



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Siweipu
CUSTOMER P/N	FD2 Built in beacon module
PART NAME	2.4GWIFI antenna
Material code	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE : 2024-01-16
QA CHECKED	MR CHECKED	RF CHECKED	MANAGER CHECKED
高春彦	段燕林	陈显叶	余奇

CUSTOMER		DATE :
Approved By	Checked By	Prepared By

TEL: 13603094246

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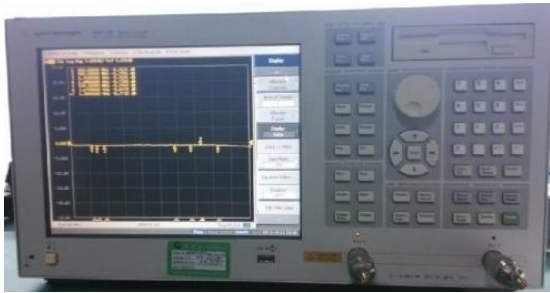
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1. Product Application

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

2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices.	VSWR: 2400MHz-2500MHz < 2.0
		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 ± 1 dBi

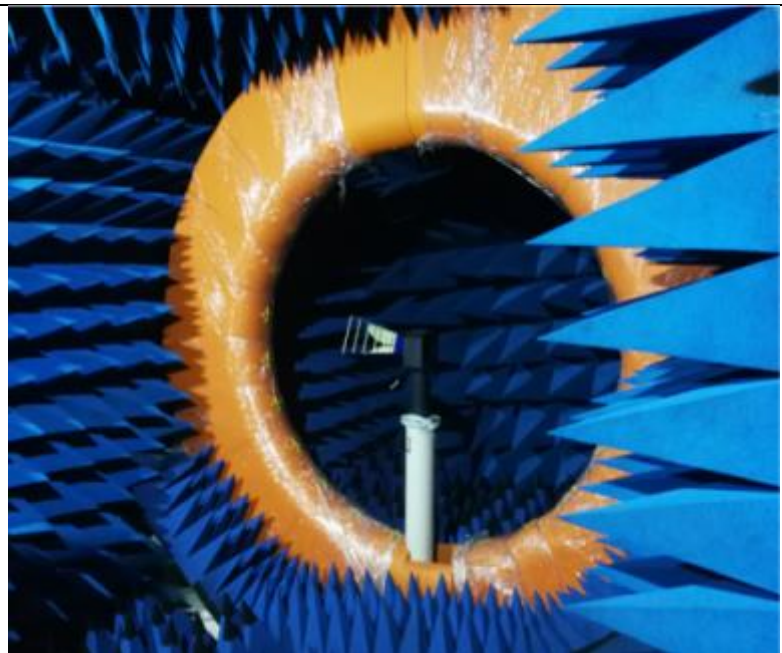
Antenna efficiency:

2400MHz-2500MHz : $> 50\%$

Test equipment/测试设备

2.3

Microwave
Anechoic
(Satimo&ETS)

