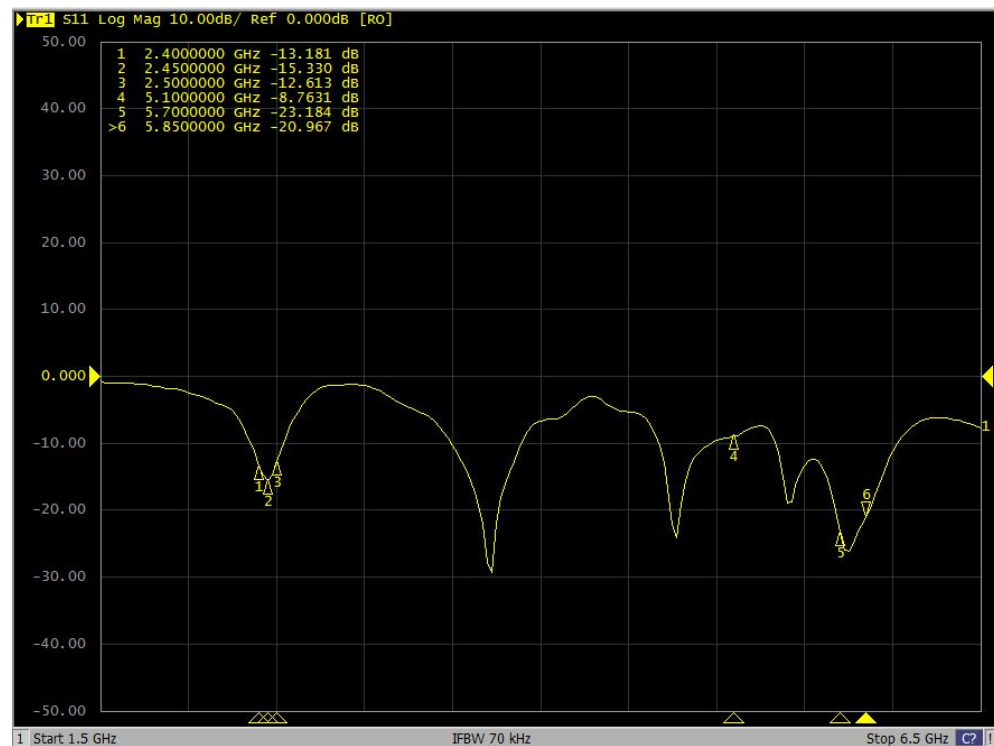
4.21 Test condition

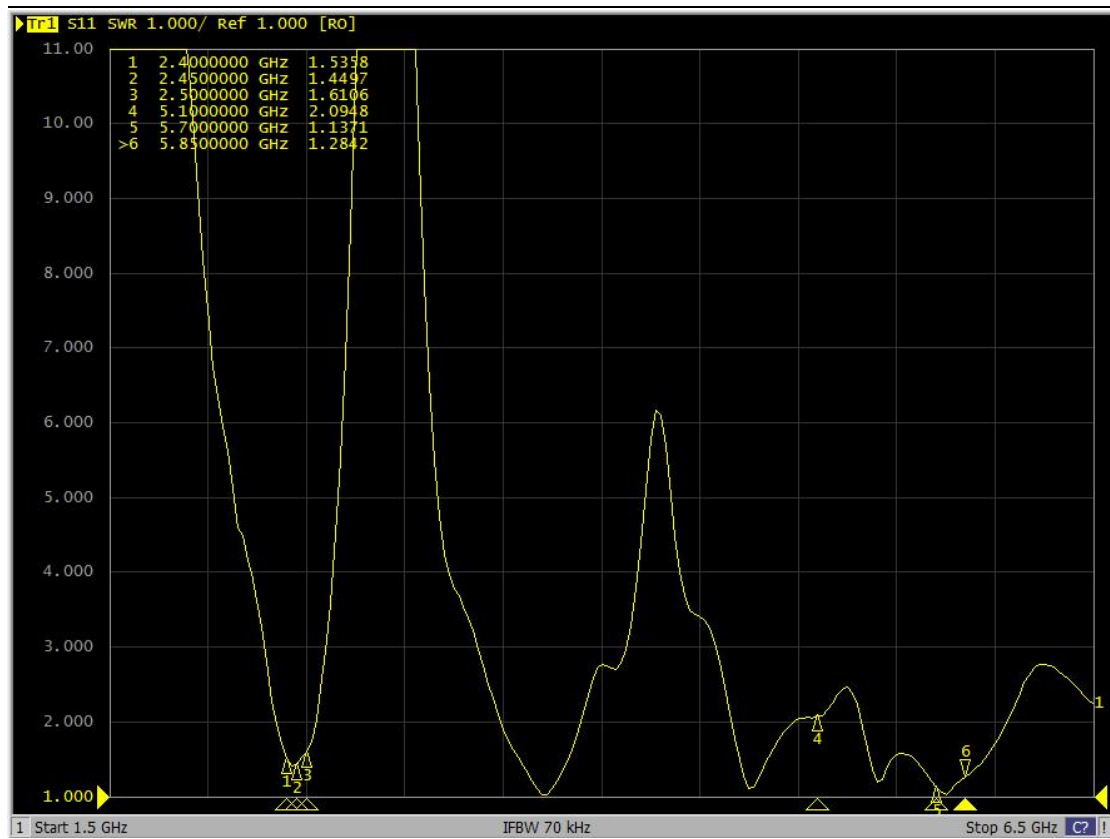
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer: KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	Multi-probe microwave anechoic chamber
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Frequency (MHz)	2400	2450	2500	5100	5700	5850
Return Loss	-13.18	-15.33	-12.61	-8.76	-23.18	-20.96
VSWR	1.53	1.44	1.61	2.09	1.13	1.28





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

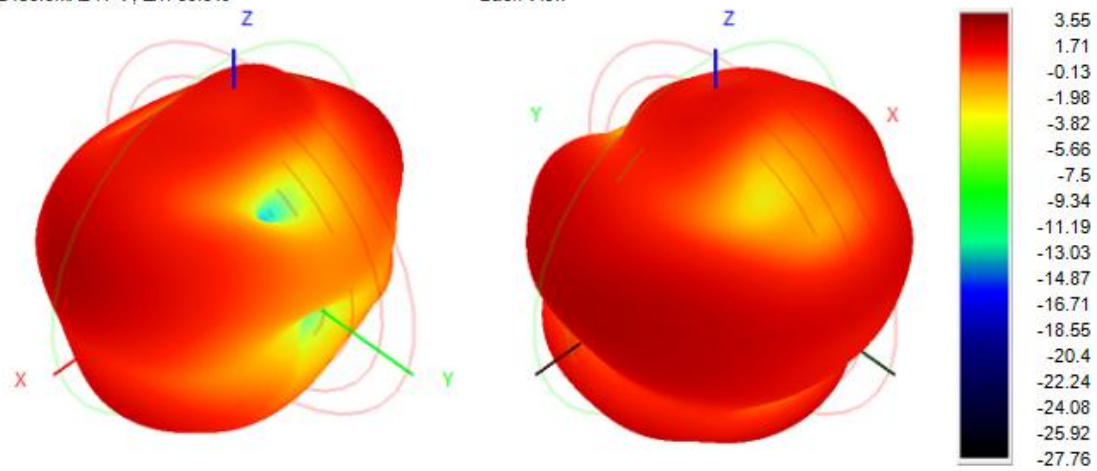
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	3.46	3.40	3.31	3.36	3.49	3.55	3.66	3.90	3.95	4.11	4.00
Efficiency (%)	64.79	66.58	66.95	68.04	68.90	68.91	68.22	67.38	64.03	63.83	61.87
Frequency (MHz)	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500
Gain (dBi)	2.72	2.23	2.90	3.08	3.26	3.71	3.74	4.34	3.92	4.18	3.94
Efficiency (%)	60.71	56.13	57.33	59.76	59.28	61.37	59.49	64.56	61.58	67.37	68.45
Frequency (MHz)	5550	5600	5650	5700	5750	5800	5850	5900	5950	6000	
Gain (dBi)	4.00	3.56	3.78	3.60	3.38	4.10	3.53	3.41	3.49	3.26	
Efficiency (%)	65.04	64.52	63.08	63.82	61.05	64.49	61.92	60.13	60.53	57.44	

