

Specification

for

2DBI 2.4G-5.8G Dual-Band Antenna

Customer Material Number

Our company's material code:

2.4G—5.8G Dual-Band Antenna

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Date: 2024.06.24

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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/Procurement		
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 with WIFI Antenna

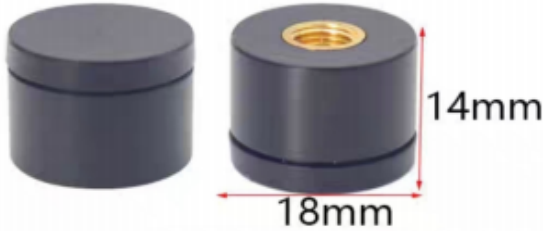
2.2 Usage Temperature Range

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	$2.0 \pm 0.5\text{dBi}$
5	Radiation Efficiency	$\geq 50\%$
6	Impedance	$50\ \Omega$
7	Antenna Type	Dipole
8	Form of Antenna Implementation	Rubber rod antenna
9	Antenna Image	

4. Product Specification Details

4.1 Product Structural Parameters

4.1.1 Product Material Composition:

Order number	Material	Specifications (MM)
1	Glue stick (available in black and white)	Φ 14*18MM

4.1.2 Surface

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

4.1.3 Structure Size

Reference Product Drawing:

product drawing :