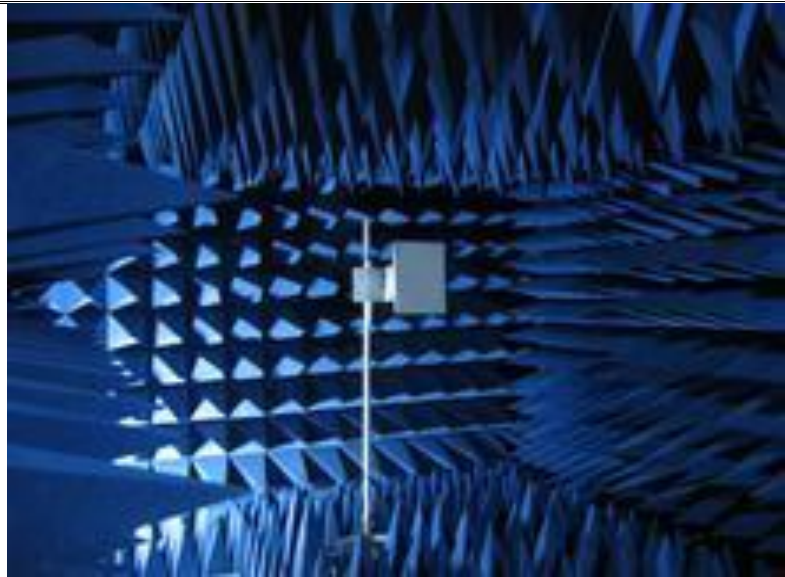


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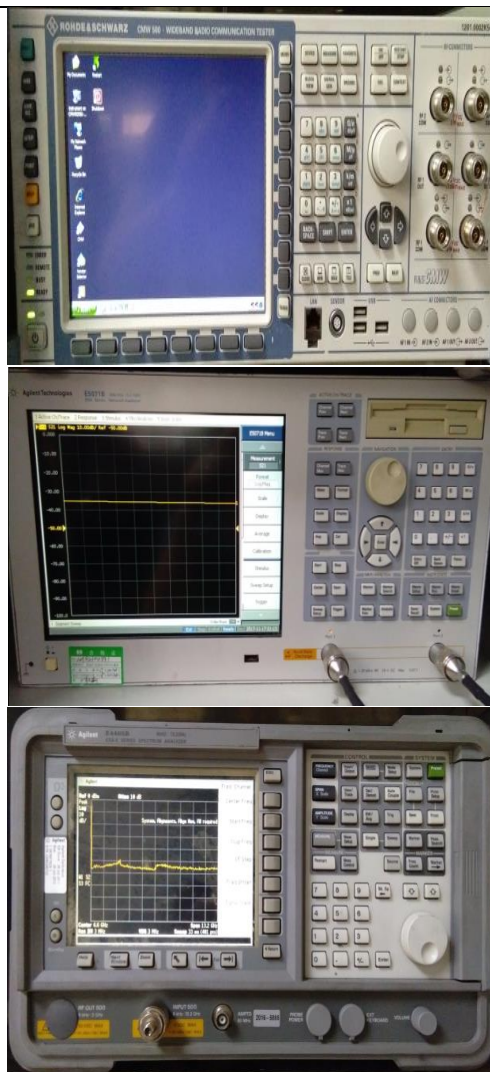
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2.4

CMW500
Agilent5071B
AgilentE4405B
Agilent8960



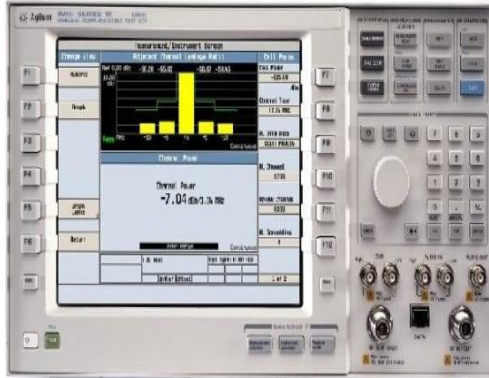
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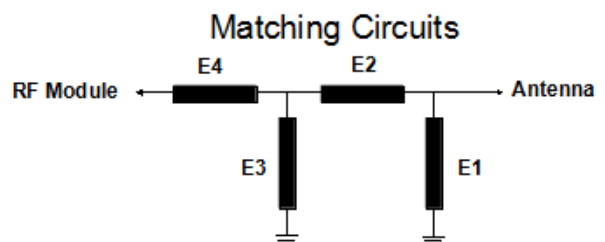
3. Technology Parameters

