



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Gaoju Innovation
CUSTOMER P/N	B03-(900M +5.8G) -V1.2
PART NAME	WIFI Antenna
Material code	111601-00085
APPROVAL REV.	DWM-V1.2

CONTRACTOR			DATE: 2024-06-12
QA CHECKED	MR CHECKED	RF CHECKED	MANAGER CHECKED
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CUSTOMER		DATE:
Approved By	Checked By	Prepared By

TEL: 13603094246

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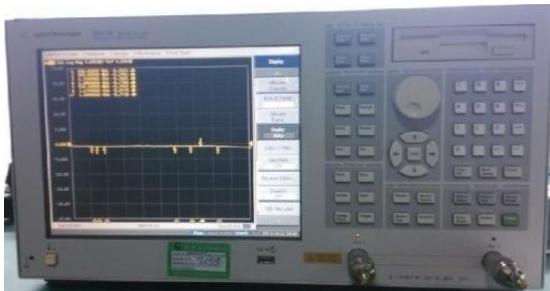
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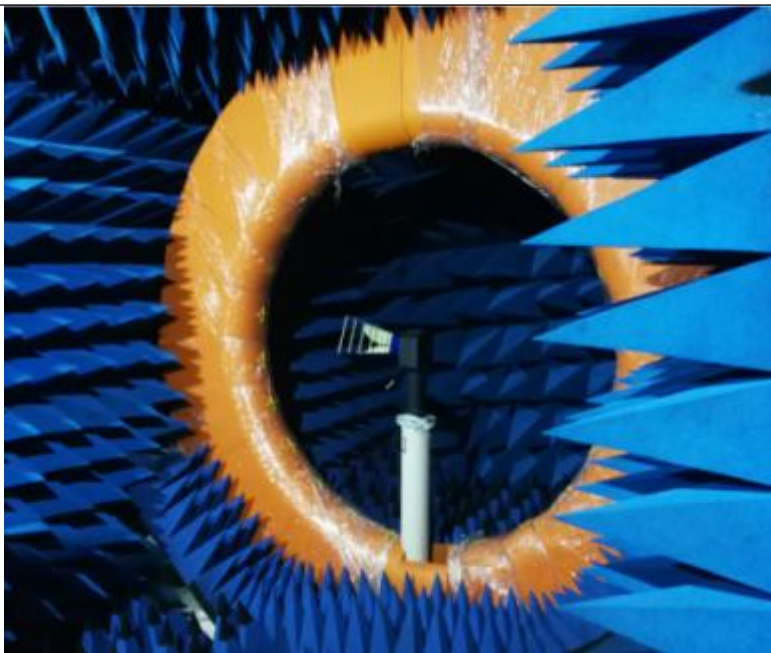
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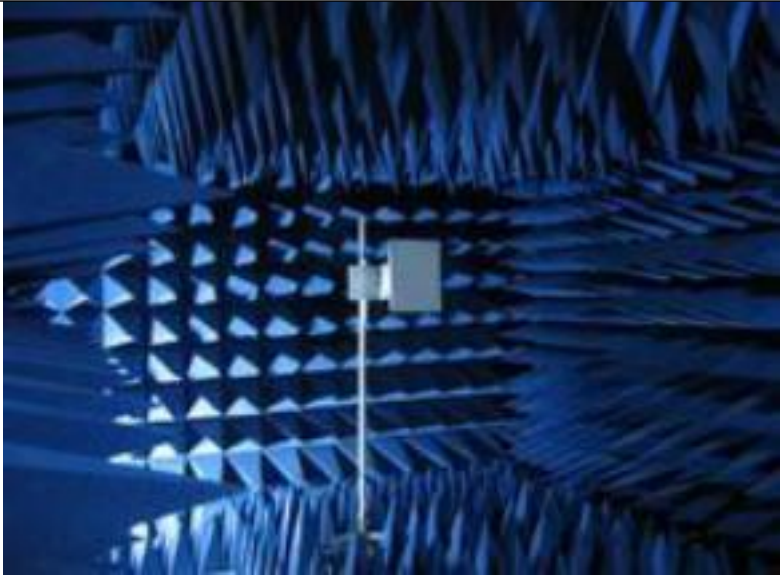
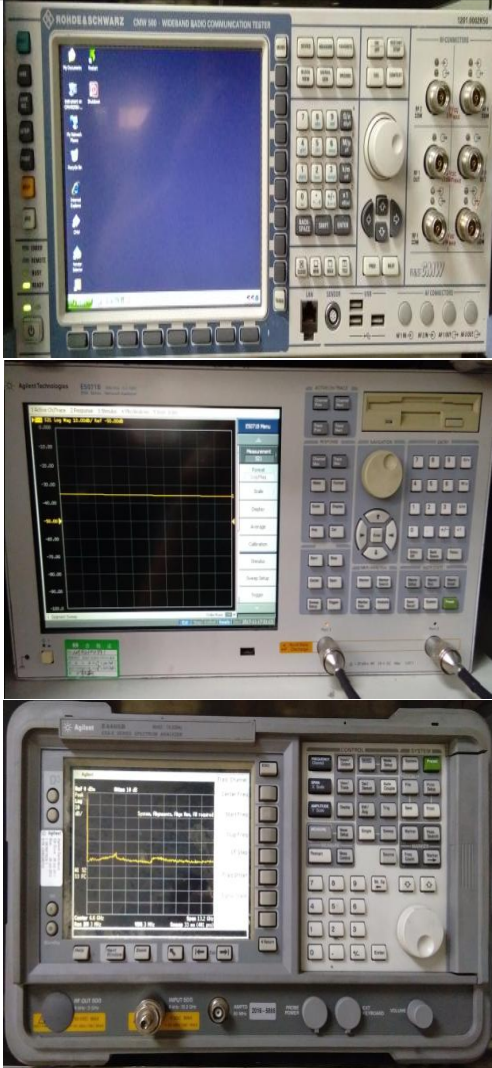
1. Product Application