Radiation Pattern 2450MHz

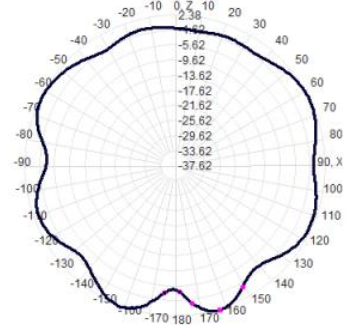


2450.0MHz H+V, Eff: 68.9%

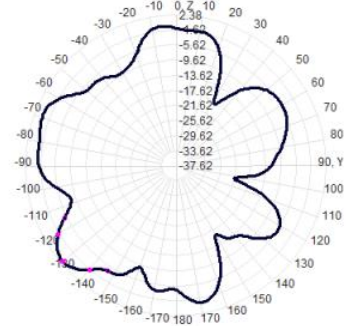
Back View



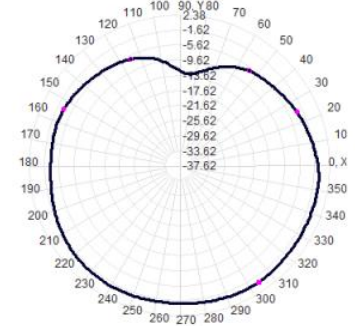
2450.0MHz Total(E1-XZ), Max= 2.38dBi



2450.0MHz Total(E2-YZ), Max= 1.61dBi



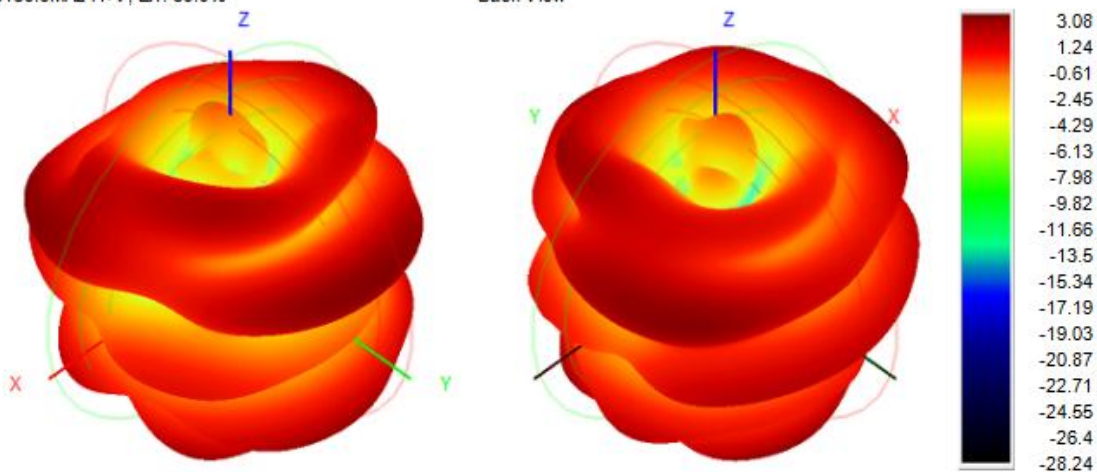
Total(H-XY), Max= -0.41dBi, CirD=12.77

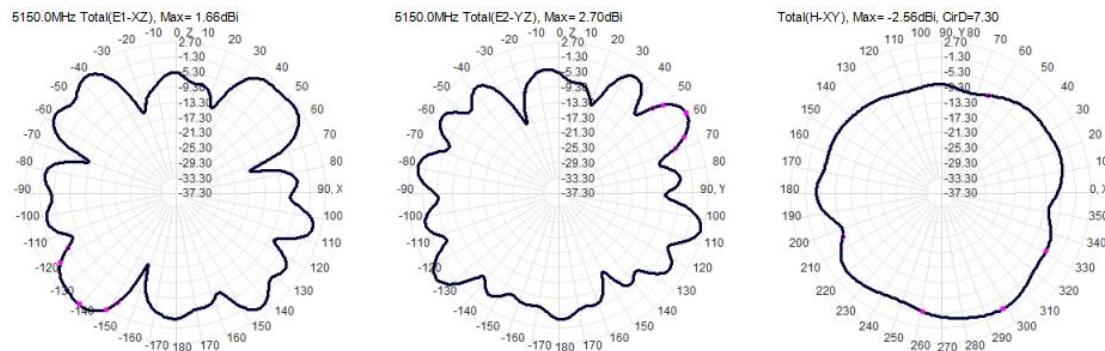