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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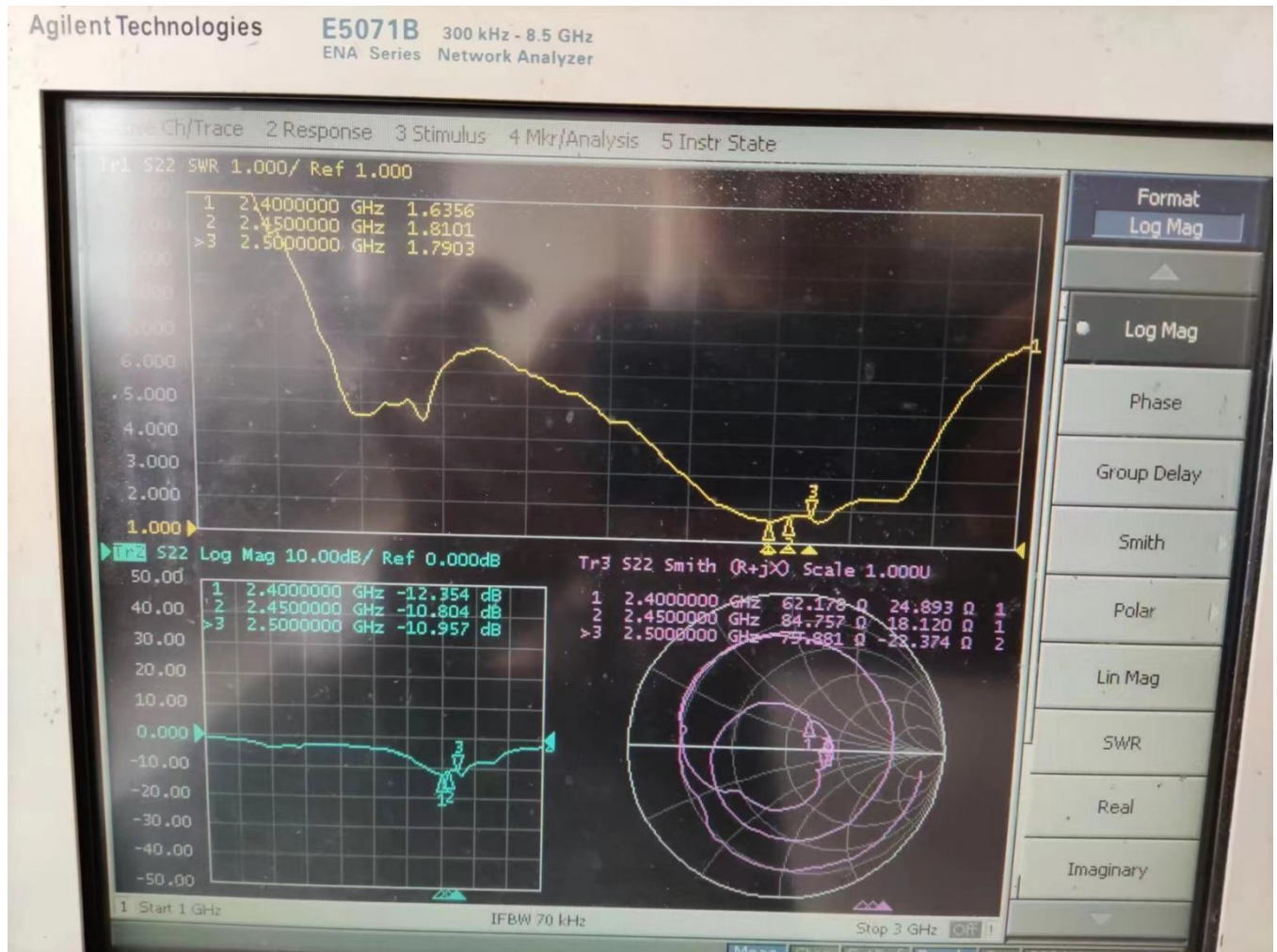
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3.2 VSWR



3.3. Efficiency And Gain

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Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	51.12	2.45
2410	49.66	2.6
2420	52.11	2.5
2430	51.61	2.45
2440	50.31	2.33
2450	52.11	2.7
2460	51.78	2.6
2470	50.15	2.56
2480	52.28	2.73
2490	53.79	2.78
2500	51.45	2.66

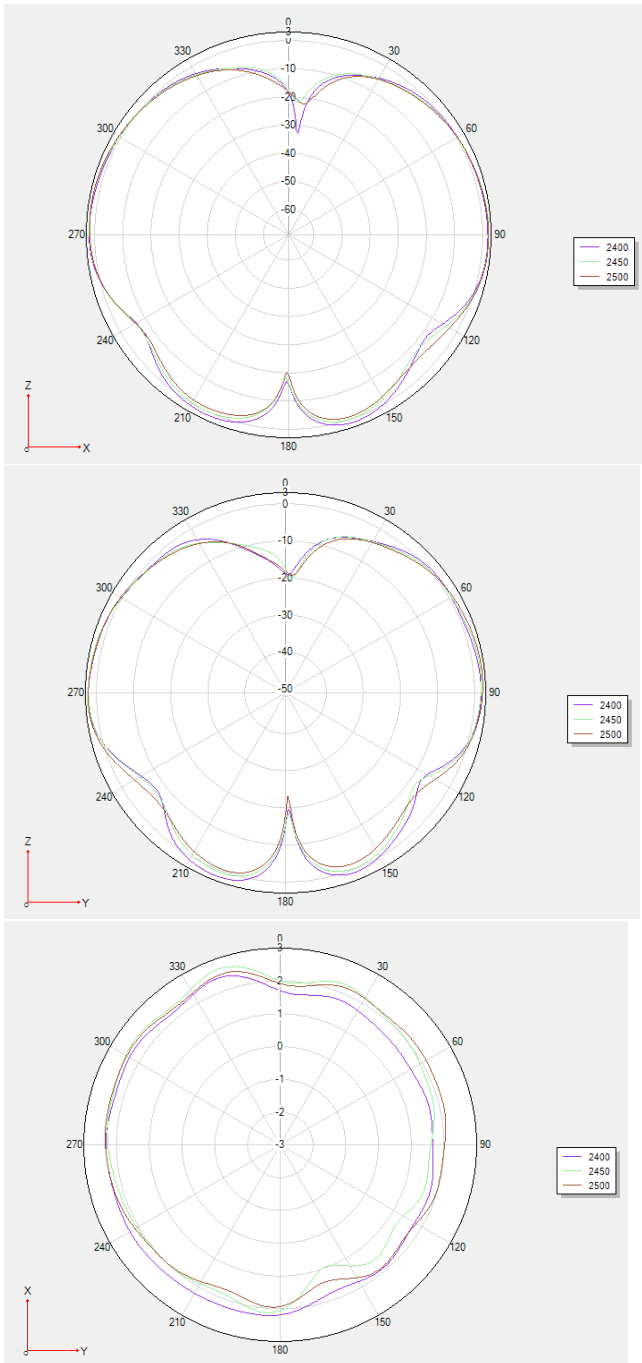
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3.4 2D & 3D PHOTO

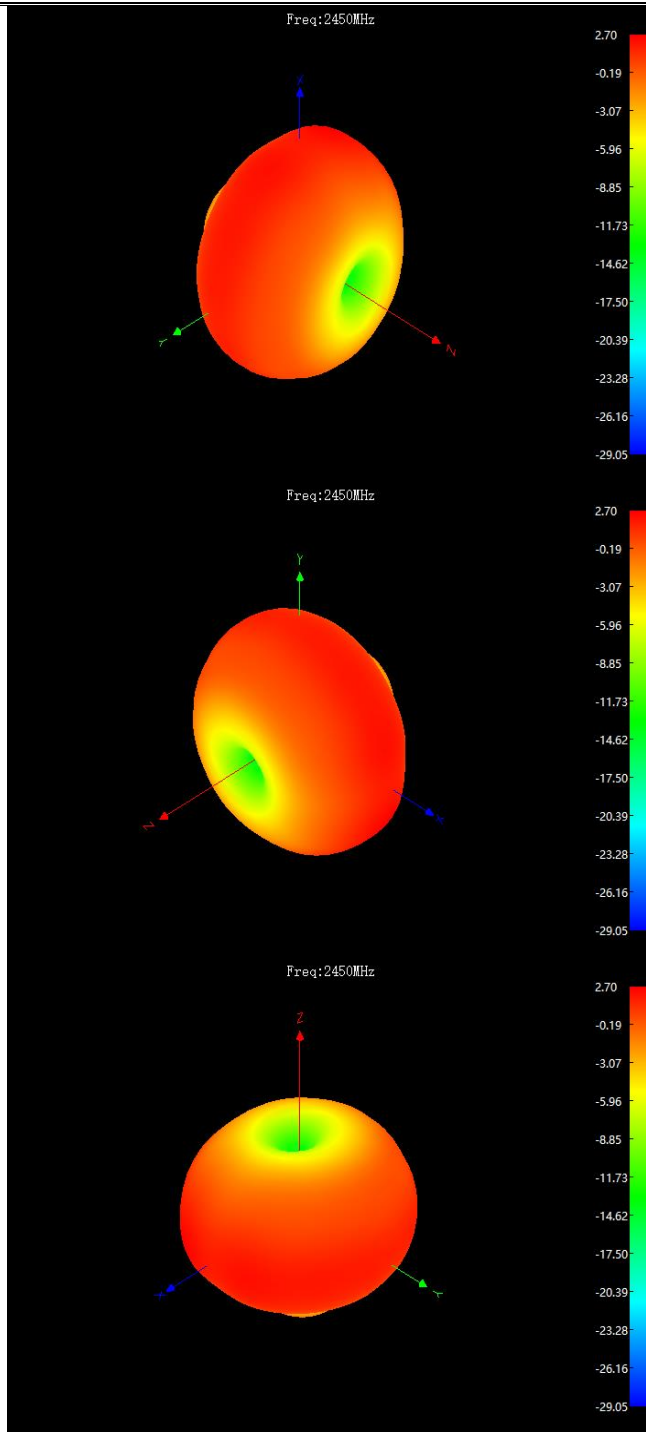


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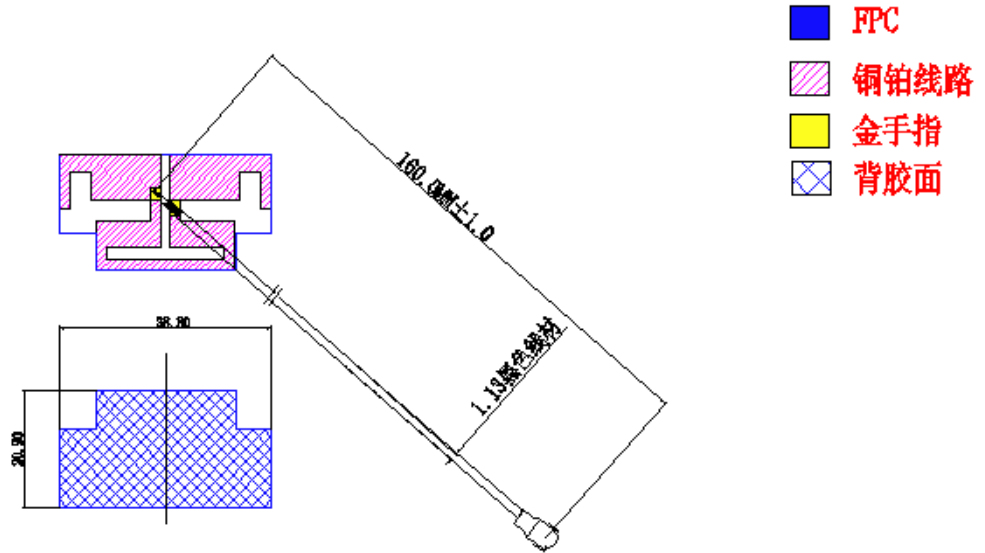
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4. Product photo



5.Environmental Performance

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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% Nad 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 producta)
No	Items	Matter
6.2	Stockpile condition	Use this product within 6 months after receipt Condition : Temp: 5~30°C Humidity:≤70%

7. Packing metho

Bag shipment, 100pcs.