

SHENZHEN CHUFENG COMMUNICATION TECHNOLOGY CO.,LTD

PRODUCT SPECIFICATION

Product NO. : 51CM2.4G Elbow glue stick antenna

Customer name:

Customer P/N:   /  

Issue Date: 2022-10-24

Checked	<b>Yanlong Lu</b>	Prepared	/
Customer Approve			
Department			
Signature			

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## Catalogue

### Specification

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1. Be confirmed by both sides

1.1 Customer confirmation signature

customer:

Customer department/position	Signature of confirming person	Confirmation date
Hardware/RF		
Construction		
Project manager		
Business/shopping		
check		

1.2 CHUFENG Communication confirmation signature

Department/Position	Signature of confirming person	Confirmation date
Antenna Engineer		
Structural Engineer		
Project manager		
QA		
check		

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## 2. General matters

### 2.1 Application

2.4 WIFI antenna

### 2.2 Operating temperature range

The temperature range of this product is  $-20^{\sim}+75$  °C

### 2.3 Storage temperature range

This product is stored at  $-30 - +60$  °C

### 3. General Product Specification

NO.	ITEMS	DETAILS
1	Type	Glue stick 2.4WIFI
2	Frequency band	2400-2500MHZ
3	VSWR	<1.8
4	GAIN	2dBi
5		50Q
6	Type of antenna	Glue stick antenna
7	Antenna implementation	Glue stick
8	Aerial images	

### 4. Product Specification Details

4.1 Product structure parameter

4.11 Product material composition

:

Serial number	materials	Specification (MM)
1	Aerial+Splice	51MM/SMAMale head male needle elbow

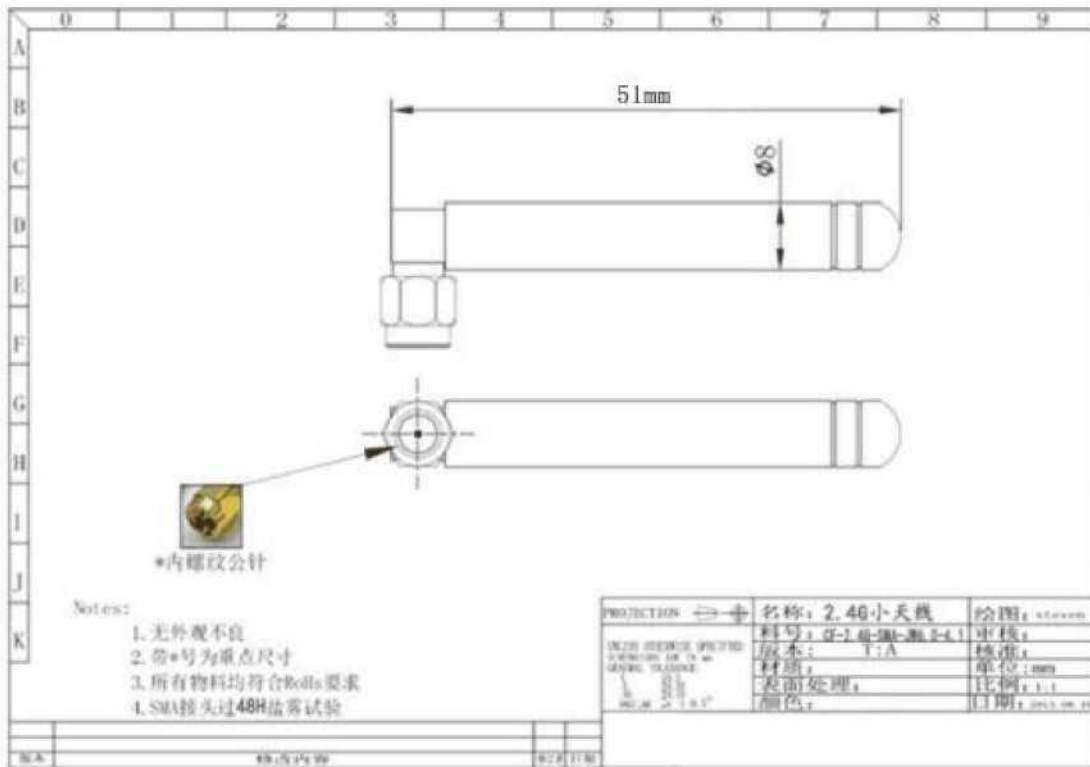
4.12 Appearance

The appearance of the product is good, without scars, sweat marks, protrusions and other defects that seriously affect the appearance.