4. 2 Product Electrical Performance Test Data

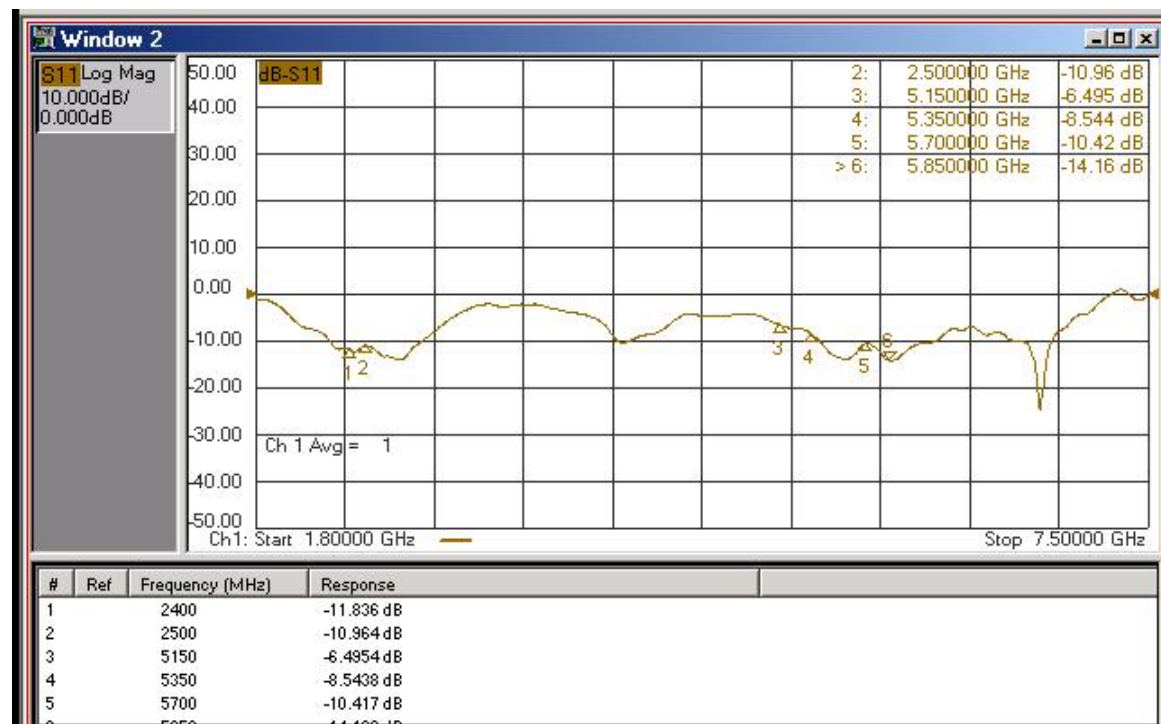
4.21 Testing Environment and Equipment

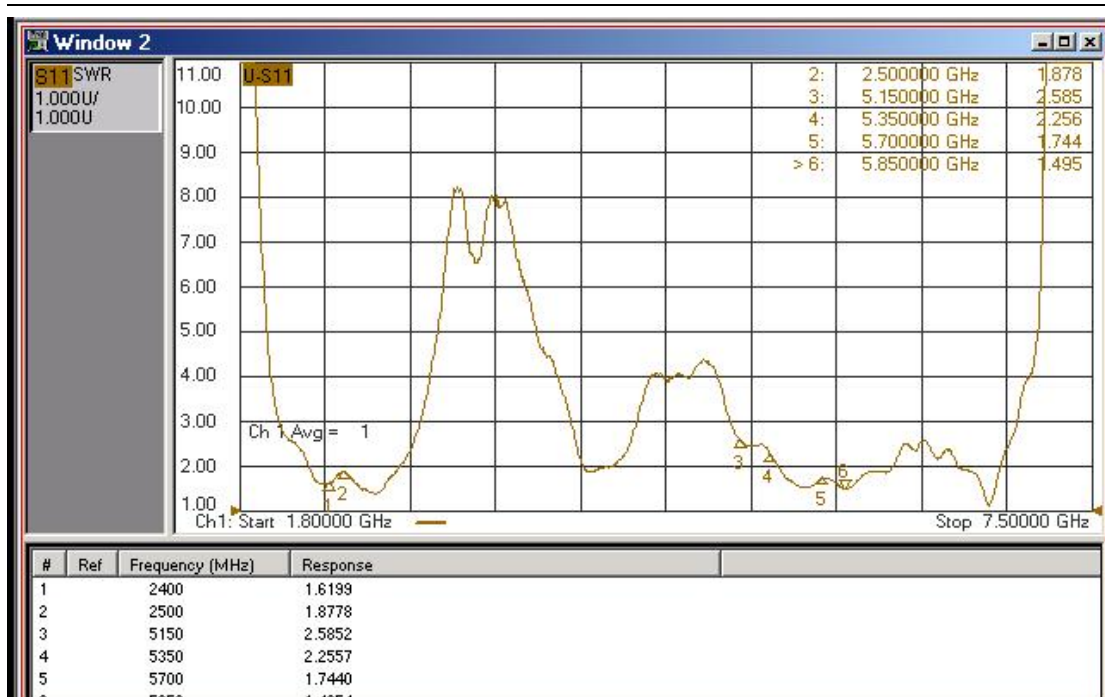
Testing environment :	Testing facility :
Temperature: 10℃——+30℃	Network Analyzer:
Relative humidity: ≤80% (+40℃)	Agilent T E8358A
Atmospheric pressure: 750mmkg ±30mmkg	ETS Microwave Dark Chamber