Terminal of the antenna products can only be used for 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: 890MHz~920MHz<2.5 5150MHz~5850MHz<2.5
		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: 890MHz~920MHz:-2dBi±1dBi 5150MHz~5850MHz:2dBi±1dBi Antenna efficiency: 890MHz~920MHz>25% 5150MHz~5850MHz>35%		
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment/测试设备			
					

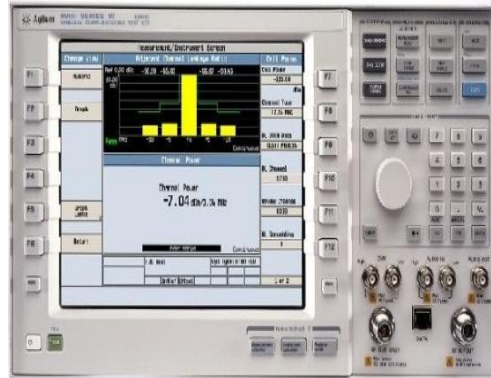
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2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960					

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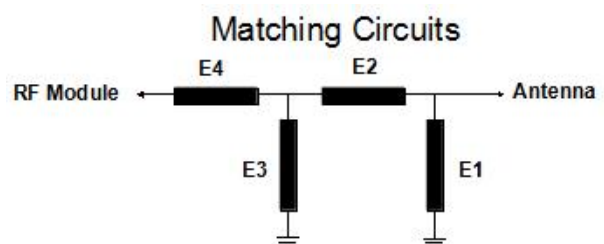
3. Technology Parameters