4.13 Structure size

- Refer to product drawings:

Product drawing:



#### 4.2 Product electrical performance test data

##### 4.2.1 Test environment and equipment

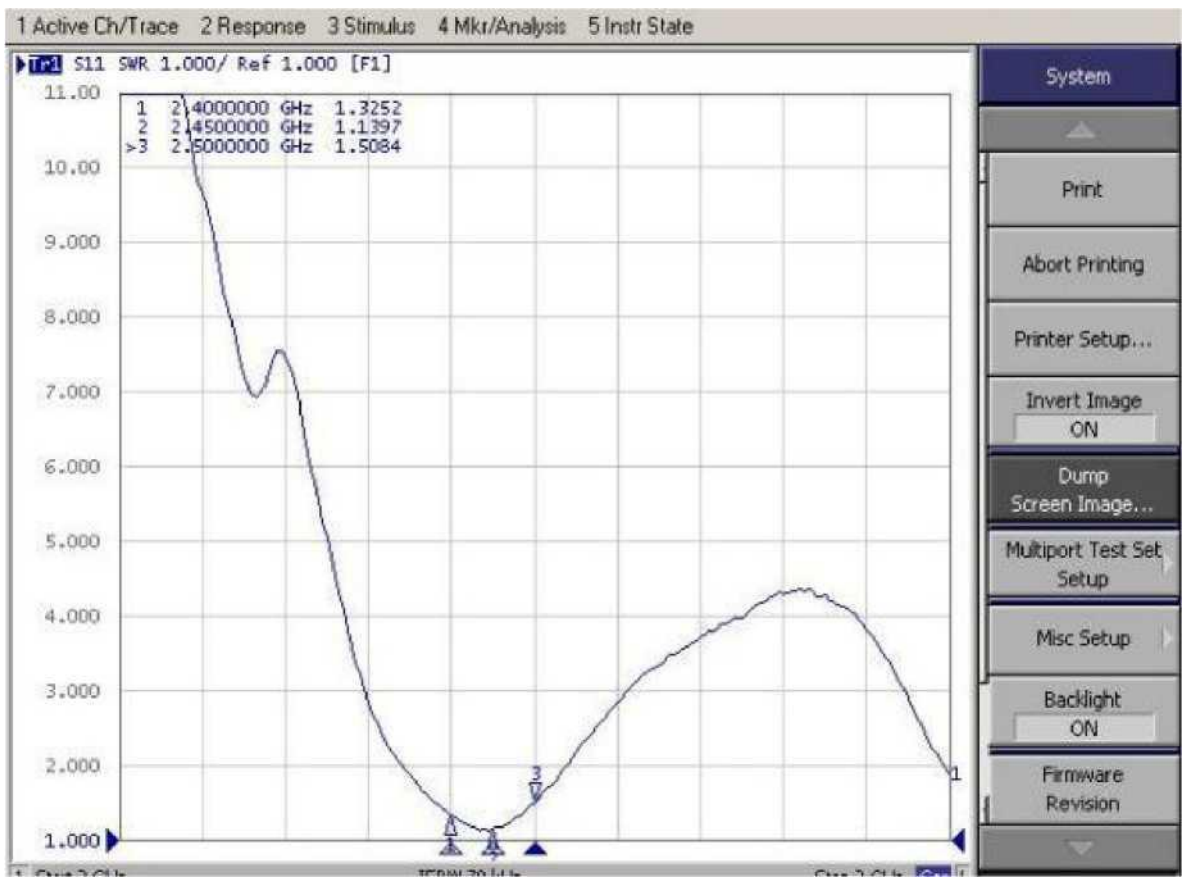
<p>Test environment:</p> <p>temperature: 10°C——+30°C</p> <p>RH: ≤80% (+40°C)</p> <p>Atmospheric pressure: 750mmkg ± 30mmkg</p>	<p>Test equipment:</p> <p>HP8753D VNA</p> <p>ETS anechoic chamber</p>
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##### 4.2.2 Product electrical performance test data:

S11 diagram of the product:

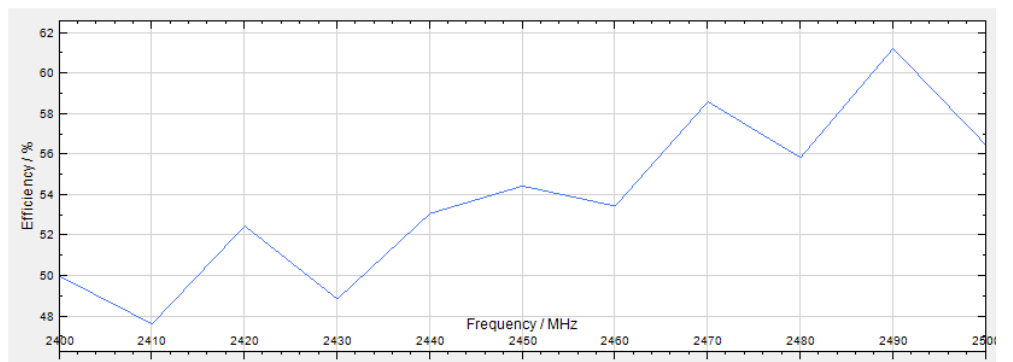
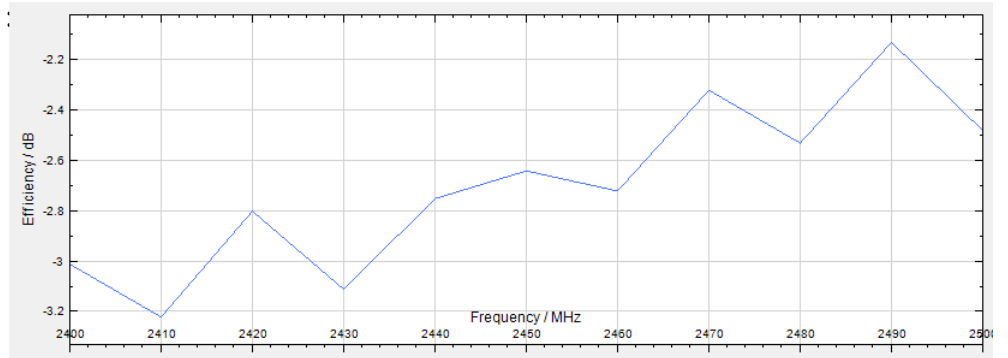
(The single antenna test is not in the whole machine)

Marker	2400MHz	2500MHz	5100MHz	5700MHz	5900MHz
Return Loss	-18.2	-18.1	-12.3	-13.9	-18.7
VSWR	1.2	1.2	1.6	1.5	1.2



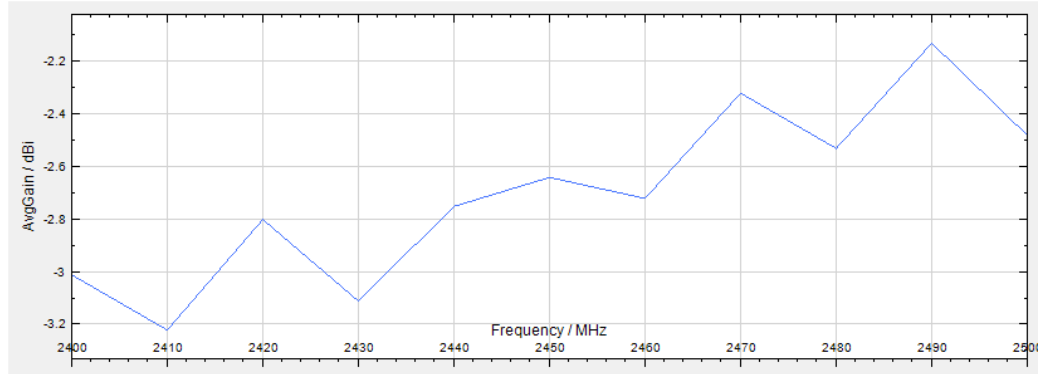
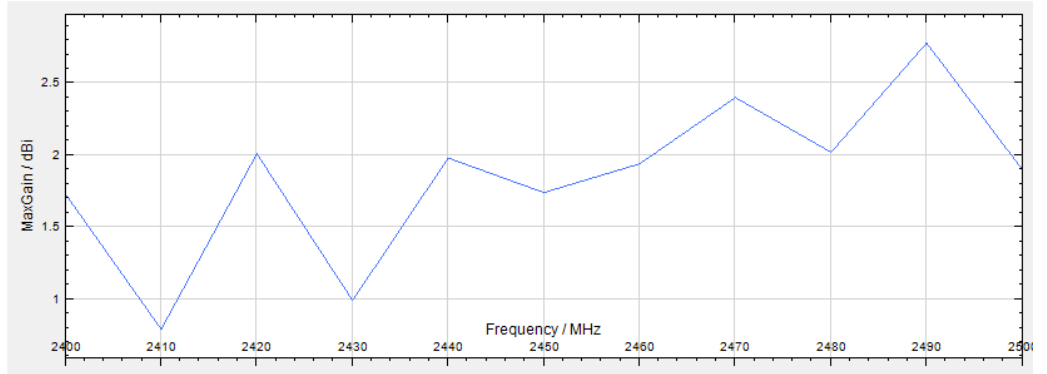
#### 4.3 Product efficiency test data