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



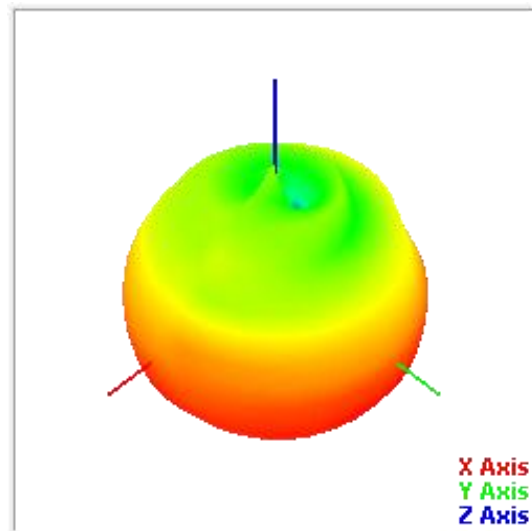


4.22.2 Antenna Gain Efficiency:

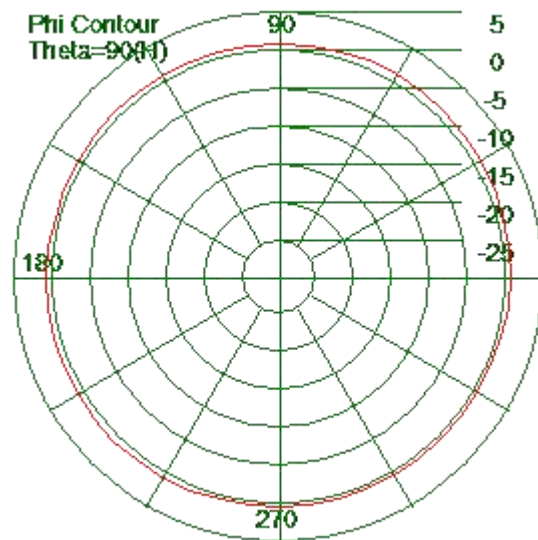
Freq. (MHz)	Gain (dBi)	Efficiency (%)
2400.0	2.7	64.9
2410.0	2.56	63.7
2420.0	2.43	63.2
2430.0	2.06	59.4
2440.0	2.09	61.8
2450.0	2.13	63.7
2460.0	2.32	67.3
2470.0	2.45	69.0
2480.0	2.57	70.3
2490.0	2.78	73.9
2500.0	2.87	74.5
5150.0	0.96	42.3
5200.0	1.91	49.8
5250.0	2.03	49.5
5300.0	2.30	55.5
5350.0	2.33	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:

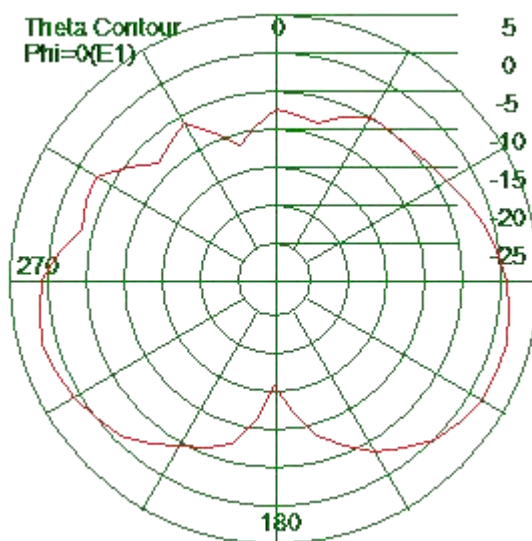
Frequency: 2450 MHz



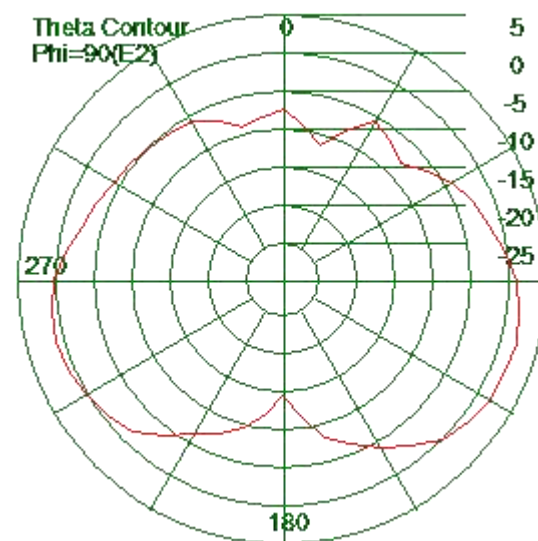
3D



Face H

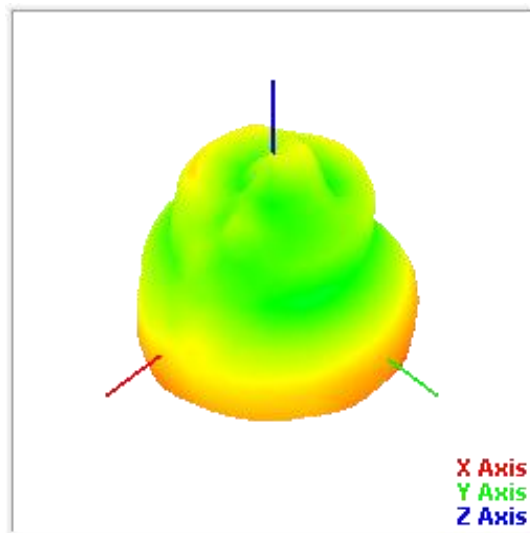


EL Surface

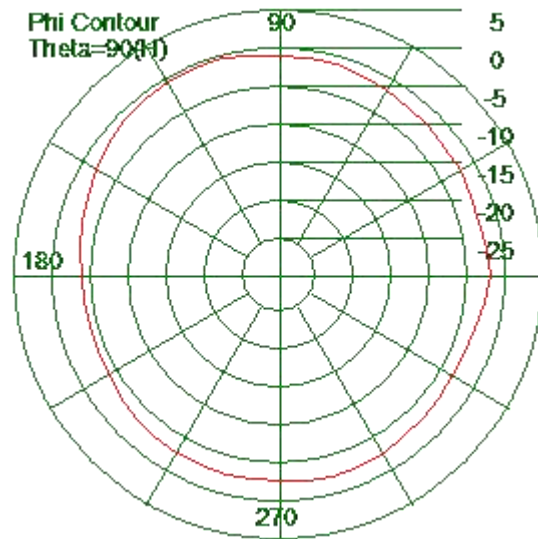


E2 Surface

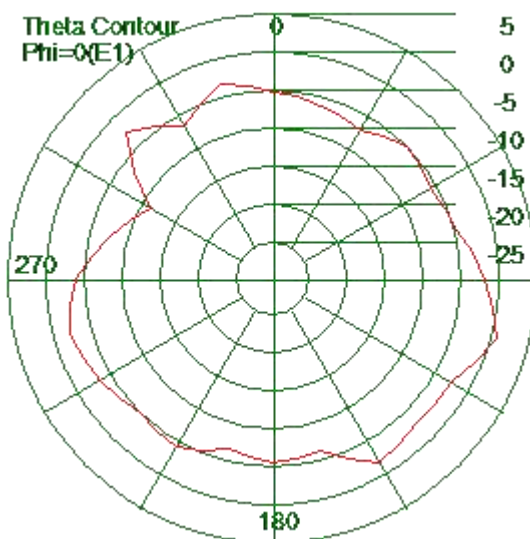
Frequency: 5150 MHz



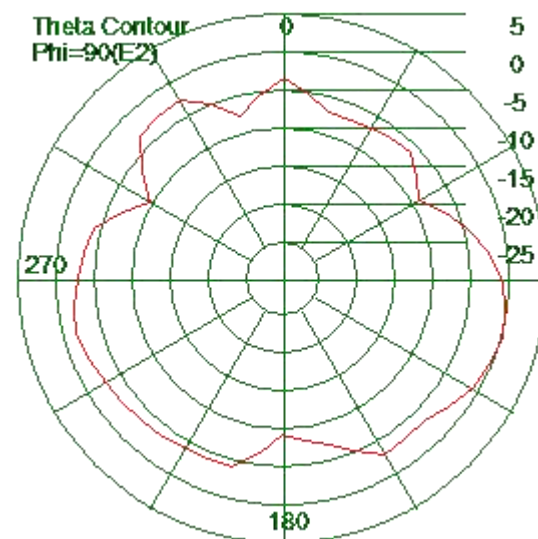
3D



Face H

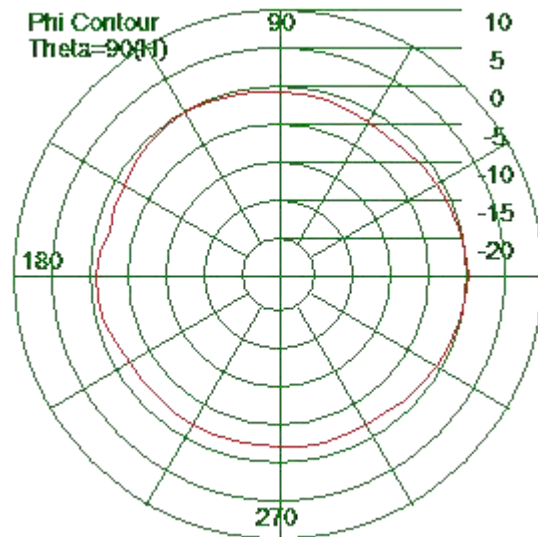
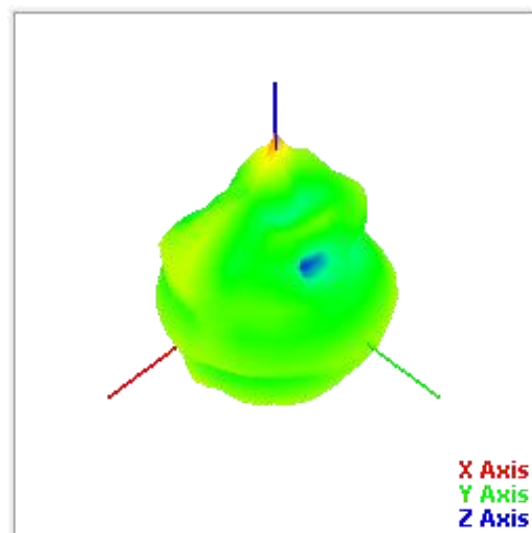