Frequency Range
Operating Humidity
Temperature Rating

890MHz~920MHz&5150MHz~5850MHz
85% R.H.MAX
-40℃~+85℃

3.1 The matching test value

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



Product Specification

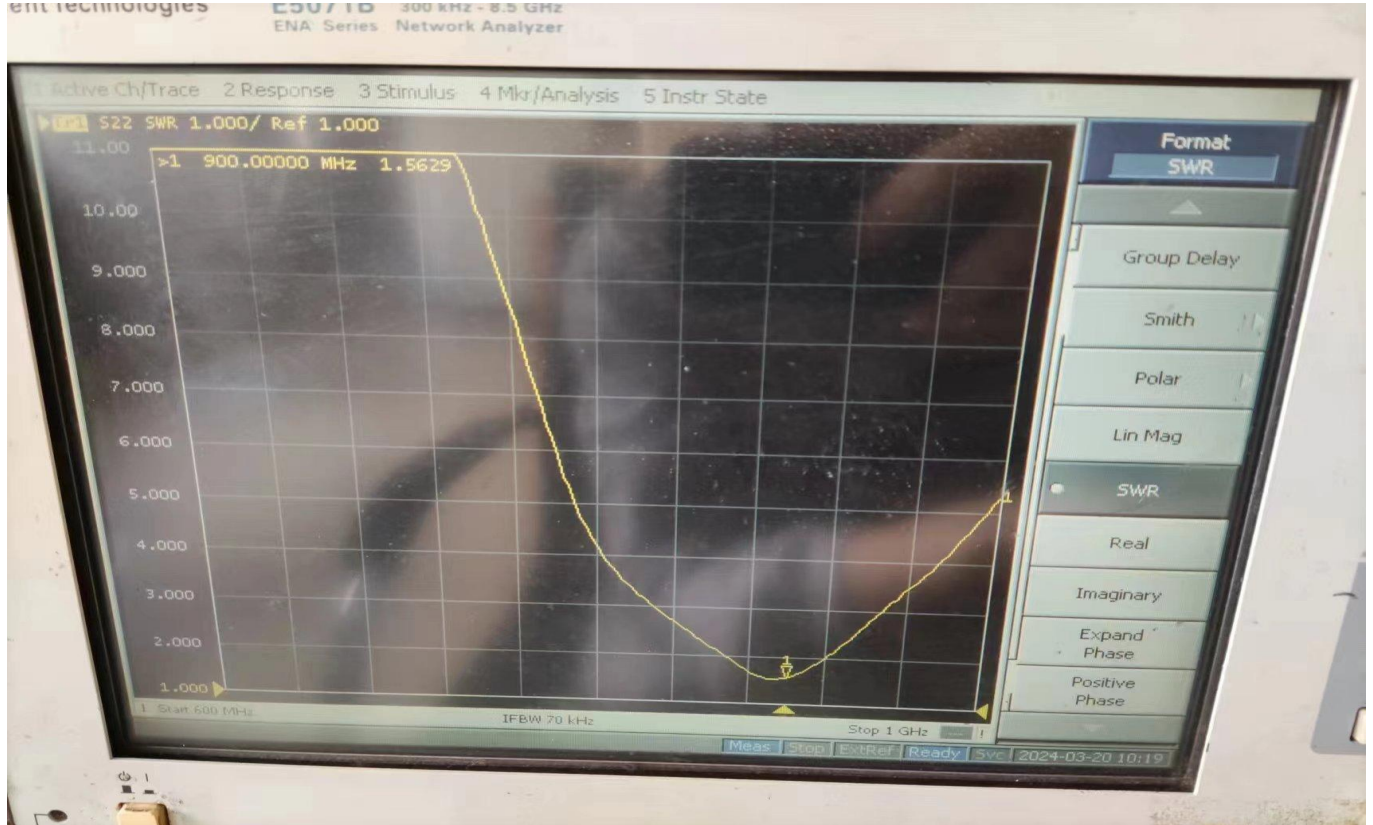
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3.2 VSWR

890MHz~920MHz



3.3. Efficiency And Gain/效率和增益

Frequency/Mhz	Efficiency / %	MaxGain/dBi
890	21.42	-2.23
892	22.28	-2.21
894	21.81	-2.8
896	21.27	-2.69
898	23.07	-2.06
900	24.07	-2.15
902	25.25	-2.06
904	26.72	-1.85
906	27.83	-1.83
908	26.83	-1.81
910	25.11	-1.69
912	27.59	-2.28
914	24.33	-2.35
916	25.69	-1.82
918	26.94	-2.39
920	23.4	-2.41

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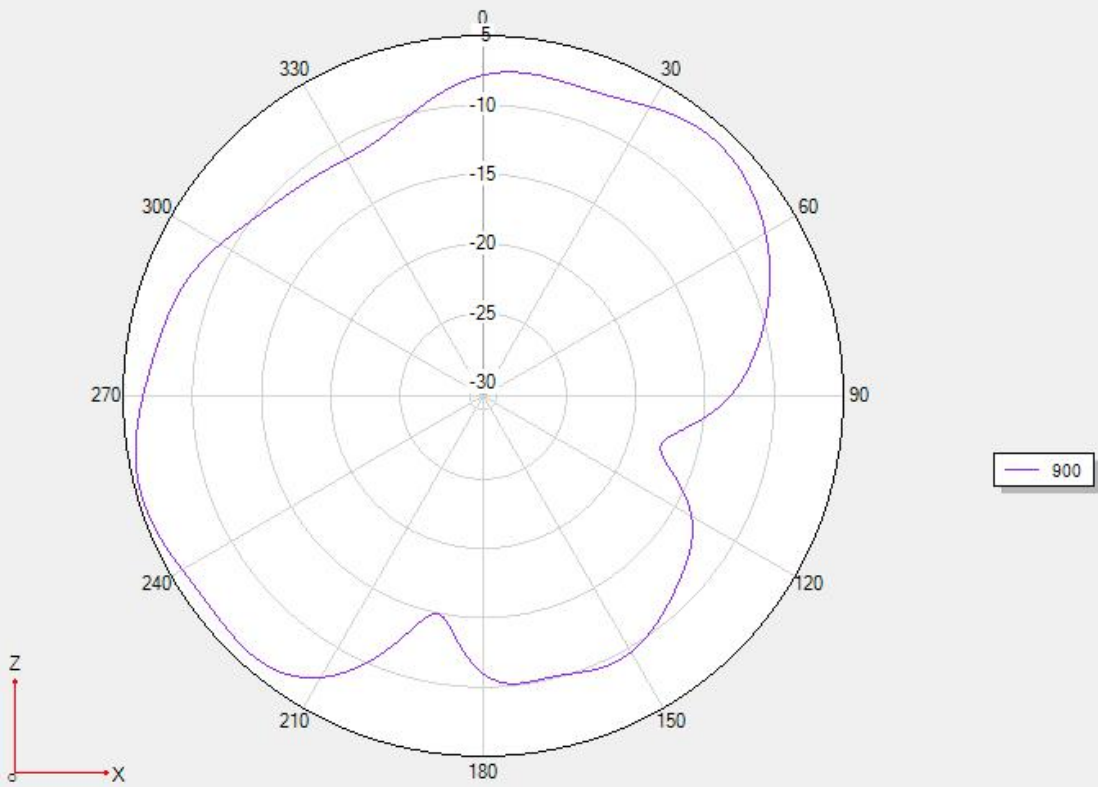
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3.4 2D & 3D PHOTO

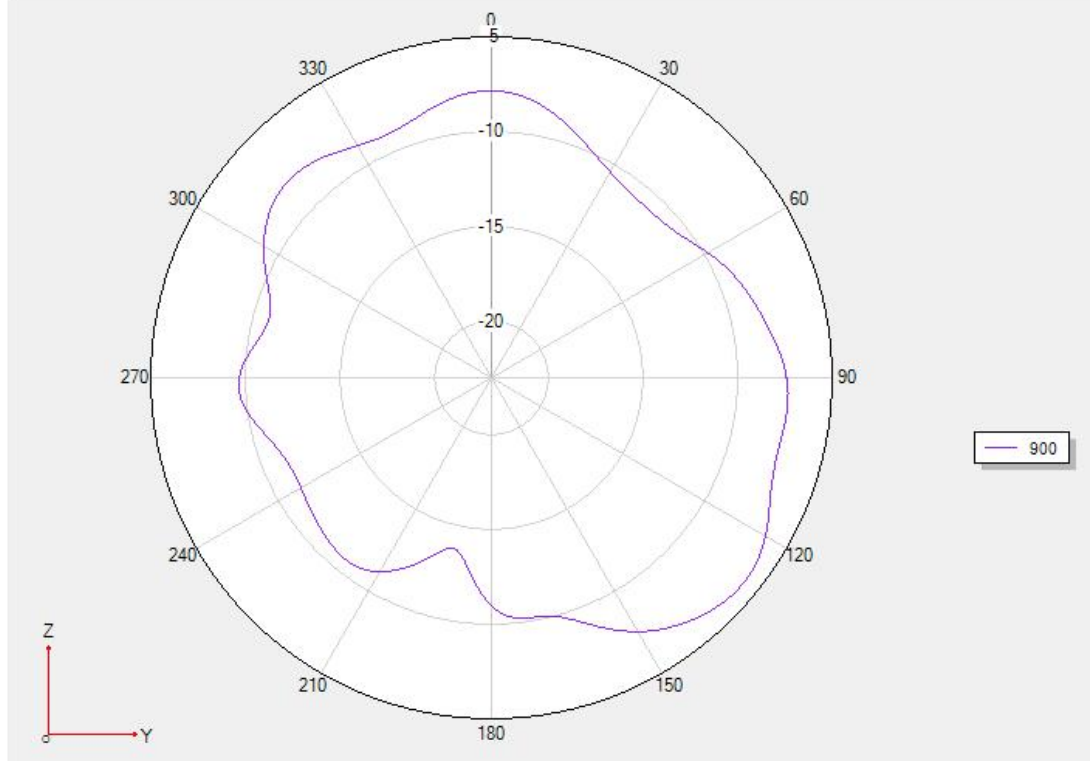
900M

PHi 0°



900M

PHi 90°



Product Specification

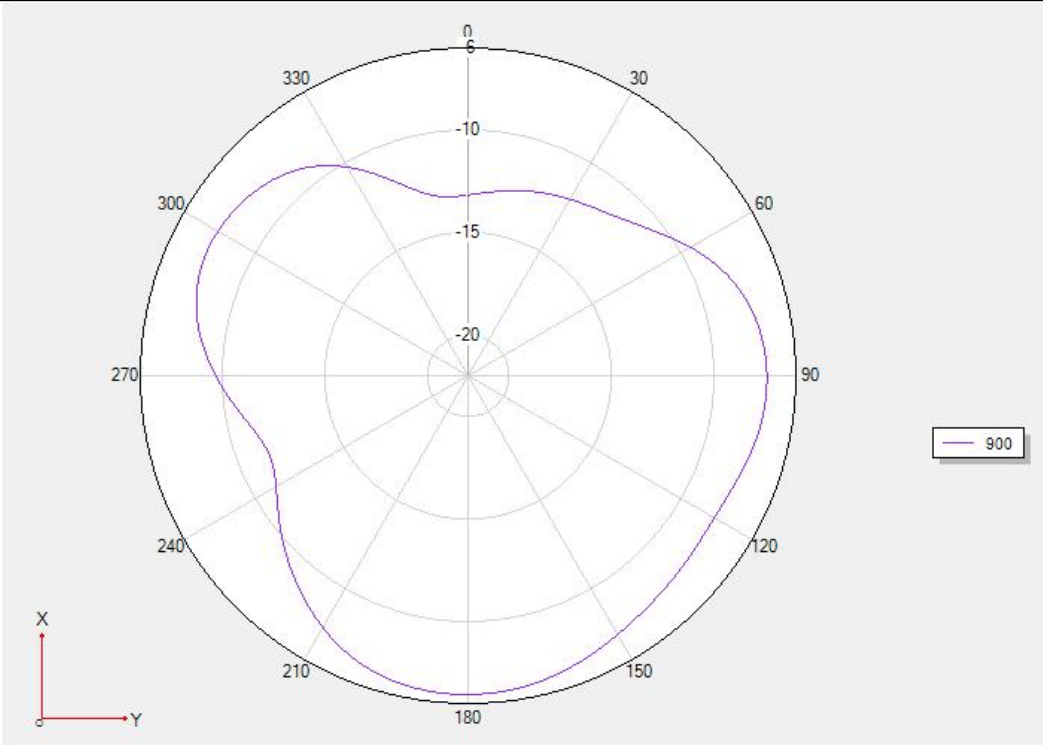
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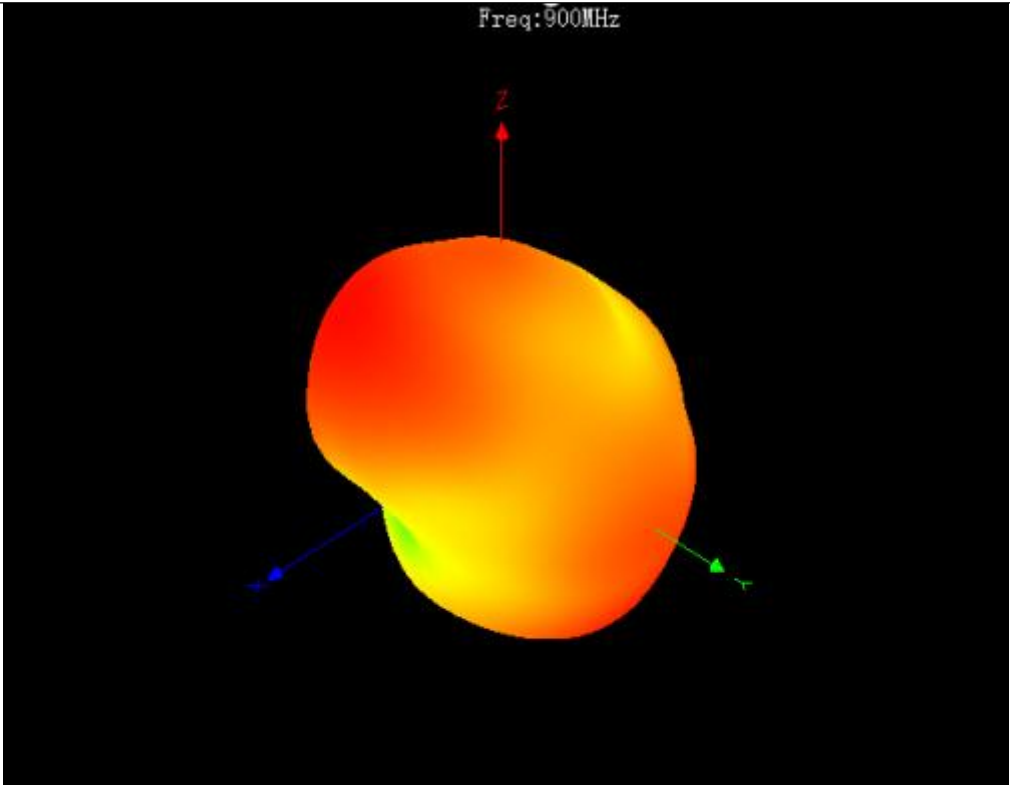
900M

Theta
90°



900M

(3D
Pattern)



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VSWR 5.8



Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	40.36	5.86
5200	43.85	6.41
5250	44.57	6.75
5300	43.85	6.69
5350	43.85	6.73
5400	41.5	6.27
5450	37.15	5.65
5500	36.39	5.4
5550	36.04	4.66
5600	37.12	4.11
5650	38.48	4.23
5700	36.7	4.66
5750	37.73	4.86
5800	38.89	4.75
5850	37.04	4.83

Product Specification

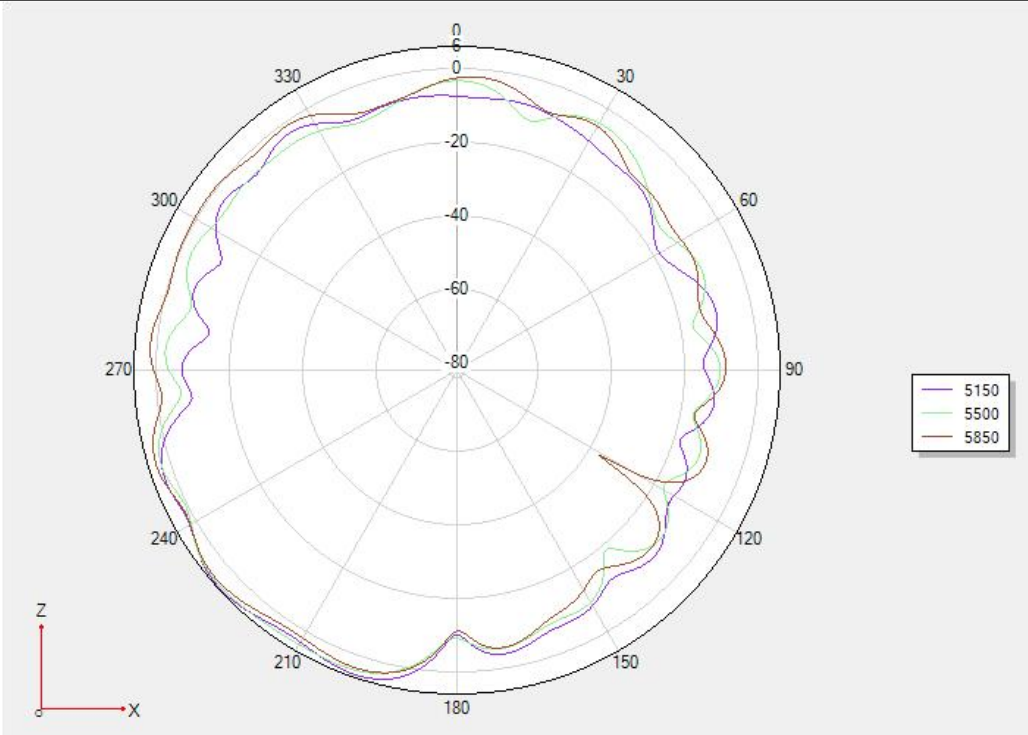
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5. 8G

PHi 0°



Product Specification

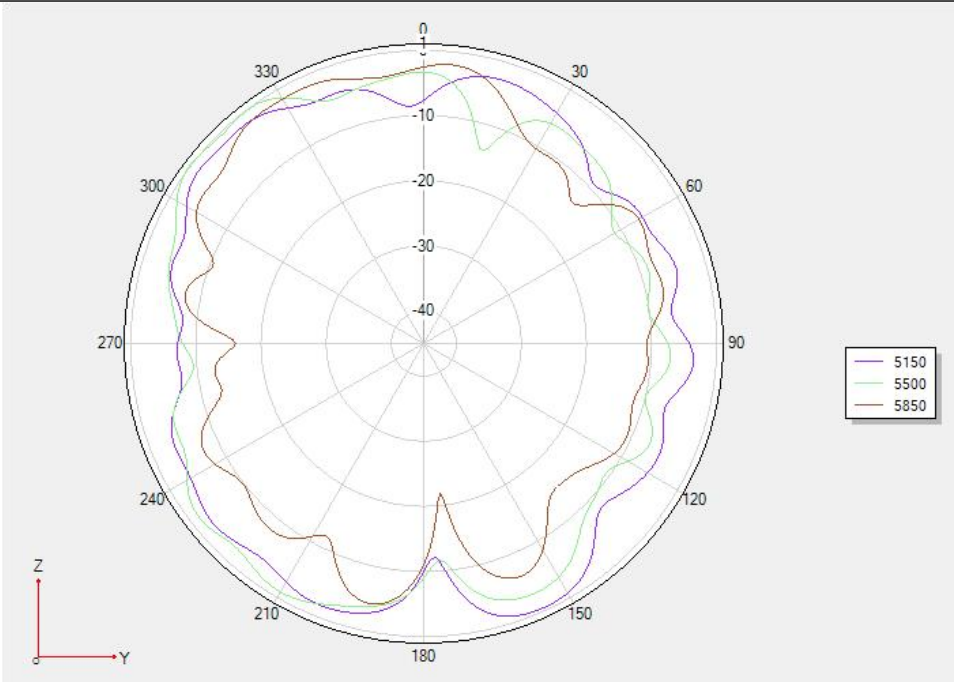
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5. 8G

PHi 90°



Product Specification

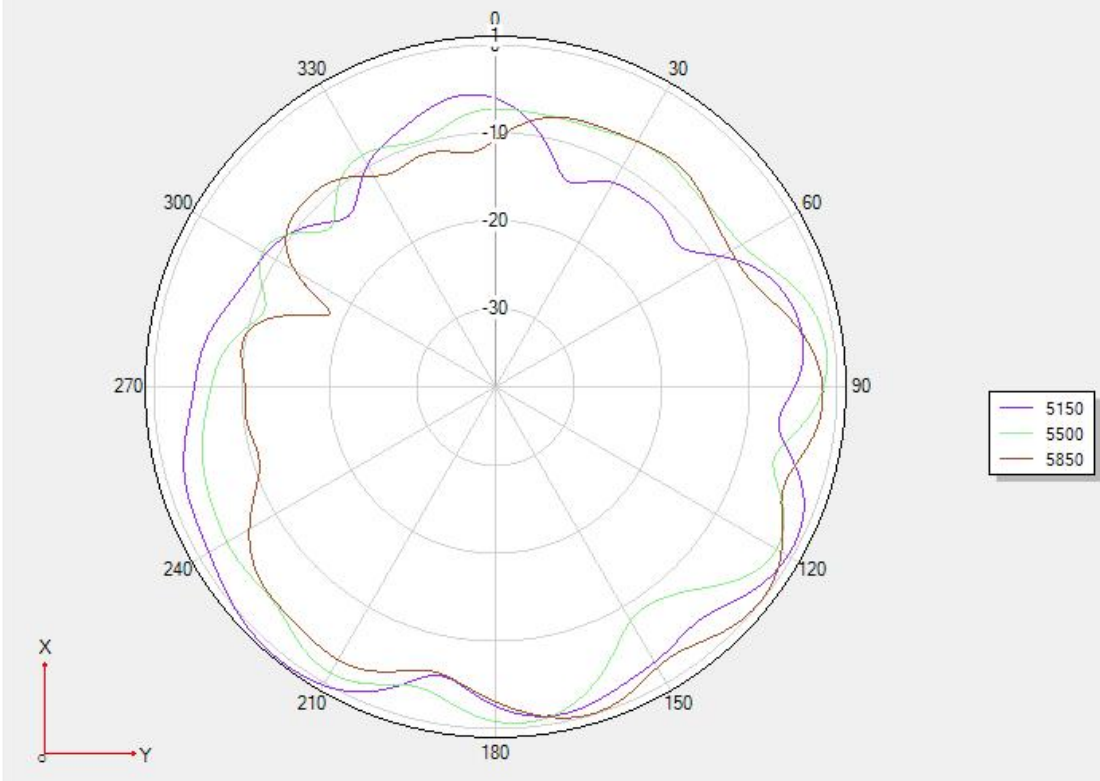
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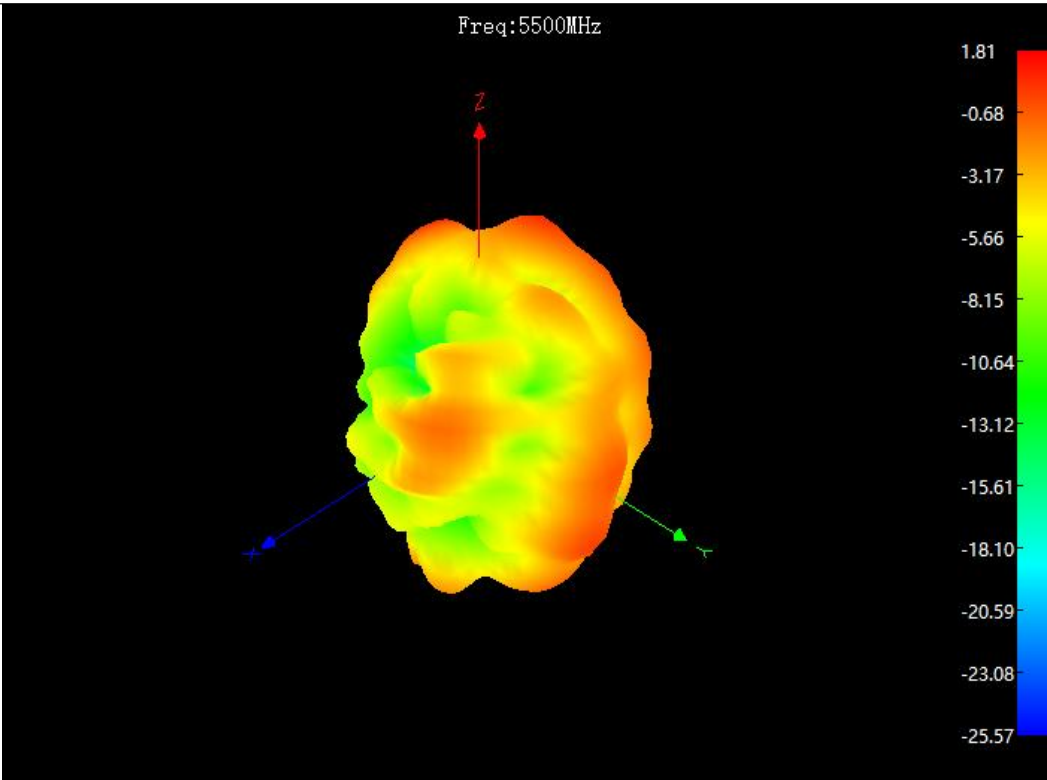
5. 8G

