



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Gaoju Innovation
CUSTOMER Address	Floor 2, Building 6, Yuanlingzai Park, Hengping Road, Yuanshan Street, Longgang District, Shenzhen
CUSTOMER P/N	D04-(900M +5.8G)
PART NAME	WIFI Antenna
Material code	111601-00077
APPROVAL REV.	DWM-V1.1

CONTRACTOR			DATE: 2024-09-3
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
Gao Chunyan	Chen Yu Song	Qin Qiu Ming	Yu Qi Xue

CUSTOMER			DATE:
Approved By	Checked By	Prepared By	

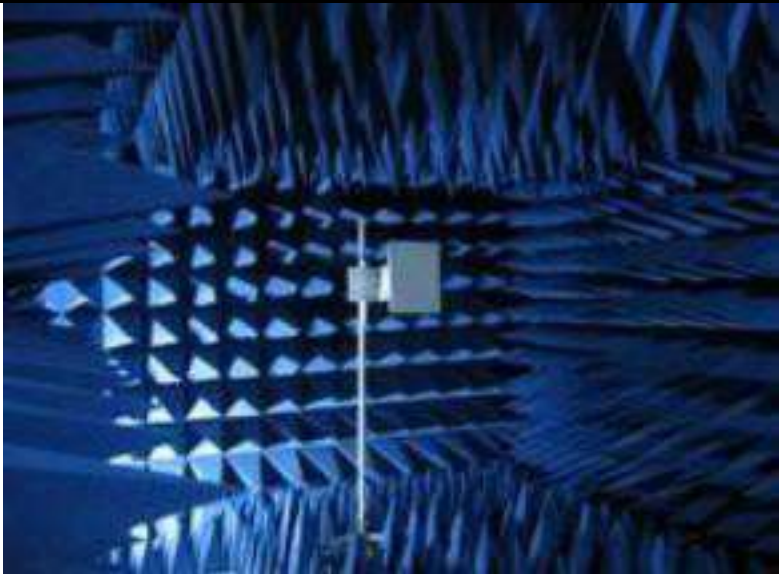
TEL: 13603094246

Content

SPECIFICATION	1
SHEET FOR APPROVAL	1
1. Product Application	3
2. The test environment, equipment.....	3
3. Technology Parameters	6
4. Product photo	13
5. Environmental Performance	14
6. Usage Precaution	14
7. Packing metho.....	14

		Product Specification		
		P/N:	Rev.: A	Page:
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	

			Product Specification		
			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: 890MHz~920MHz:-2dBi±1dBi 5150MHz~5850MHz:2dBi±1dBi Antenna efficiency: 890MHz~920MHz>35% 5150MHz~5850MHz>35%		
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment/测试设备			
					

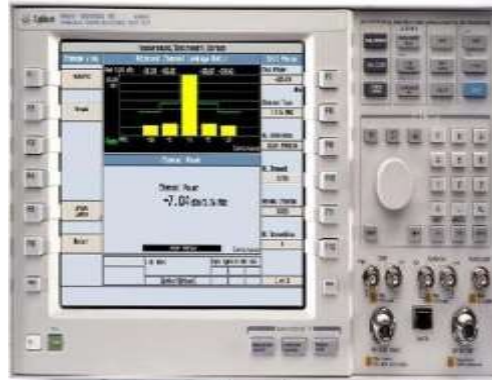
				Product Specification		
				P/N:	Rev.: A	Page:
						
2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960					

Product Specification

P/N:

Rev.:
A

Page:



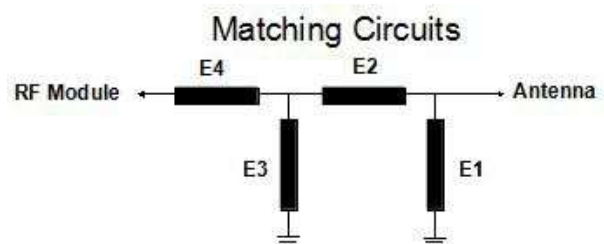
3. Technology Parameters

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

P/N:

Rev.:

Page:

A

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

Product Specification

P/N:

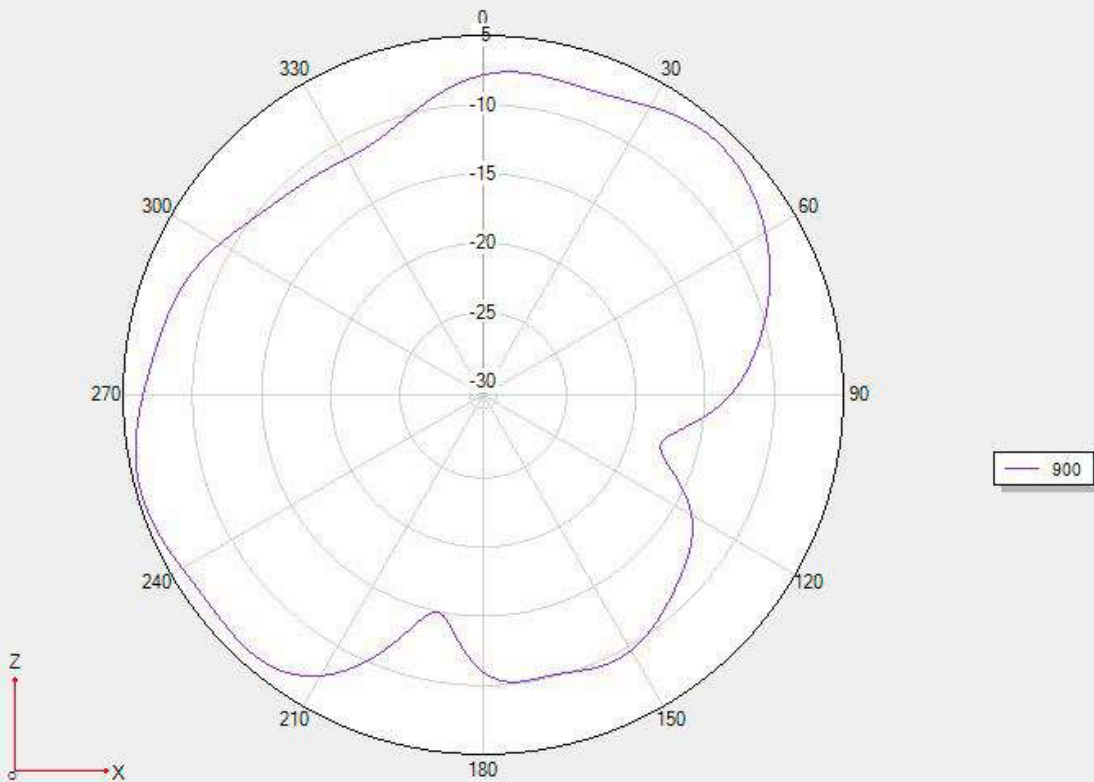
Rev.:
A

Page:

3.4 2D & 3D PHOTO

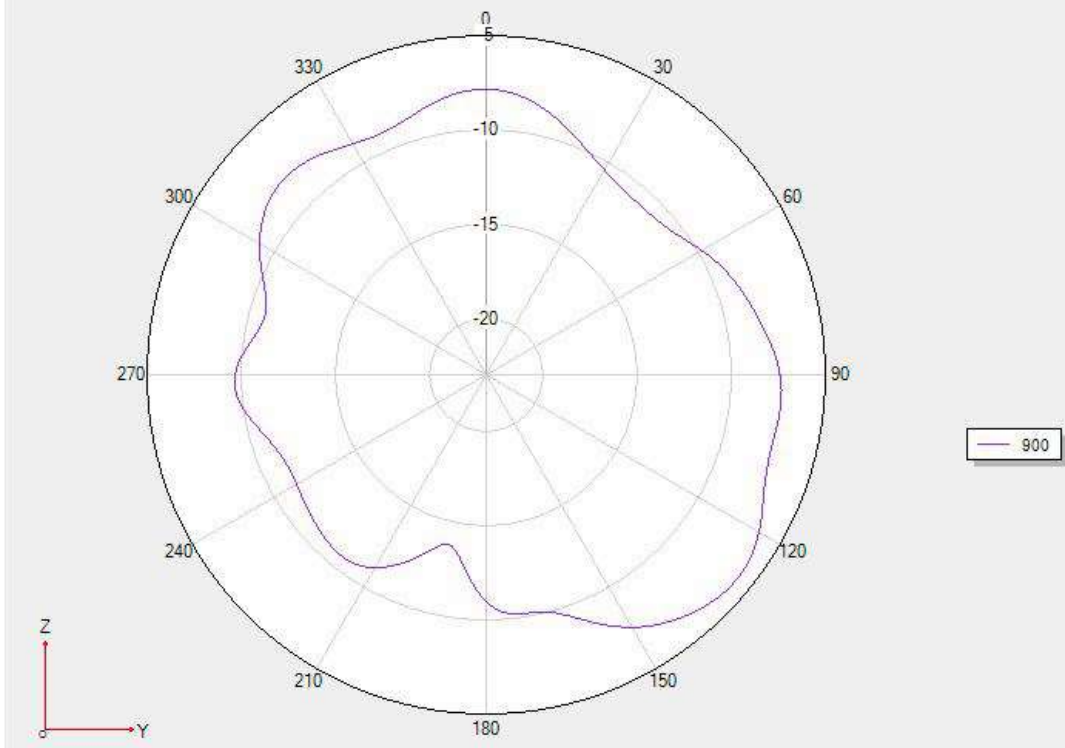
900M

PHi 0°



900M

PHi 90°



Product Specification

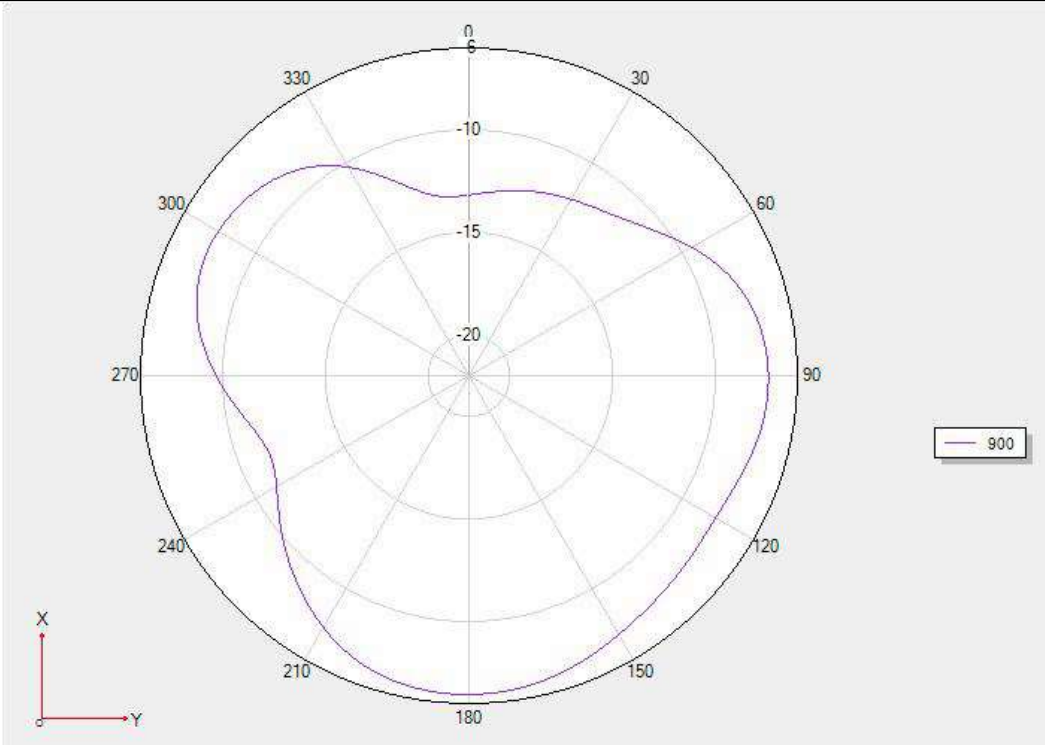
P/N:

Rev.:
A

Page:

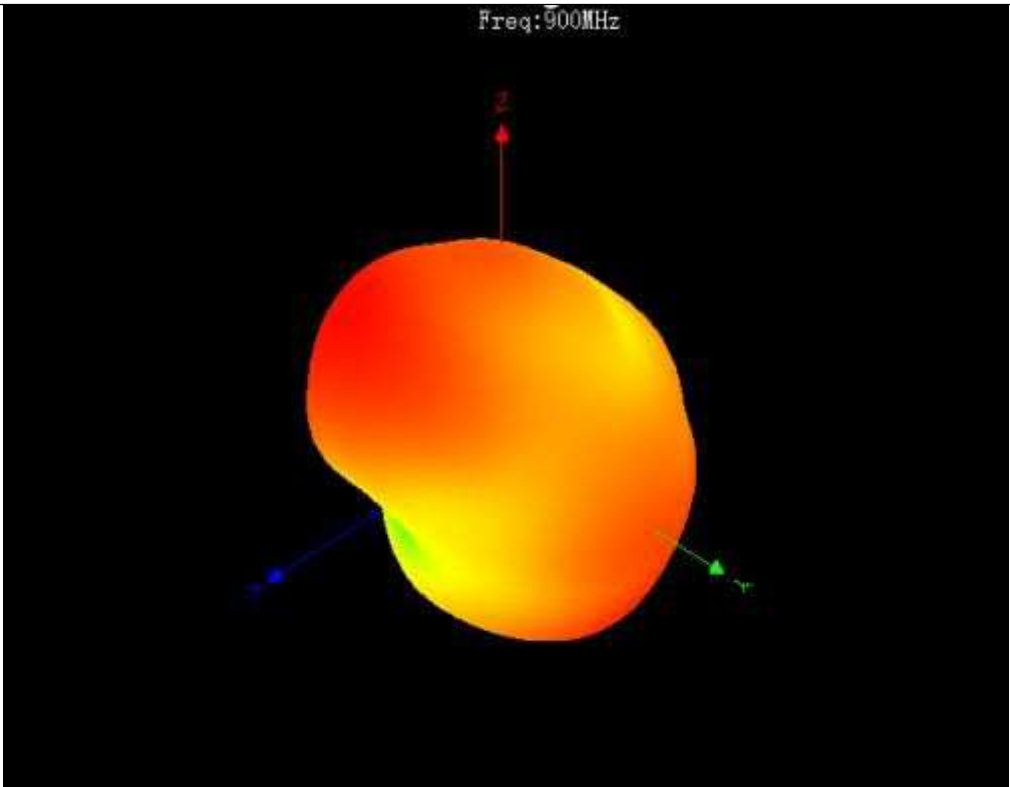
900M

Theta
90°



900M

(3D
Pattern)



		Product Specification	
		P/N:	Rev.: A
			Page:

VSWR 5.8

Frequency/Mhz	Efficiency / %	MaxGain/dBi
5150	39.64	2.79
5200	38.81	2.6
5250	39.59	2.6
5300	38.34	2.64
5350	38.96	2.18
5400	38.77	2.07
5450	38.71	1.57
5500	39.38	1.81
5550	38.12	1.62
5600	38.12	2.19
5650	39.44	2.28
5700	37.43	2.23
5750	36.11	1.96
5800	33.04	1.94
5850	35.66	1.86

Product Specification

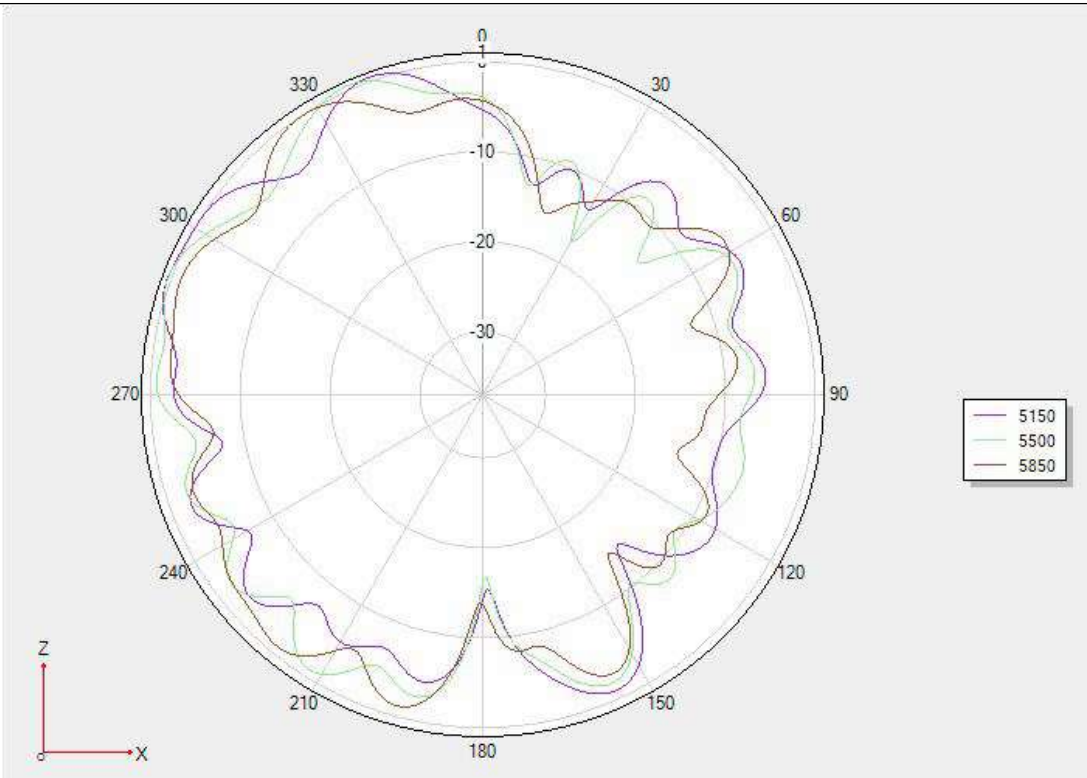
P/N:

Rev.:
A

Page:

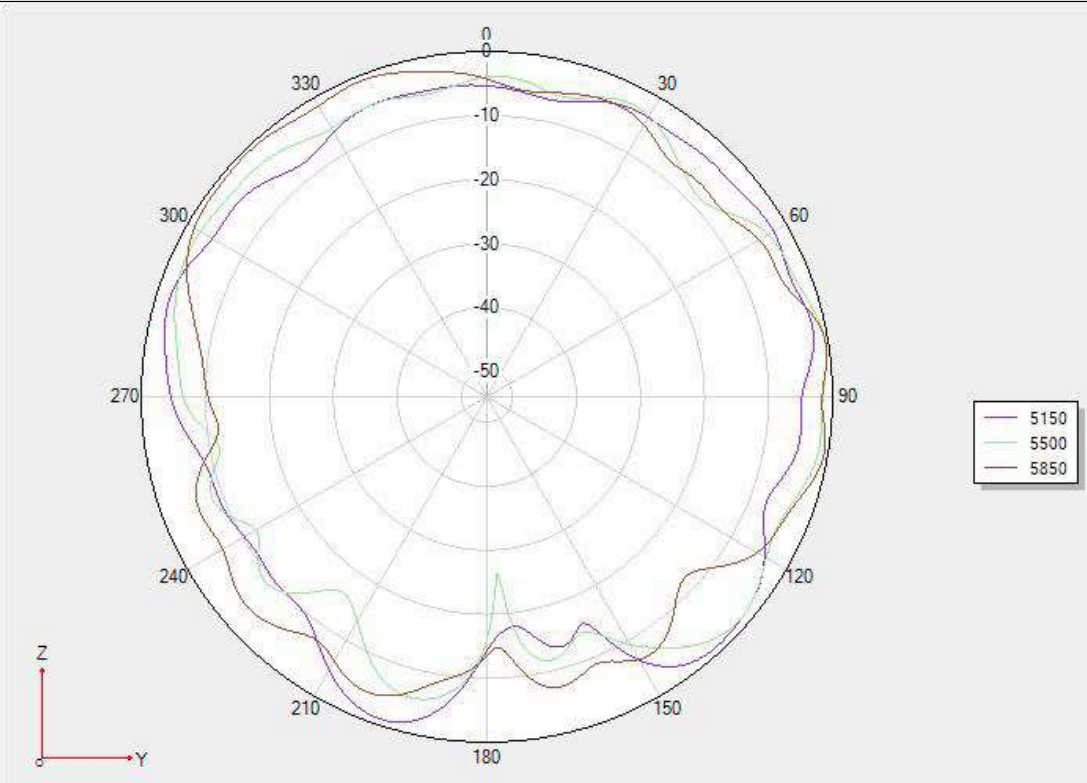
5.8G

PHi 0°



5.8G

PHi 90°



Product Specification

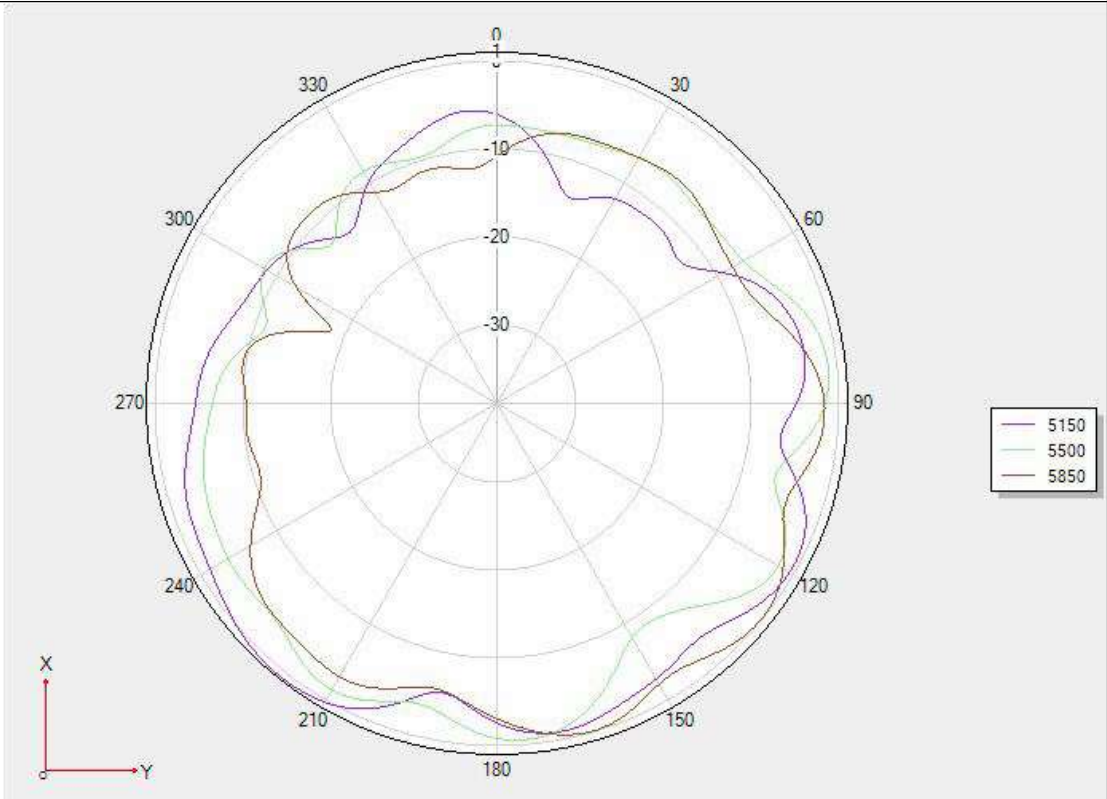
P/N:

Rev.:
A

Page:

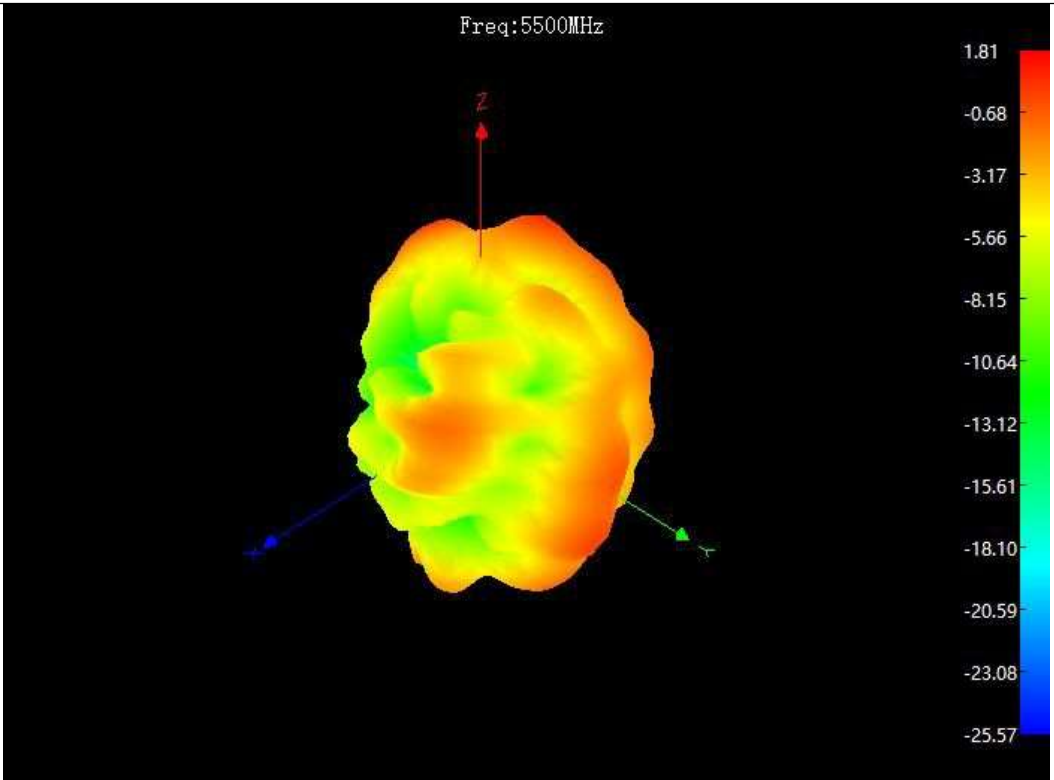
5.8G

Theta
90°



5.8G

(3D
Pattern)



	Product Specification		
	P/N:	Rev.: A	Page:

4. Product photo

		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% 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.