Frequency / Mhz	Efficiency / dB	Efficiency / %
2400	-3.01	50
2410	-3.22	47.64
2420	-2.8	52.48
2430	-3.11	48.87
2440	-2.75	53.09
2450	-2.64	54.45
2460	-2.72	53.46
2470	-2.32	58.61
2480	-2.53	55.85
2490	-2.13	61.24
2500	-2.48	56.49



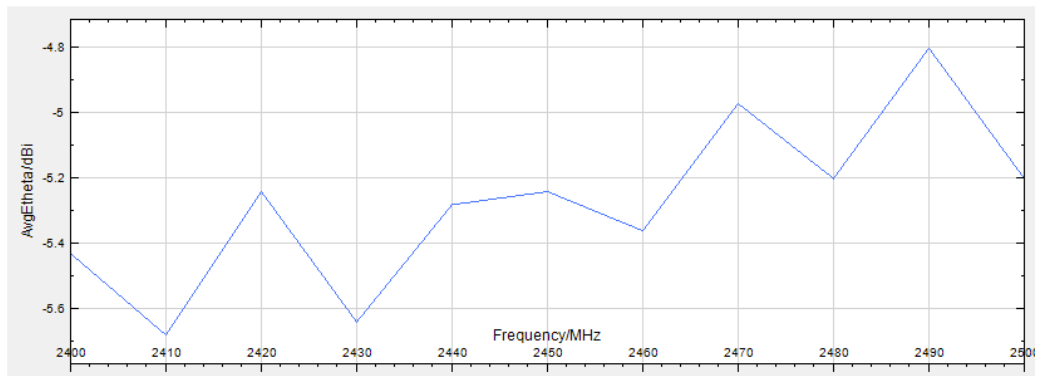
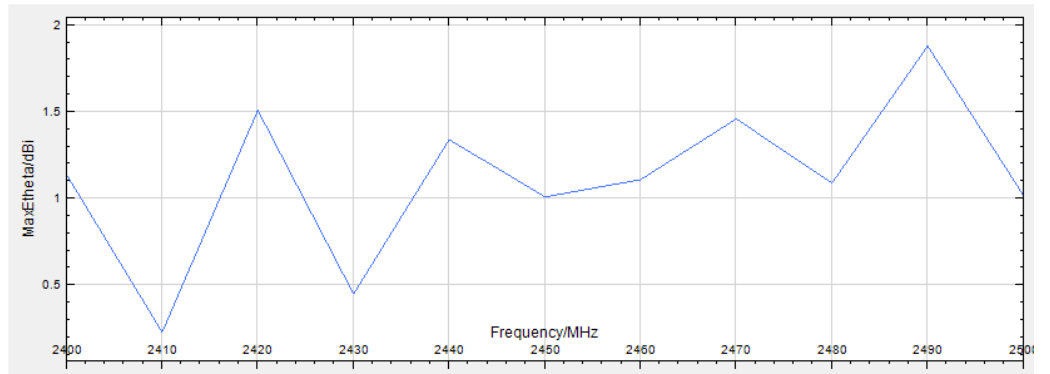
#### 4.4 Product gain test data

Frequency/MHz	MaxGain/dBi	AvgGain/dBi
2400	1.73	-3.01
2410	0.79	-3.22
2420	2.00	-2.8
2430	0.99	-3.11
2440	1.98	-2.75
2450	1.74	-2.64
2460	1.94	-2.72
2470	1.4	-2.32
2480	1.02	-2.53
2490	1.78	-2.13
2500	1.9	-2.48



