



Shenzhen DEWEIMA Communication Equipment Co.Ltd

# SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Shenzhen Fushi
CUSTOMER P/N	FS-CBT01
PART NAME	2.4G BT antenna
Material code	
APPROVAL REV.	DWM-V1.0

<b>CONTRACTOR</b>		<b>DATE:</b>	
2024-01-24			
<b>QA CHECKED</b>	<b>ME 研发专用章 CHECKED</b>	<b>RF CHECKED</b>	<b>MANAGER CHECKED</b>
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<b>Approved By</b>	<b>Checked By</b>	<b>Prepared By</b>

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**1. Product Application**

Terminal of the antenna products can only be used for 2.4G BT antenna.

**2. The test environment, equipment**

Item	Description	Test Condition	Requirement
2.1	Passivetesting	<p>The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurementCable → Customer-providing Devices.</p>	<p>VSWR: <b>2400MHz-2500MHz &lt; 2.0</b></p>
		Test equipment	
			
Item	Description	Test Condition	Requirement

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2.2

Active test

Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.

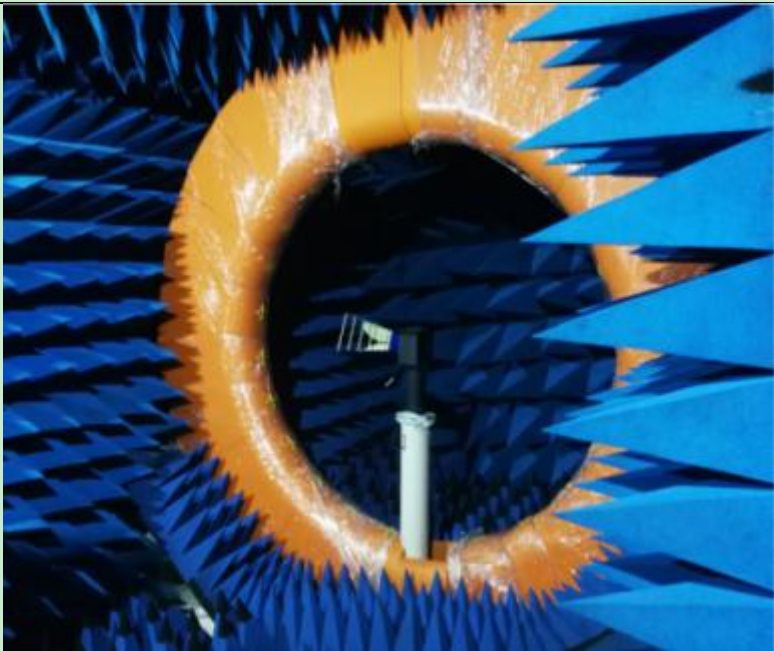
Antenna gain:  
**2400MHz-2500MHz: 2.29dBi**

Antenna efficiency:  
**2400MHz-2500MHz: >35%**

Test equipment/测试设备

2.3

Microwave  
Anechoic  
(Satimo&ETS)