E1 Surface

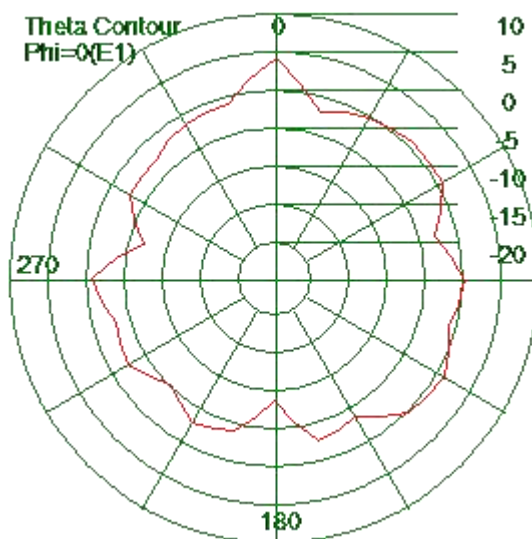


E2 Surface

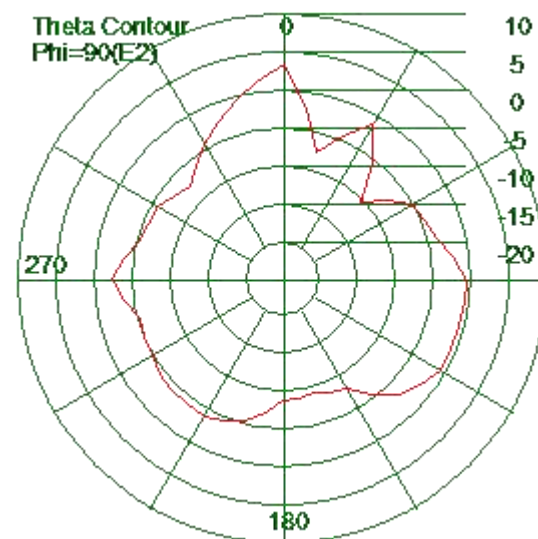
Frequency: 5850 MHz



Face H



E1 Surface



E2 Surface

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 History

Document number Document No.	
Date Release Date	2024/06/24
Author:	Hungjie
Review	WH

File History Table

Revised History

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