Theta
90°



5. 8G

(3D
Pattern)



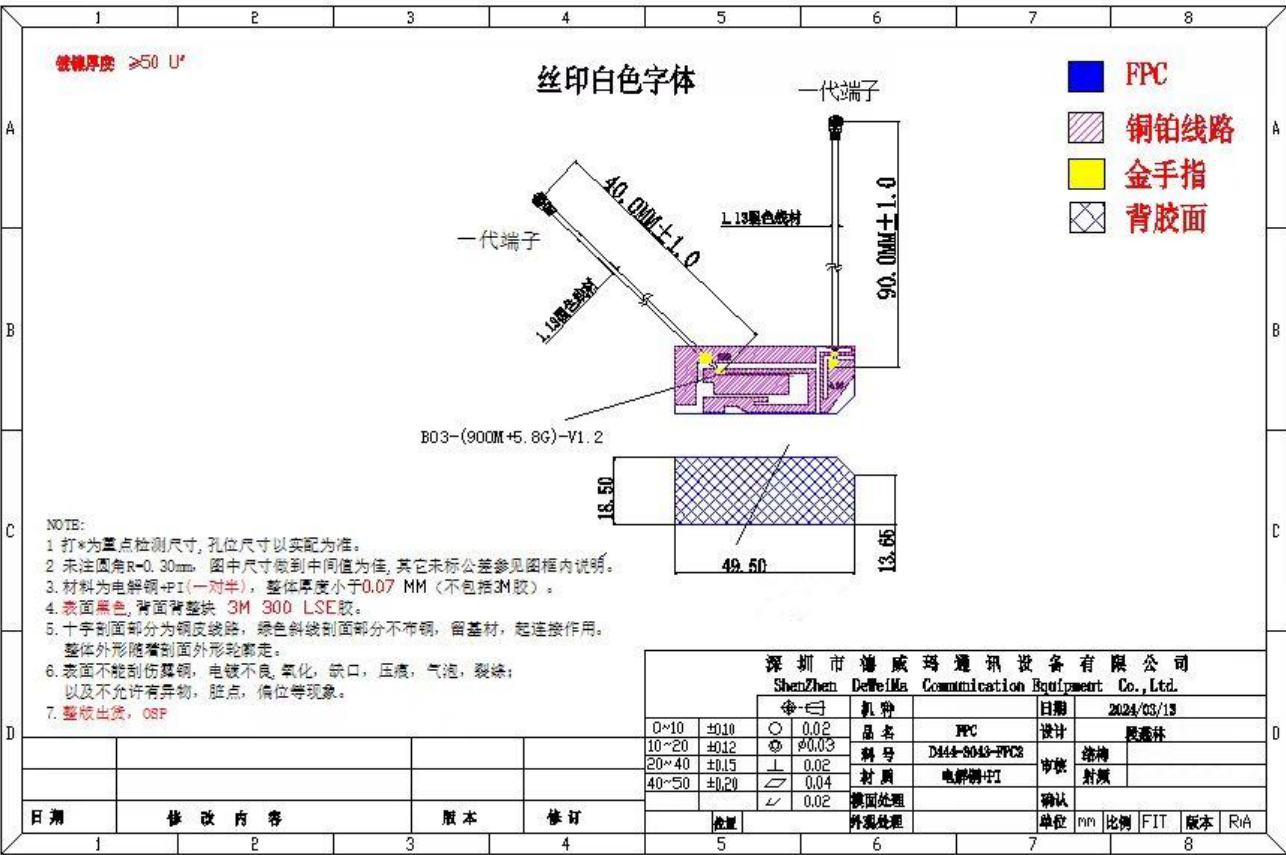
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4. Product photo



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

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5.2	Salt Spray	$5\pm0.1\%$ Nad salt fog PH Value: 6.5-7.2 Temp: $35\pm1^{\circ}\text{C}$ Time:24 hours	1. No color change. 2. the appearance of the antenna does not flake off.
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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: $5\sim30^{\circ}\text{C}$ Humidity: $\leq 70\%$

7. Packing metho

Bag shipment, 100pcs.