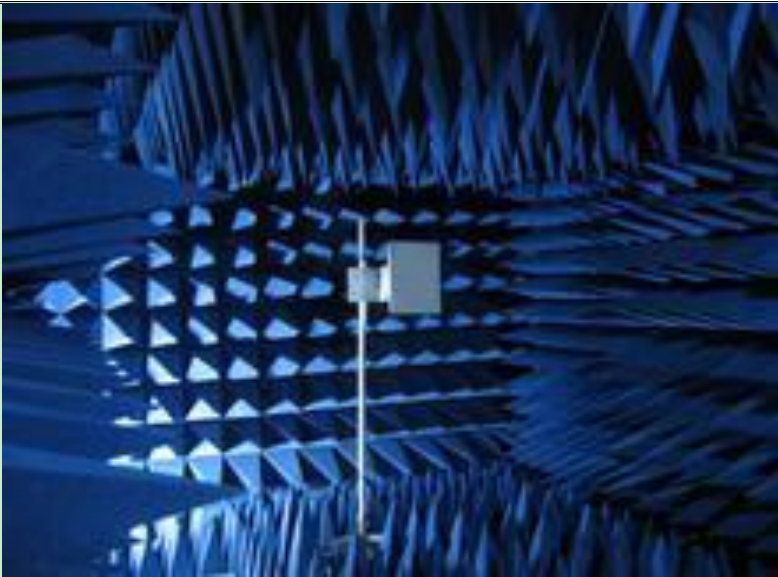
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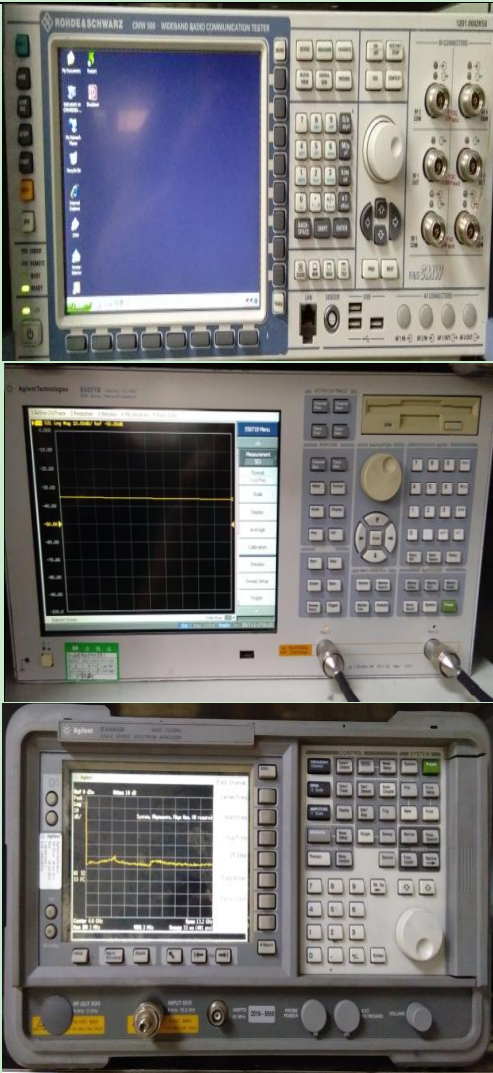
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2.4

CMW500  
Agilent5071B  
AgilentE4405B  
Agilent8960



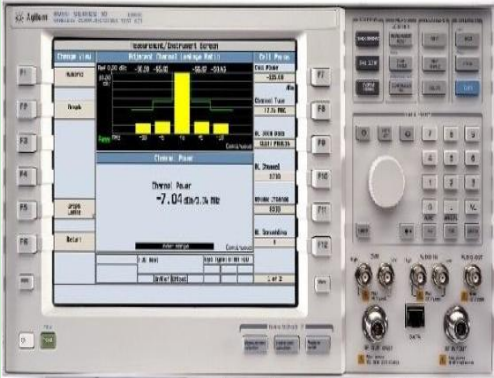
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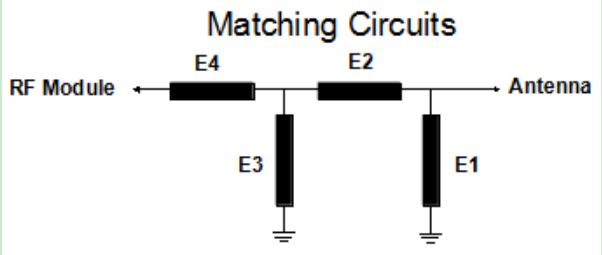
### 3. Technology Parameters

