

Specification

for

**2DBi 2.4G–5.8G Dual-Frequency Rubber Rod
Antenna**

Customer Material Number

Our company's material code:

2.4G–5.8G Dual-Band Rubber Rod Antenna

prepared by: Zeng Xiaofeng reviewed by: Wen Shihao

Date: 2022.09.20

Shenzhen Yixin Electronic Technology Co., Ltd.

1212, Block A, Huafeng Headquarters Economic Building, No.288 Xixiang Avenue, Xixiang
Street, Bao'an District, Shenzhen
Email: 1791995010@qq.com

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1. Both Parties Confirm

1.1 Customer Confirmation Signature

client :

Customer Department/Position	Confirming Person's Signature	Confirmation Date
Hardware/Radio Frequency		
Structure		
Project manager		
Business/Purchasing		
Examine and verify		

1.2 Yixin Electronics Has Confirmed and Signed the Document.

Department/Position	Confirming Person's Signature	Confirmation Date
Antenna Engineer		
Construction engineer		
Project manager		
QA		
Examine and verify		

2. General Matters

2.1 Scope of Application

Little S Glue Stick WIFI Antenna

2.2 Usage Temperature Range

The product is suitable for use within a temperature range of -20 to +65 °C.

2.3 Storage Temperature Range

This product should be stored at -30 to +75 °C.

3. General Product Specifications

NO.	ITEMS	DETAILS
1	Type	
2	Frequency range	2.4~2.5G/5.1~5.9G
3	VSWR	≤ 2.0
4	Gain	$3.0 \pm 0.5 \text{dBi}$
5	Radiation Efficiency	$\geq 50\%$
6	Impedance	50Ω
7	Antenna Type	Dipole
8	Form of Antenna Implementation	Rubber rod antenna
9	Antenna Image	

4. Product Specification Details

4.1 Product Structural Parameters

4.11 Product Material Composition:

Order number	Material	Specifications (MM)
1	Glue stick	Φ 10*110MM

4.12 Surface

The product exhibits an excellent appearance, free from defects such as scars, sweat stains, or protrusions that would significantly compromise its visual quality.

4.13 Structure Size

Reference Product Drawing:

product drawing :

4. 2 Product Electrical Performance Test Data

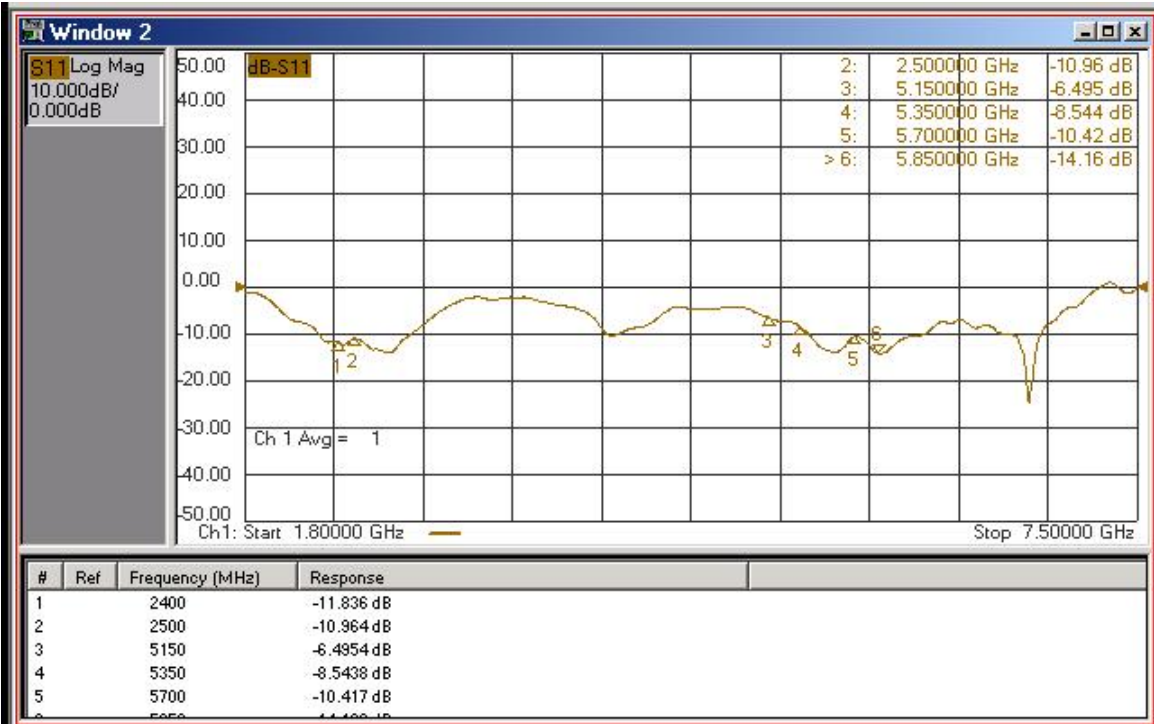
4.21 Testing Environment and Equipment

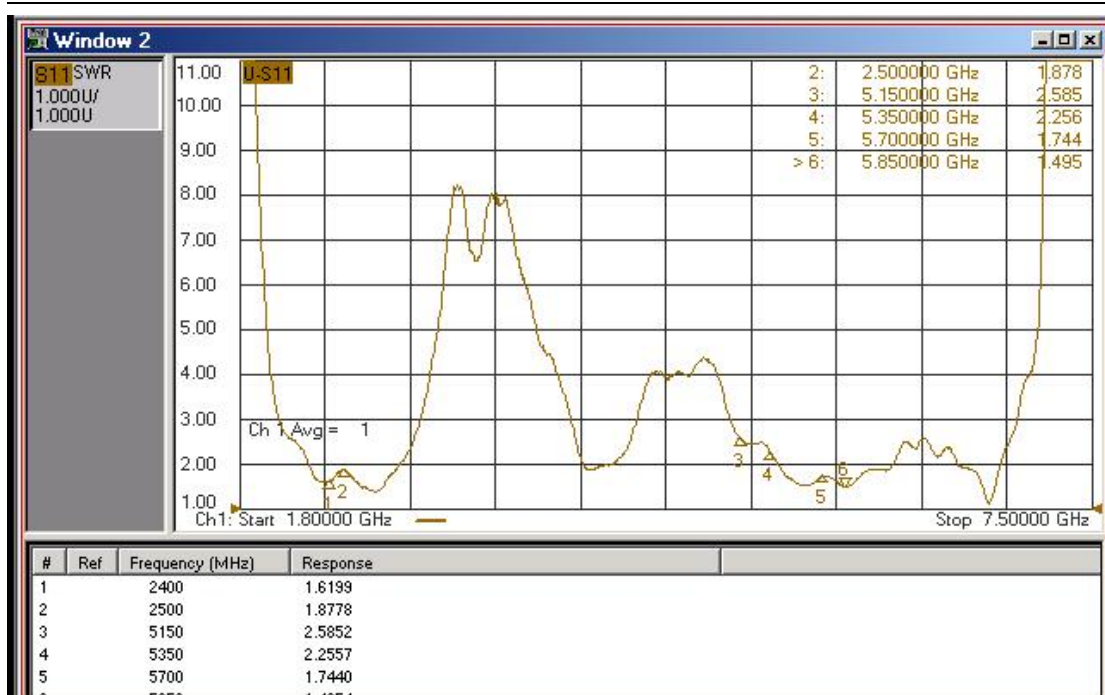
Testing environment :	Testing facility :
Temperature : 10°C——+30°C	Network Analyzer:
Relative humidity: ≤80% (+40°C)	Agilent T E8358A ETS
Atmospheric pressure: 750 mmHg ± 30 mmHg	Microwave Dark Ch-amber

4.22 Product Electrical Performance

Test Data:4.22.1 Antenna S11 Diagram:

Marker (MHz)	2400	2500	5150	5350	570Hz	5850
Returnloss	-11. 8	-10. 9	-6. 5	-8. 5	-10. 4	-14. 1
VSWR	1. 62	1. 88	2. 58	2. 25	1. 74	1. 49



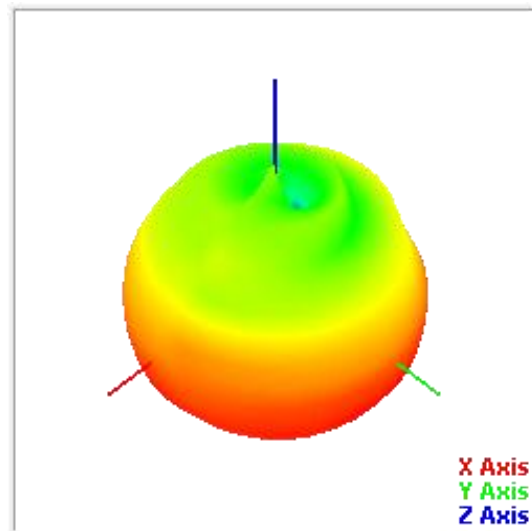


4.22.2 Antenna Gain Efficiency:

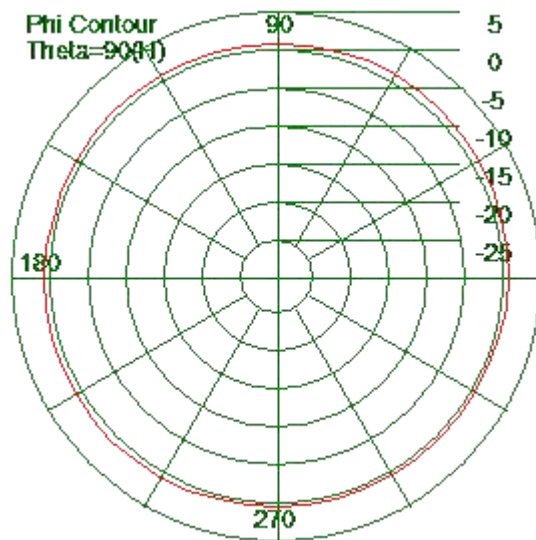
Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.7	64.9
2410.0	2.56	63.7
2420.0	2.43	63.2
2430.0	2.06	59.4
2440.0	2.09	61.8
2450.0	2.13	63.7
2460.0	2.32	67.3
2470.0	2.45	69.0
2480.0	2.57	70.3
2490.0	2.78	73.9
2500.0	2.87	74.5
5150.0	0.96	42.3
5200.0	1.91	49.8
5250.0	2.03	49.5
5300.0	2.30	55.5
5350.0	2.33	54.6
5700.0	3.82	45.1
5750.0	4.93	47.2
5800.0	5.05	48.5
5850.0	6.04	50.5
5900.0	5.70	53.8

