



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	NingBO Youhang
CUSTOMER P/N	<u>UX18 WIFI</u>
PART NAME	Suction cup antenna
Material code	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE: 2024-11-13
QA CHECKED	MR CHECKED	RF CHECKED	MANAGER CHECKED
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CUSTOMER		DATE:
Approved By	Checked By	Prepared By

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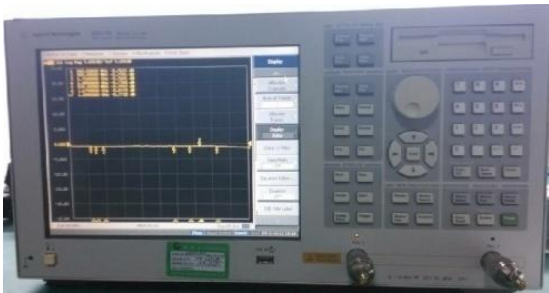
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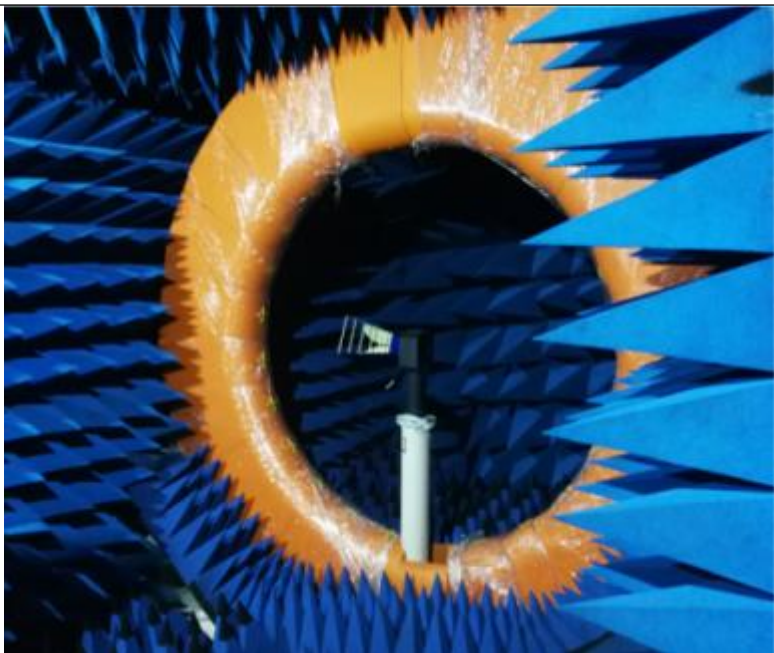
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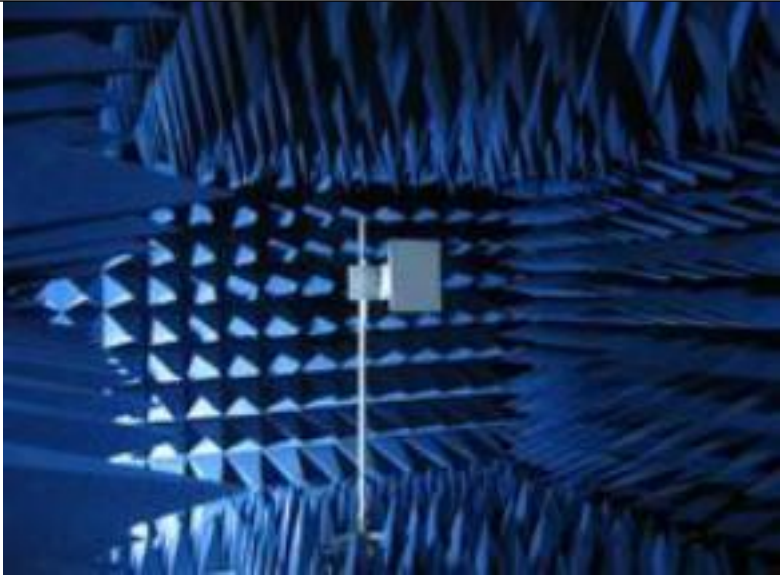
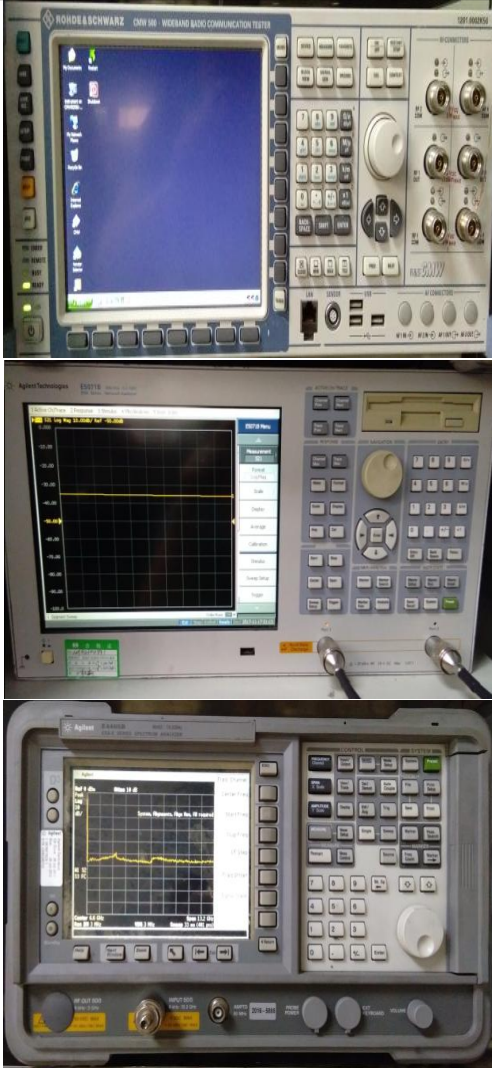
1. Product Application

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: 2400-2500MHz<2
		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: 2400-2500MHz: 2dBi Antenna efficiency: 2400-2500MHz >30%	
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment/测试设备		
				

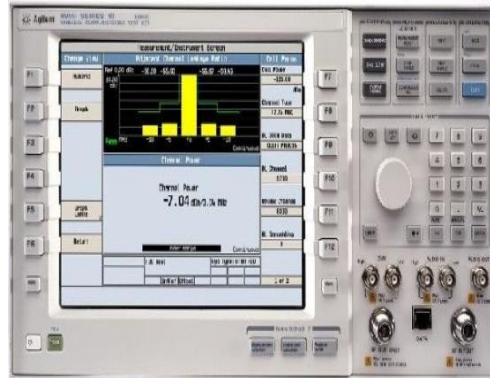
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2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960					

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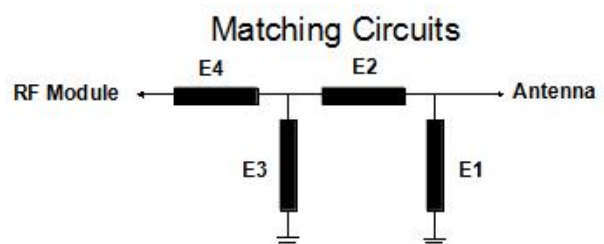
3. Technology Parameters

Frequency Range
Operating Humidity
Temperature Rating

2400-2500MHz
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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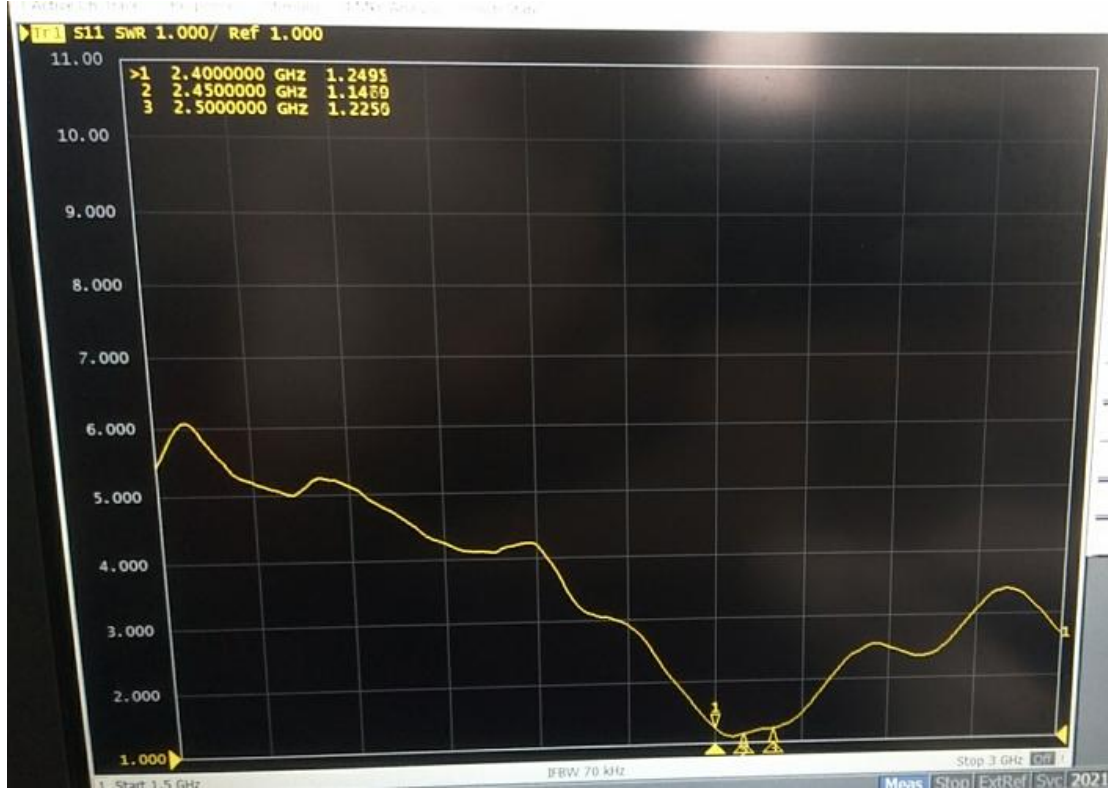
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3.2 VSWR

2400-2500MHz



3.3. Efficiency And Gain/效率和增益

Frequency(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0		
Peak Gain(dBi)	1.91	2.20	2.34	2.42	3.11	3.40	3.29	3.33	2.97	2.52	2.43		
Directivity(dBi)	9.16	9.59	9.53	9.59	10.01	10.05	9.99	10.19	10.28	9.92	9.77		
Average Gain(dBi)	-7.25	-7.40	-7.19	-7.16	-6.90	-6.65	-6.70	-6.86	-7.30	-7.39	-7.34		
Efficiency(%)	18.84	18.22	19.11	19.21	20.43	21.63	21.38	20.60	18.61	18.23	18.44		
Upper HEM , EIRP(dB)	-11.06	-11.36	-11.30	-11.50	-11.39	-11.38	-11.56	-11.89	-12.46	-12.42	-11.95		
Lower HEM , EIRP(dB)	-9.58	-9.63	-9.32	-9.16	-8.80	-8.43	-8.42	-8.50	-8.88	-9.03	-9.19		
Upper HEM , EIRP(%)	7.83	7.31	7.41	7.08	7.26	7.27	6.99	6.47	5.68	5.73	6.39		
Lower HEM , EIRP(%)	11.02	10.90	11.70	12.13	13.17	14.36	14.39	14.13	12.93	12.50	12.06		
Peak Gain @ Theta(degree)	-168.00	-168.00	-168.00	-168.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00		
Peak Gain @ Phi(degree)	122.00	122.00	124.00	122.00	36.00	38.00	38.00	40.00	42.00	44.00	46.00		
Null @ Phi(degree)	-74.00	-20.00	18.00	70.00	72.00	-74.00	-72.00	-74.00	-74.00	-86.00	-86.00		
Null @ Theta(degree)	124.00	176.00	0.00	90.00	88.00	124.00	124.00	122.00	120.00	172.00	170.00		
Roundness @90degree	13.13	12.59	12.58	12.45	12.14	12.58	13.48	15.11	16.50	18.60	18.11		
Roundness @60degree	16.02	16.38	16.00	14.25	13.57	13.21	12.95	12.06	10.45	8.68	8.37		
Roundness @30degree	12.69	14.77	17.88	18.93	16.14	13.03	11.40	11.00	12.62	17.31	14.44		

Product Specification

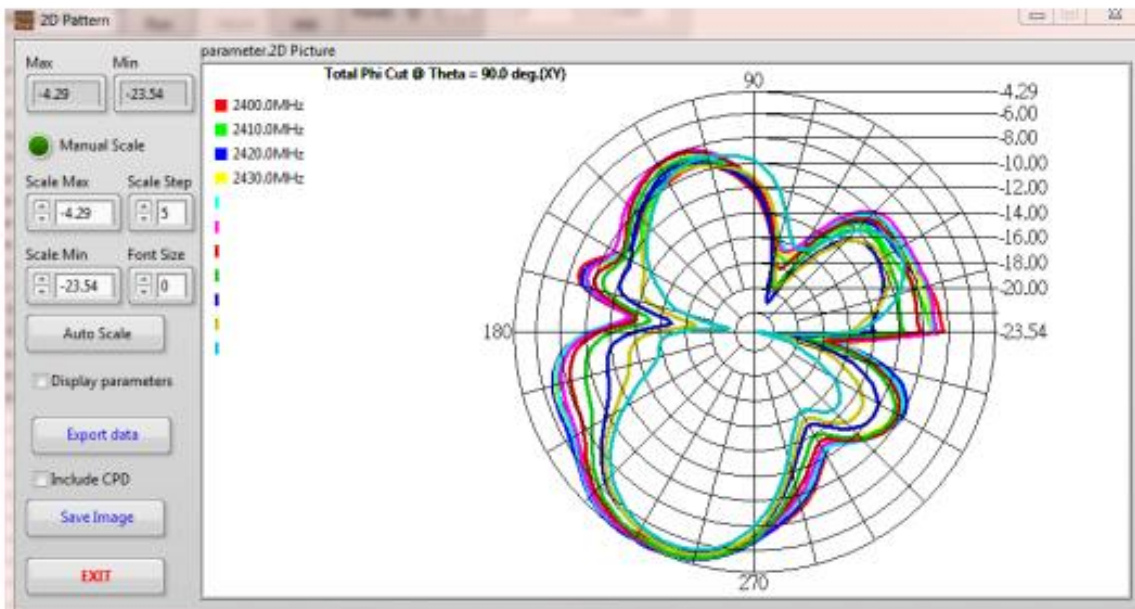
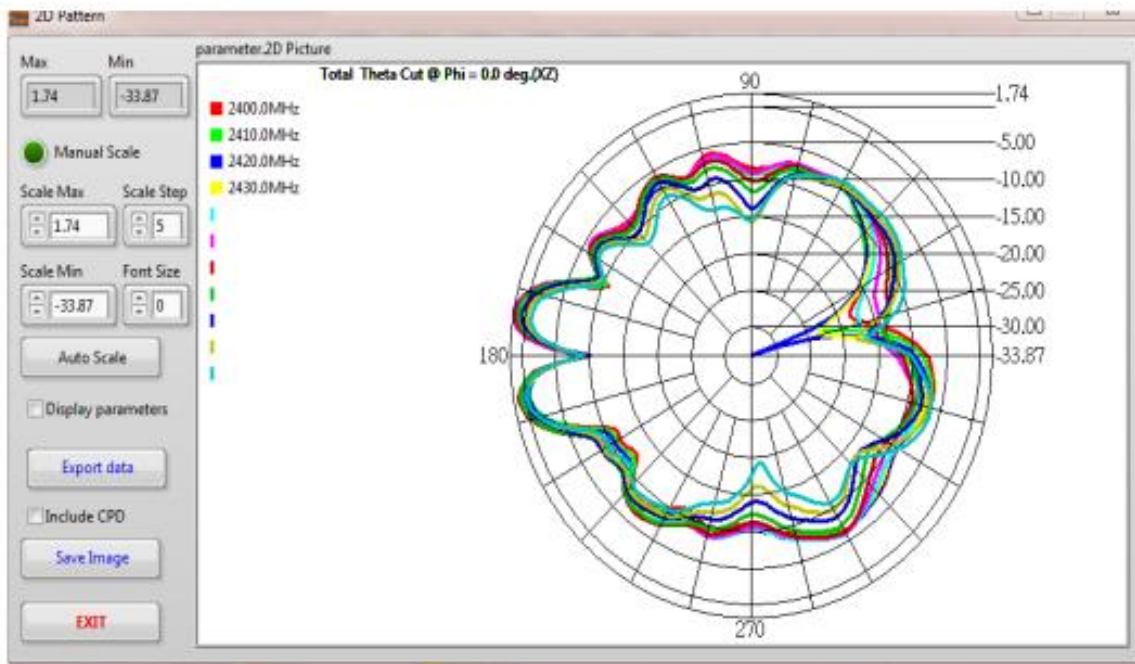
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3.4 2D & 3D PHOTO



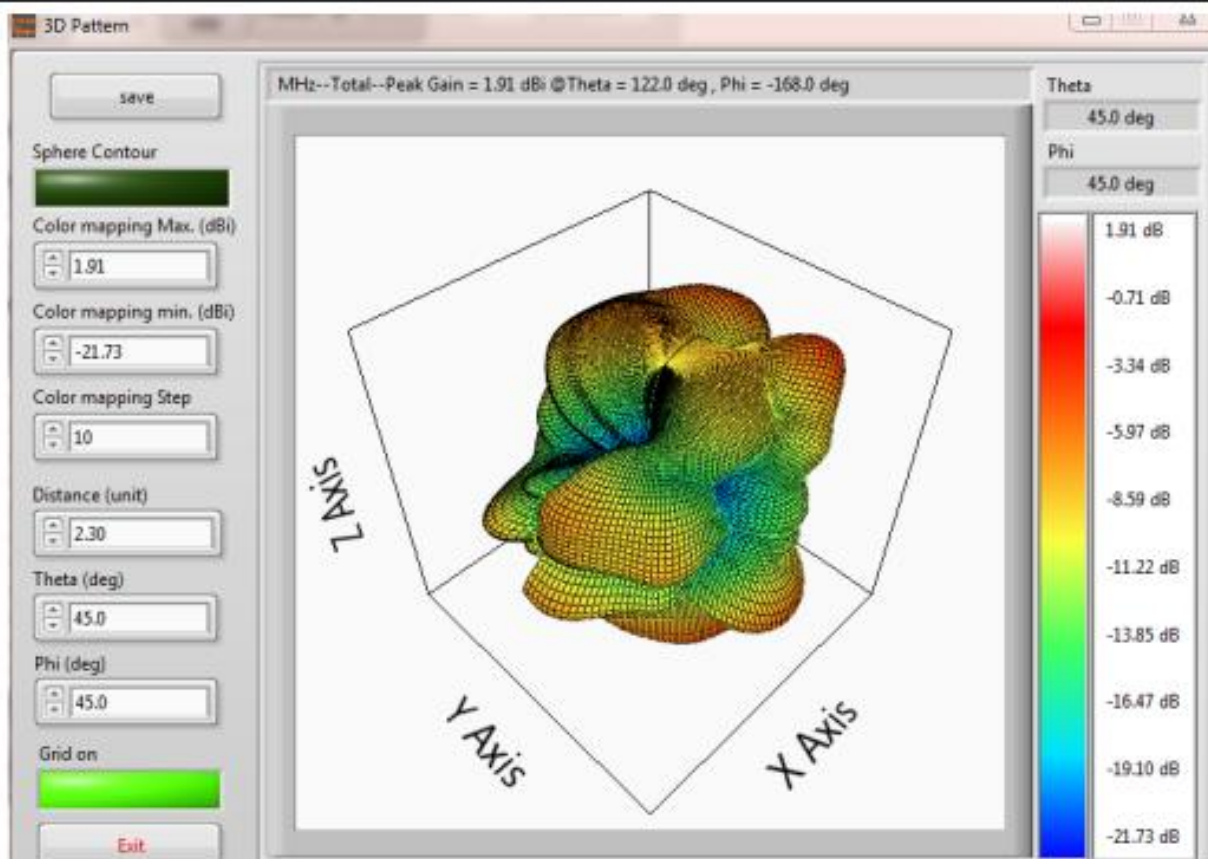
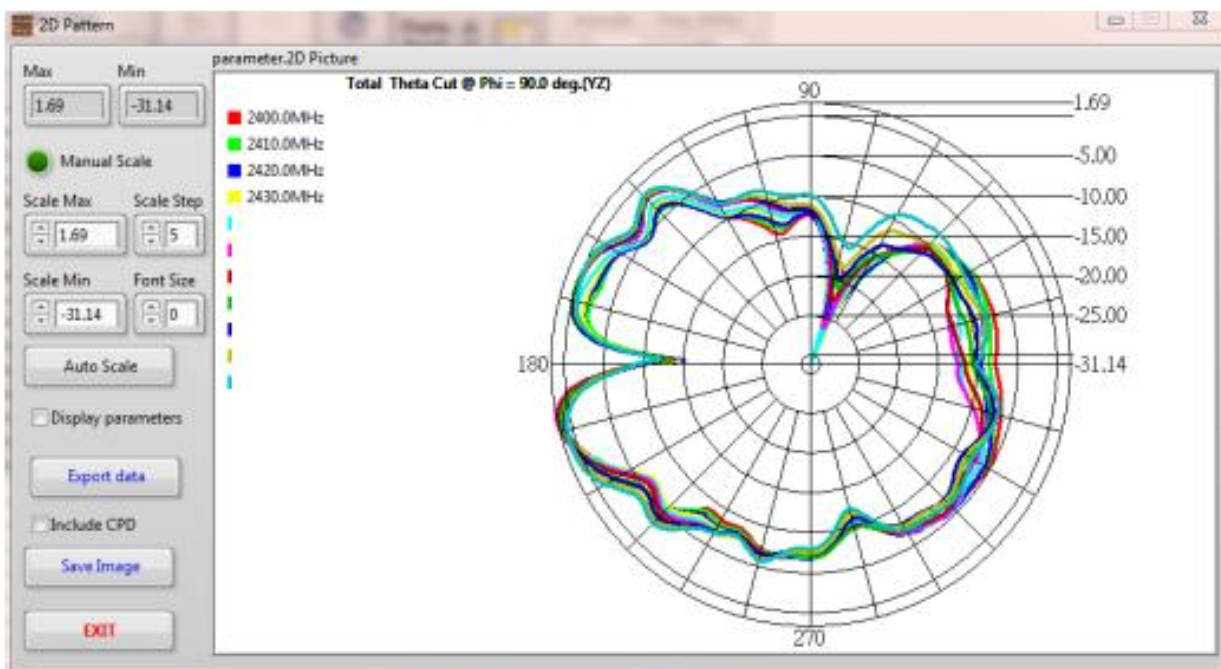
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