Frequency Range  
 Operating Humidity  
 Temperature Rating

**2400MHz-2500MHz**  
 85%R.H.MAX  
 -40°C ~ +85°C

#### 3.1 The matching test value

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	



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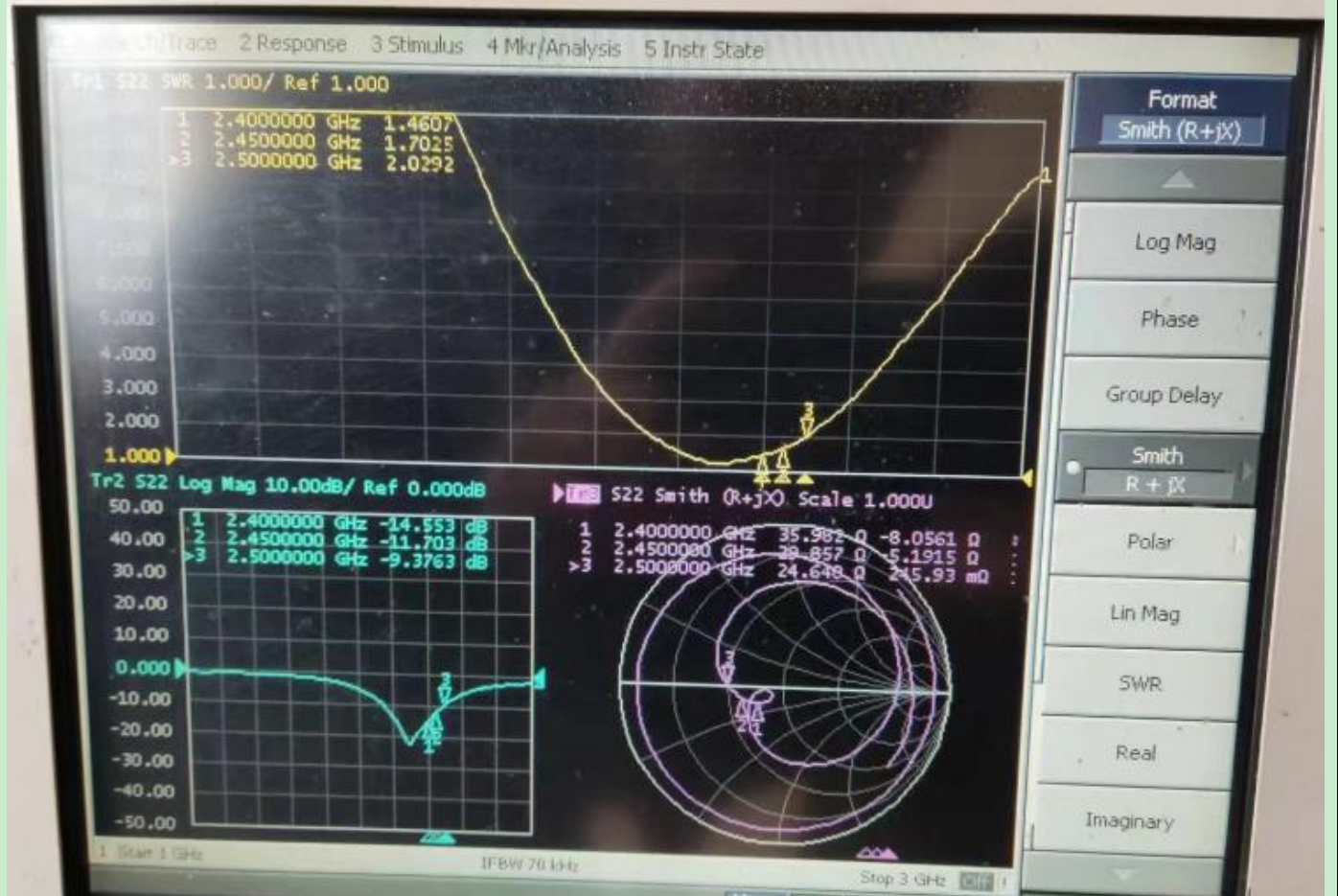
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## 3.2 VSWR



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### 3.3. Efficiency And Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	35.71	1.62
2410	36.12	1.72
2420	34.44	1.77
2430	35.25	1.5
2440	34.71	1.22
2450	35.51	1.6
2460	36.97	1.92
2470	37.1	1.63
2480	36.98	1.84
2490	37.04	2.29
2500	34.83	1.84