5150MHz

5150.0MHz H+V, Eff: 59.8%

Back View

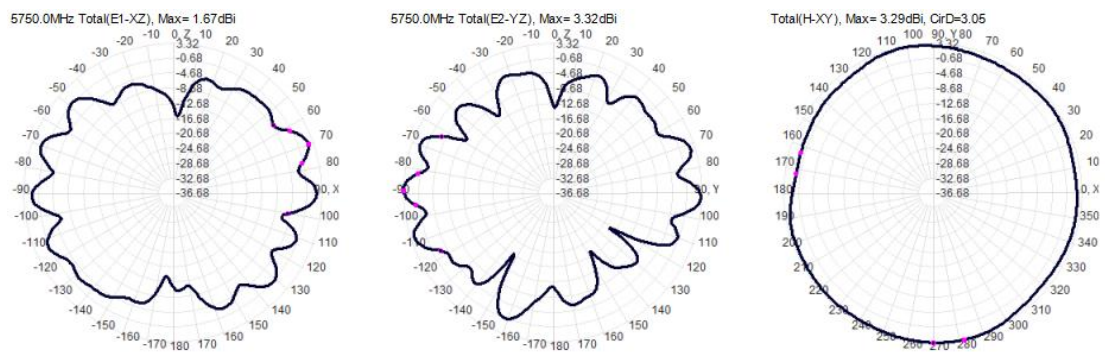
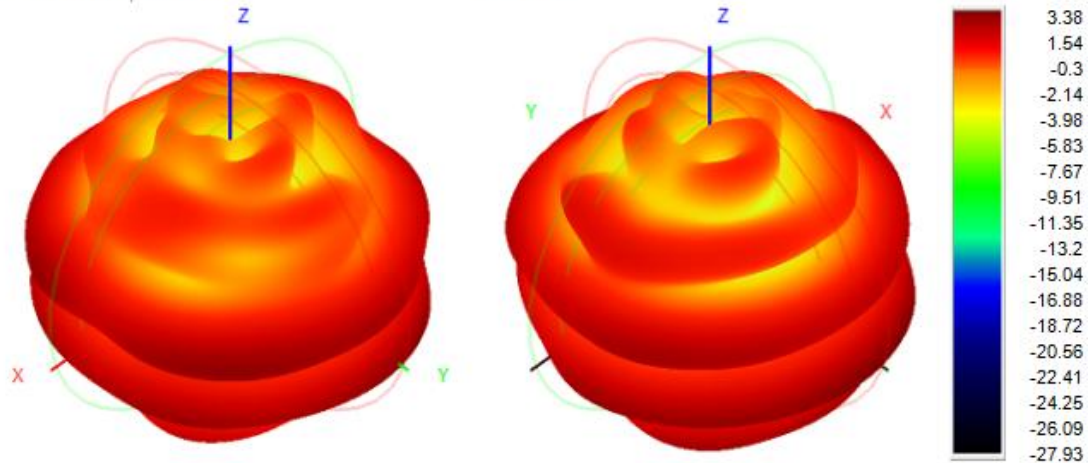




5750MHz

5750.0MHz H+V, Eff: 61.1%

Back View





5. Product Packaging

Manner of packing:

Packed in self sealed bags, 50 pcs each.

6. Document Resume

Document No.	
Release Date	2025/4/14
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2025/4/14	1.00	New Project