#### 4.5 E-theta Gain 测试数据:

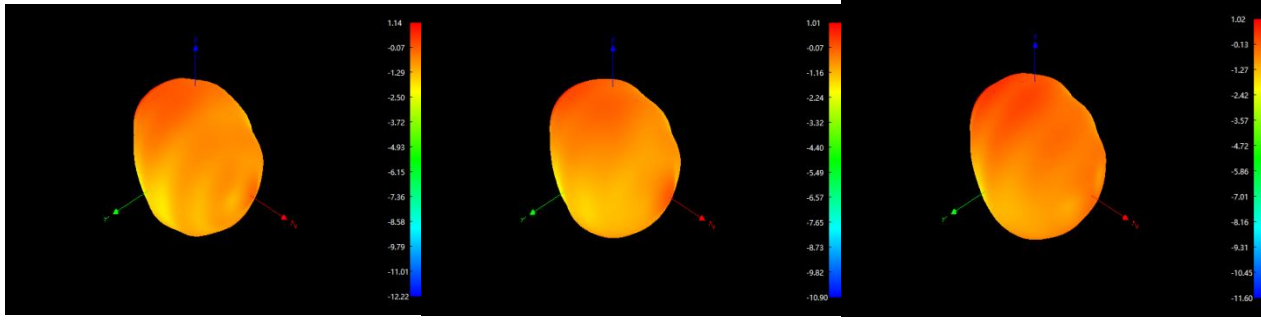
Frequency/MHz	MaxEtheta/dBi	AvgEtheta/dBi
2400	1.14	-5.43
2410	0.23	-5.68
2420	1.51	-5.24
2430	0.45	-5.64
2440	1.34	-5.28
2450	1.01	-5.24
2460	1.11	-5.36
2470	1.46	-4.97
2480	1.09	-5.2
2490	1.88	-4.8
2500	1.02	-5.2



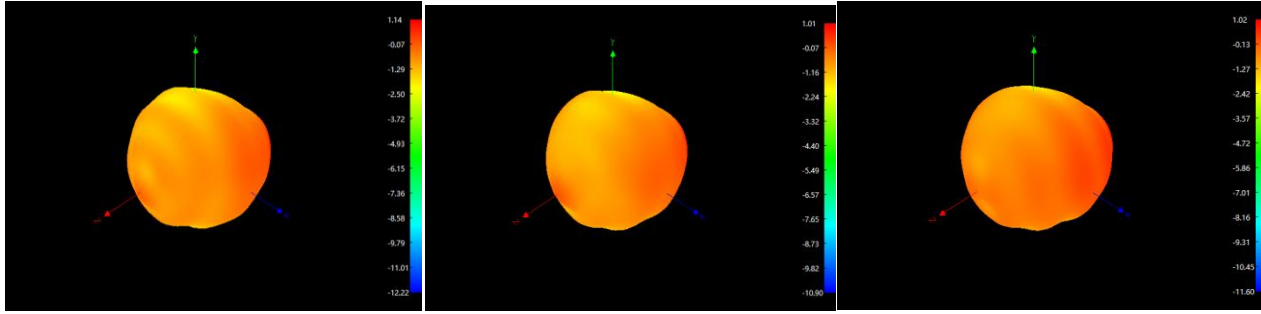


#### 4.6 3D E-total:

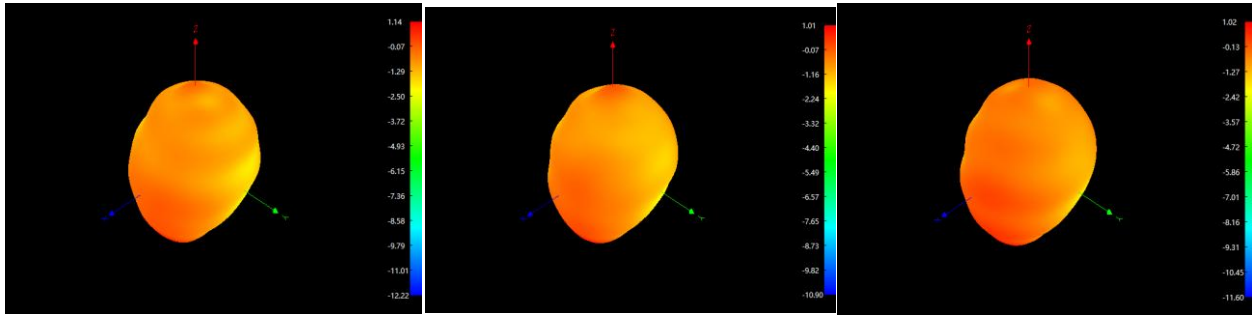
X:



Y:



Z:



#### 5. Product packaging method

Packing:

Packed in ziplock bags, 50PCS per pack

## 6. File record

Document No.	
Release Date	2022/10/24
Author	
Review	

### Revised History

Date	Version	Revised Record
2022/10/24	1.00	New Project