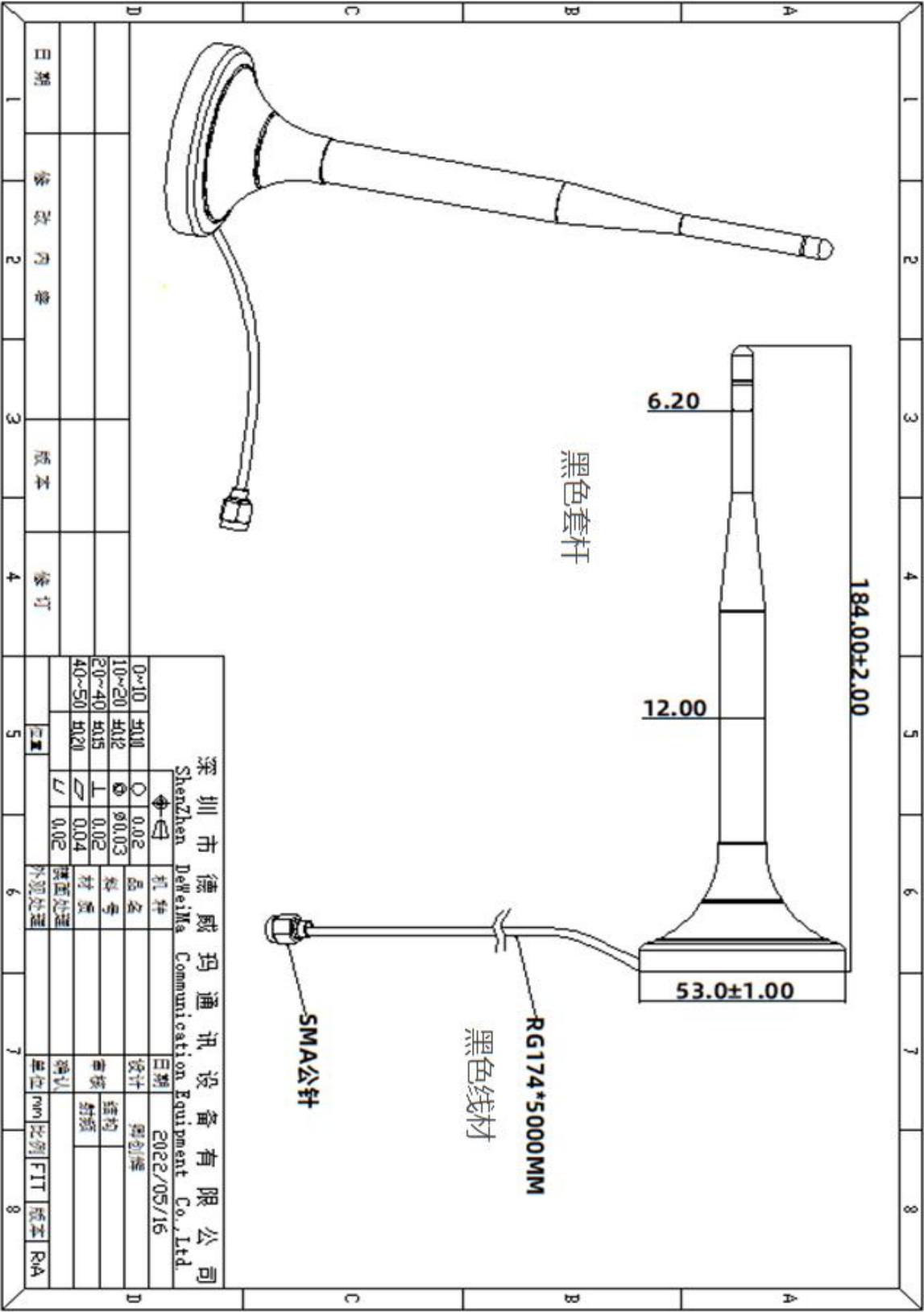
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4. Product photo



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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℃ Humidity:≤70%

7. Packing metho

Bag shipment, 100pcs.