4.22.3 Antenna Radiation Pattern:

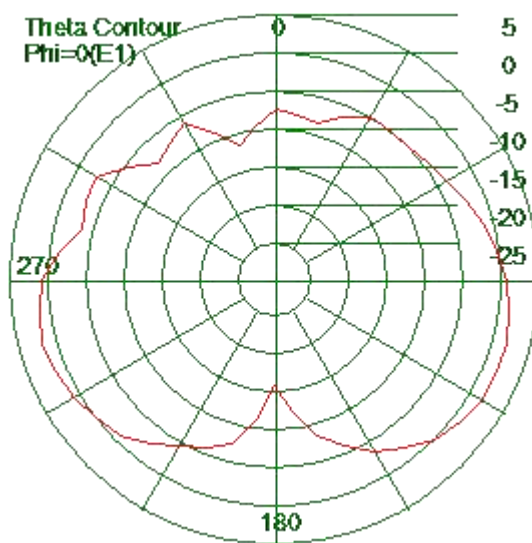
Frequency: 2450 MHz



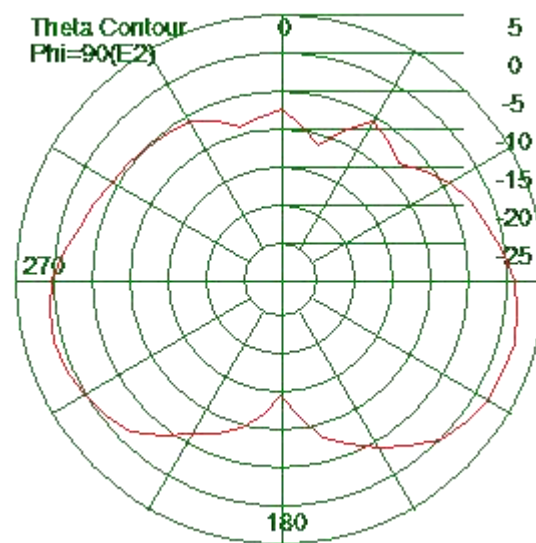
3D



Face H

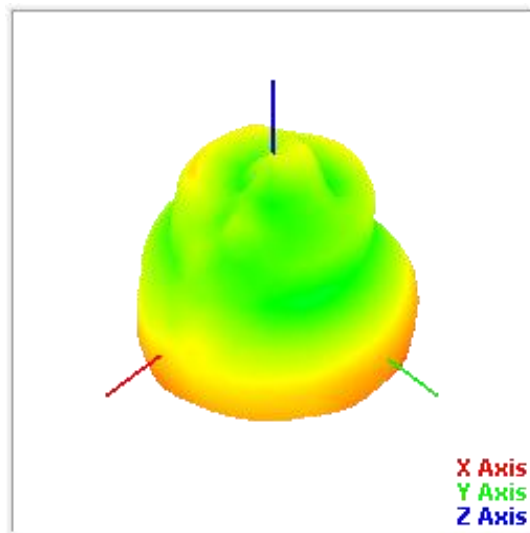


E1 Surface

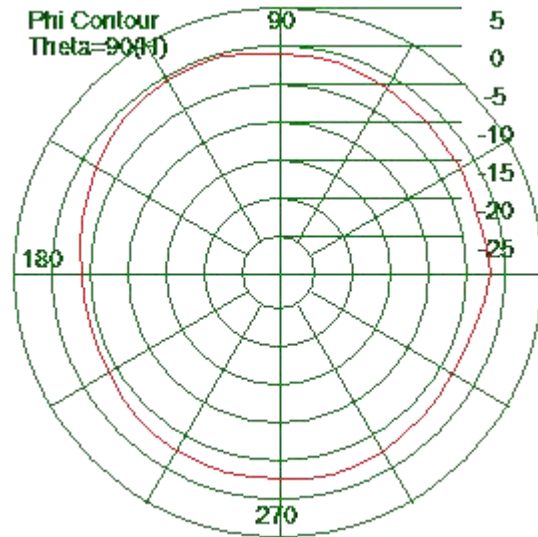


E2 Surface

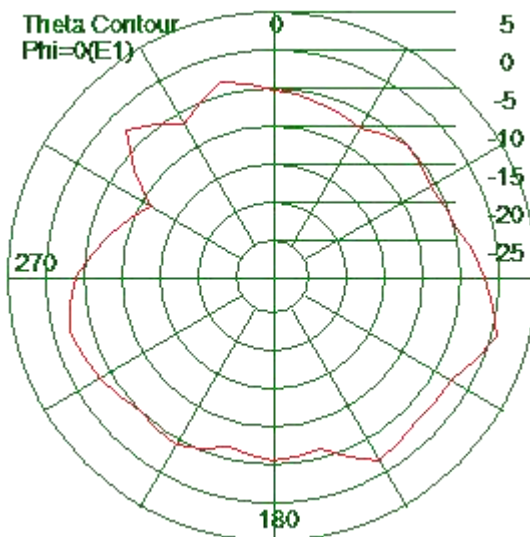
Frequency: 5150 MHz



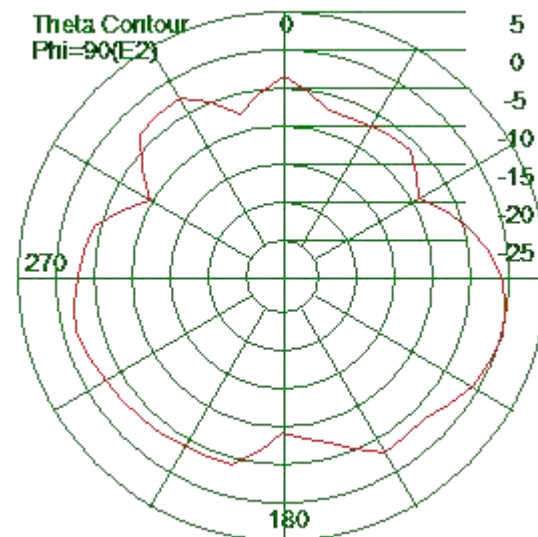
3D



Face H

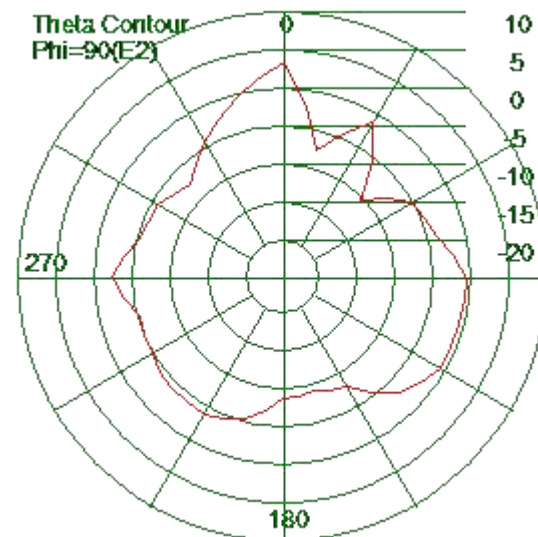
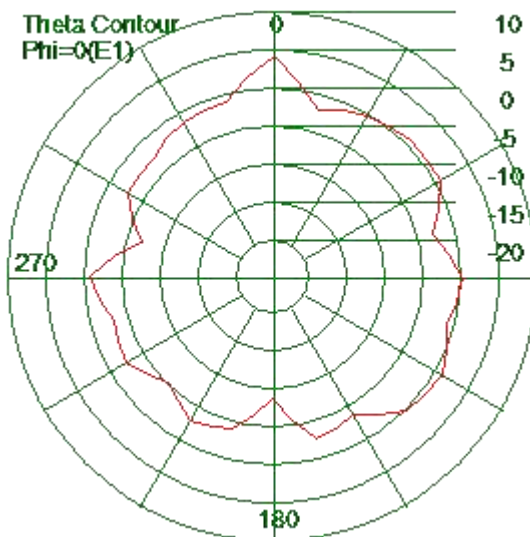