### 3.4 2D & 3D PHOTO



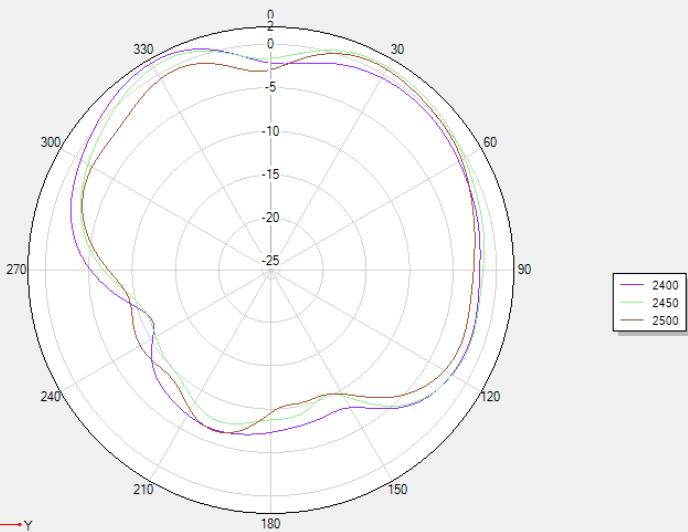
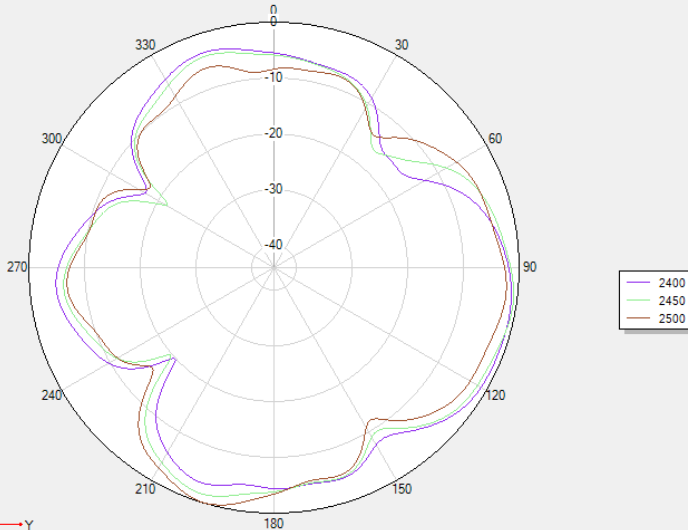
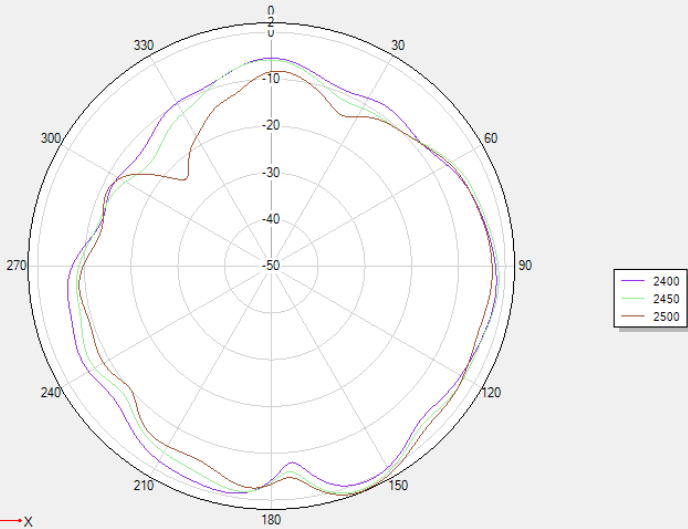
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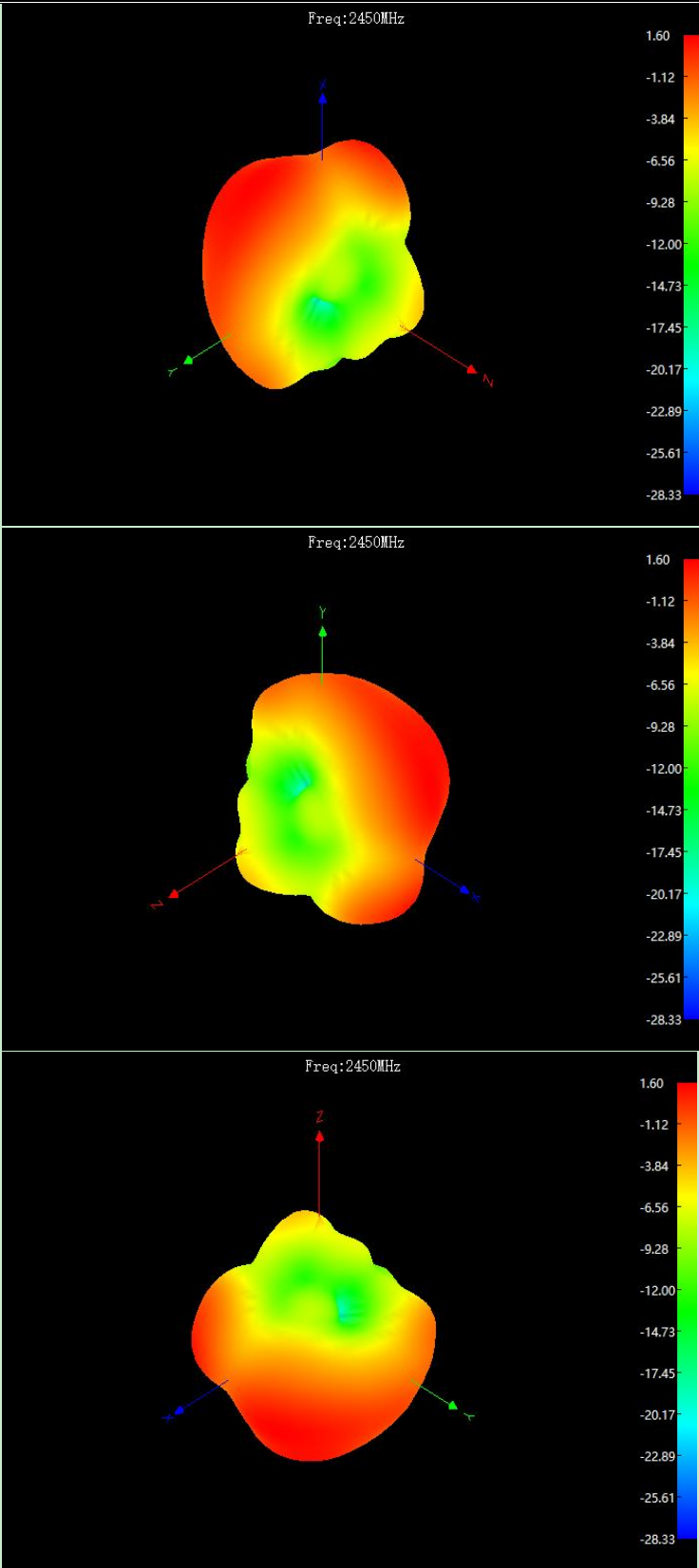
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## 4. Product photo

## 5. Environmental Performance

Item	Description	Test Condition	Requirement
5.1	High and low temperature test	Temp.: -40 °C Time: 48 hours  Temp.: 85 °C Time: 48 hours	1. No visible damage. 2. The electric performances reach the standard.
Item	Description	Test Condition	Requirement
5.2	Salt Spray	5±0.1% NaCl salt fog PH Value: 6.5-7.2 Temp: 35±1 °C Time: 24 hours	1. No color change. 2. The appearance of the antenna does not flake off.

## 6. Usage Precaution

No	Items	Matter
6.1	Precautions	a) Please avoid the cleaning of this product a)
No	Items	Matter
6.2	Stockpile condition	Use this product within 6 months after receipt Condition : Temp: 5~30 °C Humidity: ≤70%

## 7. Packing method

**Bag shipment, 100 pcs.**

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Dimension drawing:

