



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Fa rui xin
CUSTOMER P/N	10.4 inch photo frame
PART NAME	2400-2500/5150-5850M Antenna
Material code	
APPROVAL REV.	2.4/5.8 D324-2019

CONTRACTOR			DATE : 2025-9.15
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
GAO CHUN YAN	LUO WEI PING	YOU SHUANG LIN	LIU HAI PING

CUSTOMER		DATE :
Approved By	Checked By	Prepared By

Content

SPECIFICATION	
SHEET FOR APPROVAL	
1. Product Application	
2. The test environment, equipment.....	
3.Technology Parameters	
4. Product photo	
5.EnvironmentalPerformance	
6.Usage Precaution	
7. Packing metho.....	

Product Specification

P/N:

Rev.:

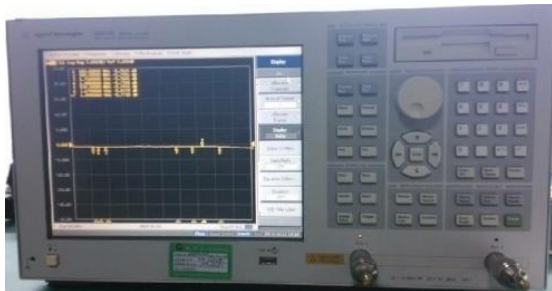
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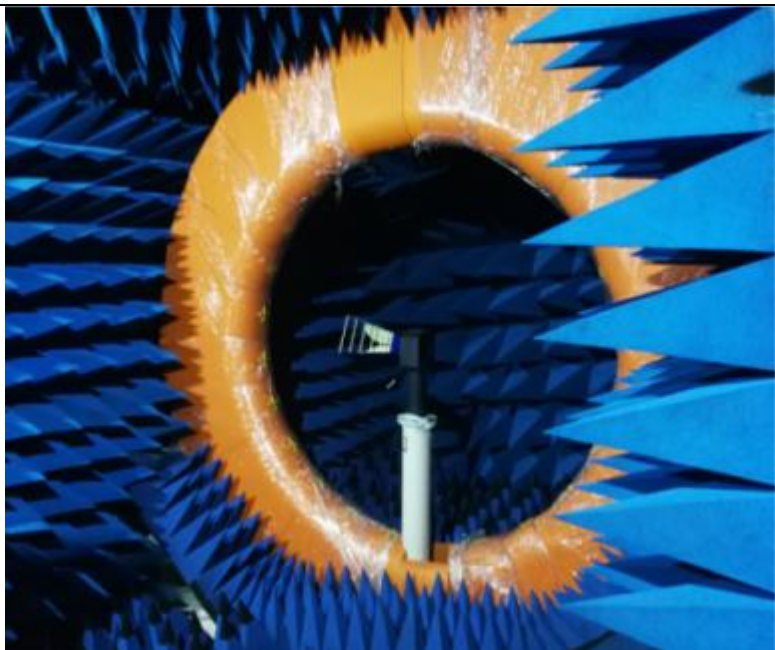
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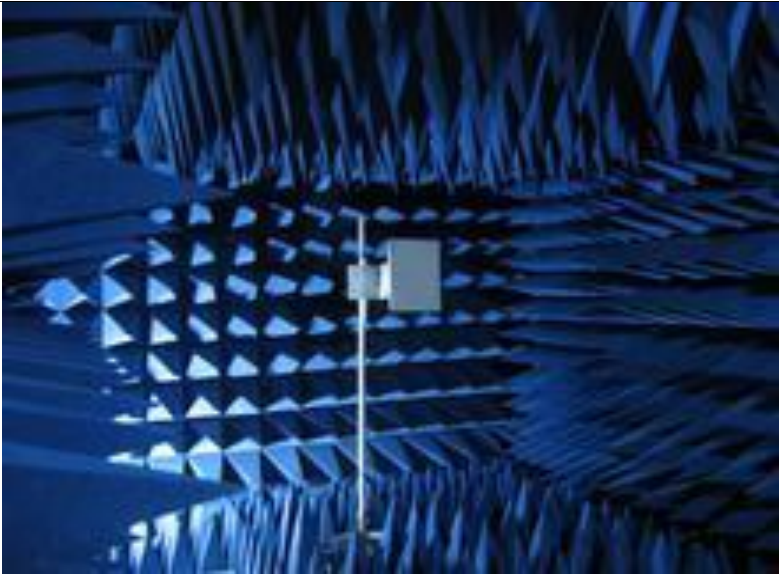
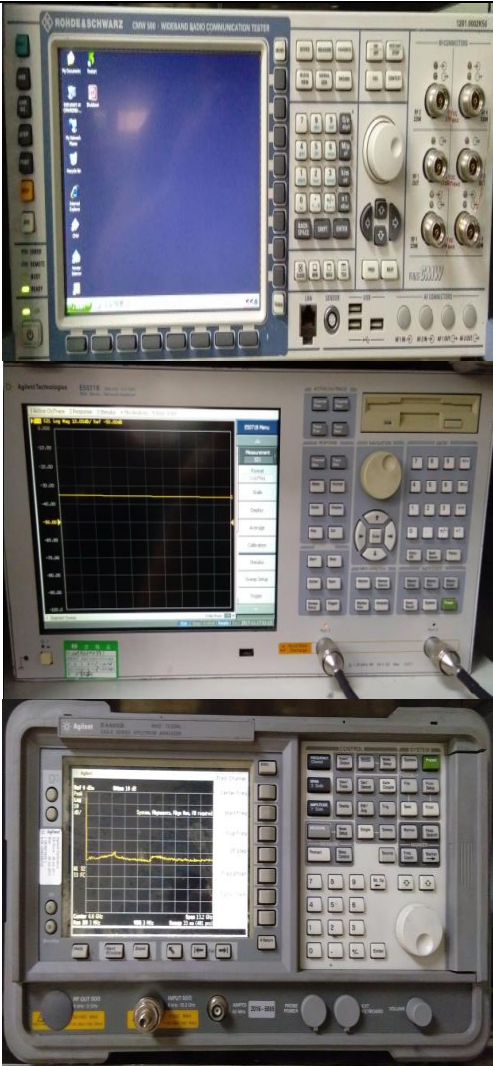
1. Product Application

Terminal of the antenna products can only be used for WIFI /BT antenna.

2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent 5071B Network Analyzer → measurement Cable → Customer-providing Devices.	VSWR: 2400/5850MHz ≤ 3
		Test equipment	
			
Item	Description	Test Condition	Requirement

			ProductSpecification		
			P/N:	Rev.: A	Page:
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: 2400-5850MHz:3.02dBi Antenna efficiency: 2400-2500/5150-5850 MHz>35%		
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment			
					

				Product Specification		
				P/N:	Rev.: A	Page:
						
2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960					

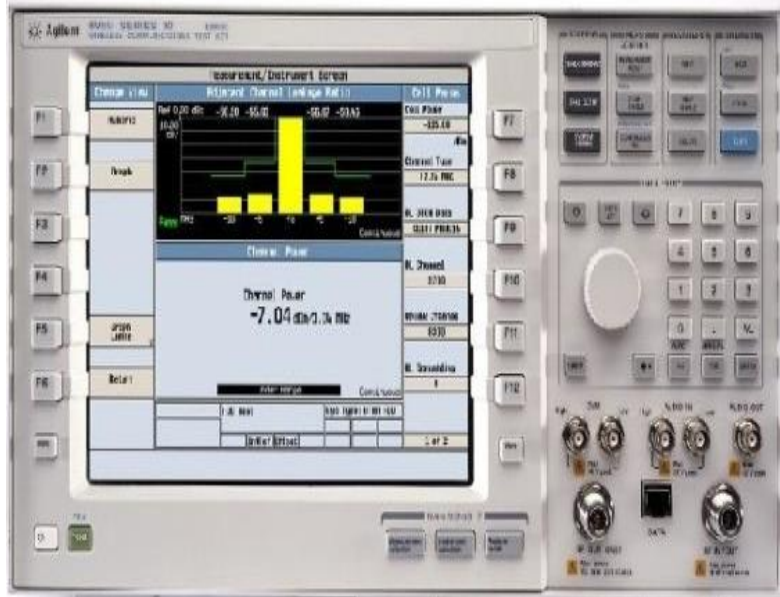
ProductSpecification

P/N:

Rev.:

A

Page:



3.Technology Parameters

Frequency Range2400/5850MHz

Operating Humidity

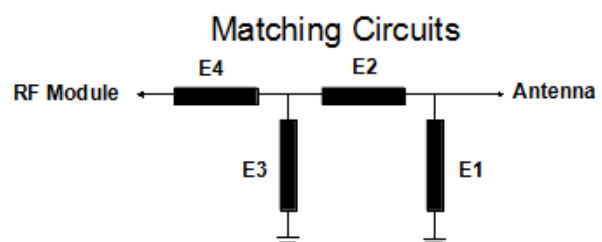
Temperature Rating

85%R.H.MAX

-40°C ~ +85°C

3.1 The matching test value

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



ProductSpecification

P/N:

Rev.:

A

Page:

3.2 2400/5850 VSWR



	ProductSpecification		
	P/N:	Rev.: A	Page:

SOURCE Data

	802.11b(11M)		
Channel	1	6	11
TRP	15.15	15.29	15.36
TIS			-78.12

	802.11a(54M)		
Channel	36	100	165
TRP	13.55	13.74	14.56
TIS			-65.66

Product Specification

P/N:

Rev.:

A

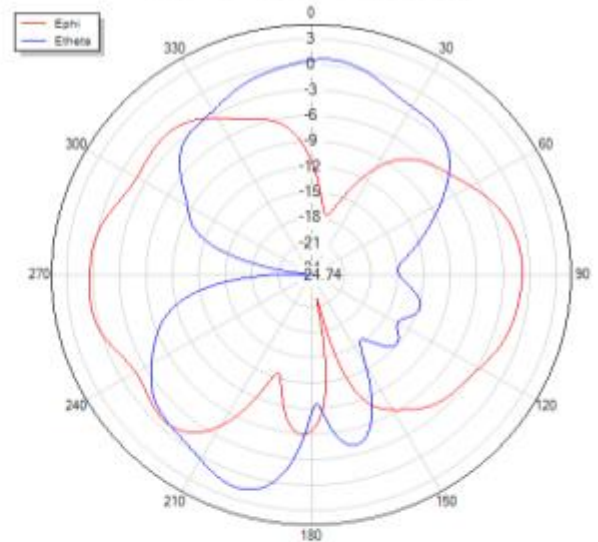
Page:

Gain&Efficiency&PhaseCenter

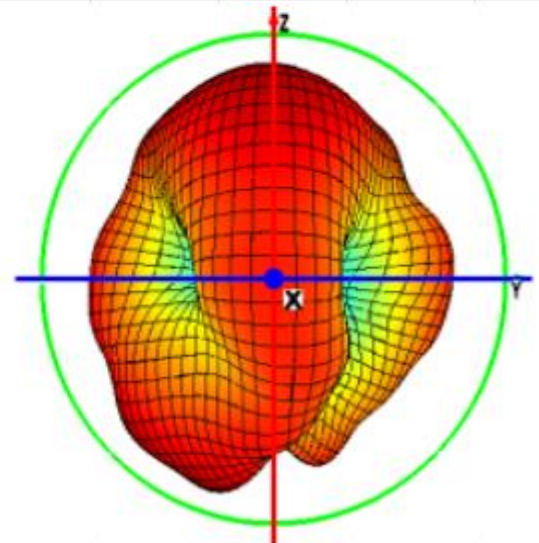
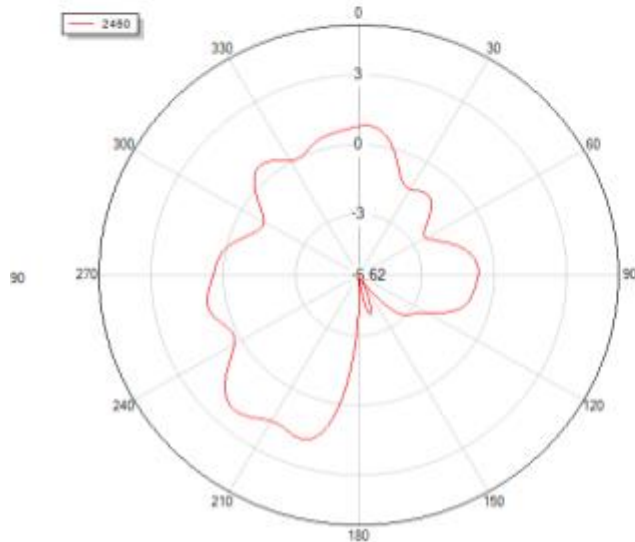
增益、效率和相位中心

Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	1.27	-25.68	-5.78	26.41
2410.00	1.08	-25.44	-5.67	27.09
2420.00	1.06	-24.62	-5.52	28.08
2430.00	1.56	-23.25	-5.03	31.39
2440.00	2.43	-22.26	-4.23	37.77
2450.00	2.72	-21.43	-3.93	40.46
2460.00	1.85	-20.52	-4.24	37.64
2470.00	1.39	-20.39	-4.78	33.25
2480.00	0.69	-20.62	-5.63	27.37
2490.00	0.27	-21.11	-6.32	23.34
2500.00	0.32	-21.78	-6.50	22.41

Phi=90 freq=2450MHz



Phi=90 freq=2450MHz



Product Specification

P/N:

Rev.:

A

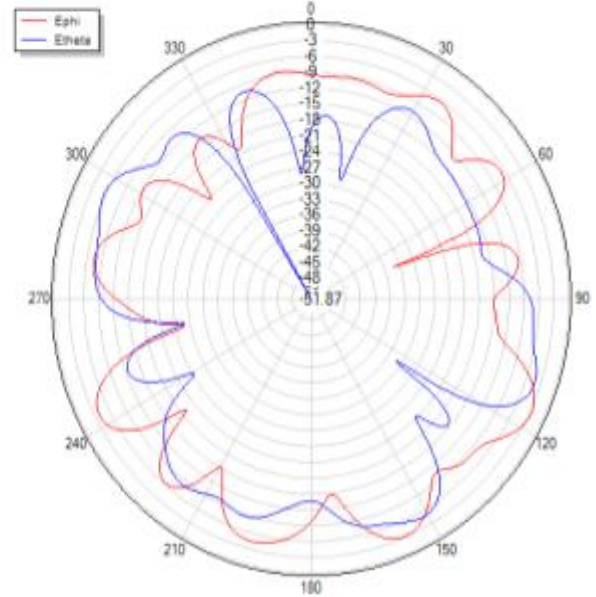
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Gain&Efficiency&PhaseCenter

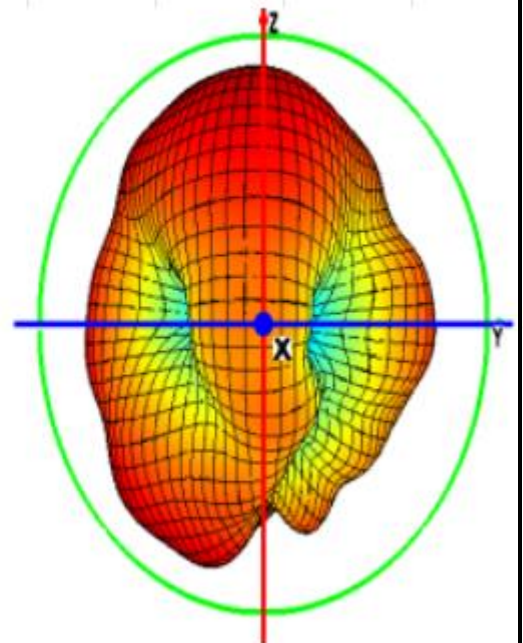
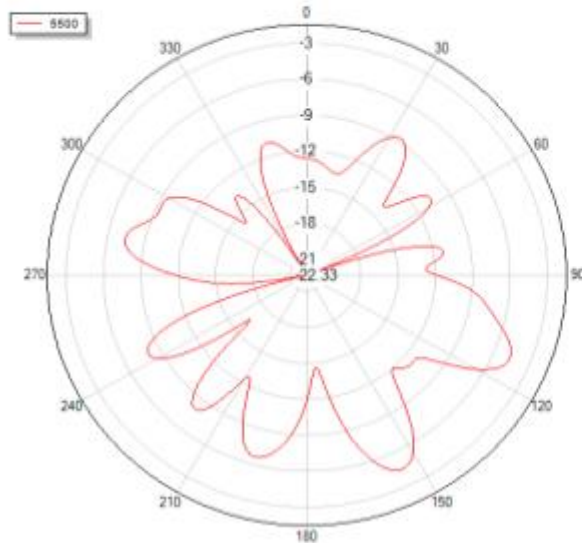
增益、效率和相位中心

Frequency	Gain	MinGain	Efficiency	Efficiency
y	增益(dBi)	最小增益	效率(dB)	效率(%)
5150.00	2.57	-35.90	-3.81	41.61
5200.00	0.97	-32.30	-5.95	25.43
5250.00	2.99	-33.33	-2.94	50.78
5300.00	3.02	-48.71	-2.64	54.43
5350.00	1.37	-34.22	-4.75	33.52
5400.00	2.03	-32.05	-4.14	38.52
5450.00	1.46	-34.85	-4.24	37.64
5500.00	0.61	-33.31	-6.39	22.96
5550.00	2.63	-27.58	-3.33	46.46
5600.00	0.35	-37.30	-6.75	21.16
5650.00	1.45	-32.52	-4.47	35.75
5700.00	1.33	-29.18	-4.84	32.81
5750.00	1.41	-32.01	-4.63	34.43
5800.00	2.85	-28.95	-3.17	48.15
5850.00	1.35	-33.48	-4.85	32.76

Phi=90 freq=5550MHz



Phi=90 freq=5500MHz



Product Specification

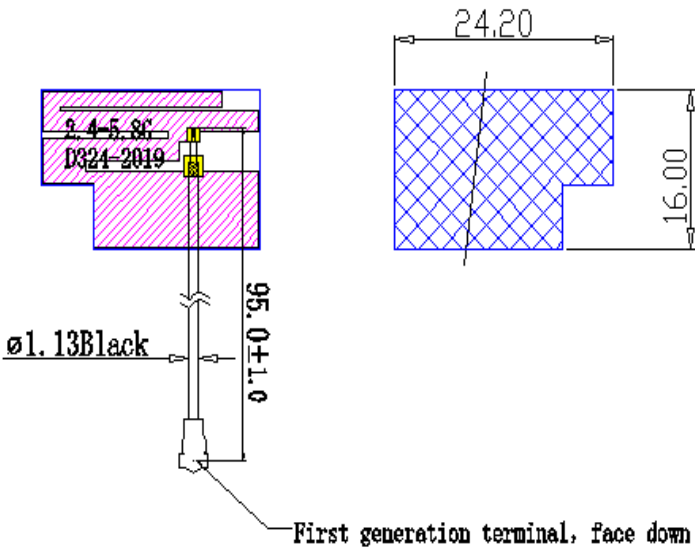
P/N:

Rev.:

Page:

A

Product images



Antenna type do: PIFA Antenna+cable

Product Specification

P/N:

Rev.:

A

Page:

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, 100pcs °

	ProductSpecification		
	P/N:	Rev.: A	Page:

corporate name:

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