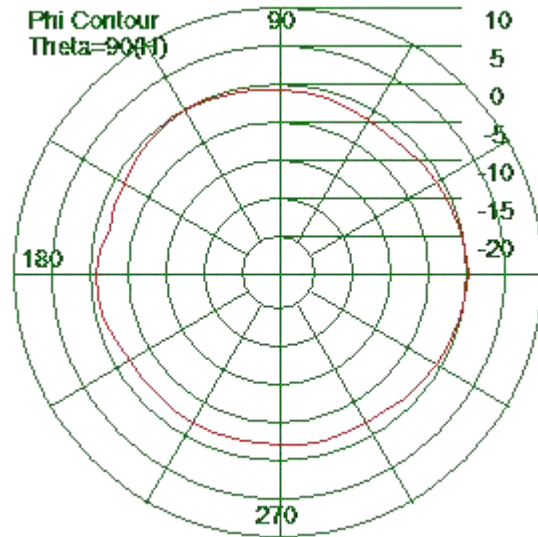
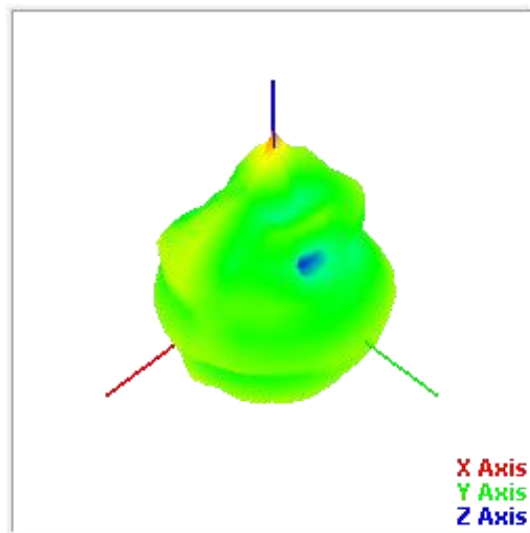


E1 Surface



E2 Surface

Frequency: 5850 MHz



Note: The antenna rubber rod is placed parallel to the Z-axis.

5. Product Packaging Method

manner of packing :

Self-sealed packaging, 50 pieces per pack.

6. Document Profile

Document number Document No.	
Date Release Date	2022/09/20
Edit Author	Hungjie
Review	WH

File History Table

Revised History

Date	Version	Revised Record
2022/09/20	1.00	New Project