



Shenzhen DEWEIMA Communication Equipment Co.Ltd

ANTENNA SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Faruixin company
CUSTOMER P/N	17 Cun digital photo frame
PART NAME	WIFI Antenna
Material code	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE: 2024-08-15
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED
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CUSTOMER		DATE:
Approved By	Checked By	Prepared By

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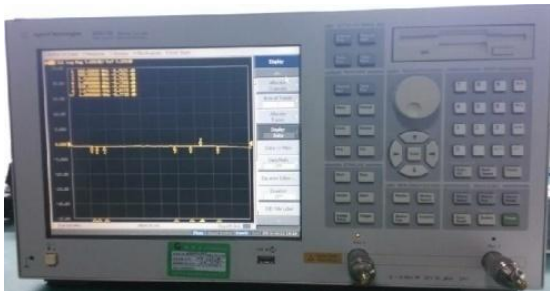
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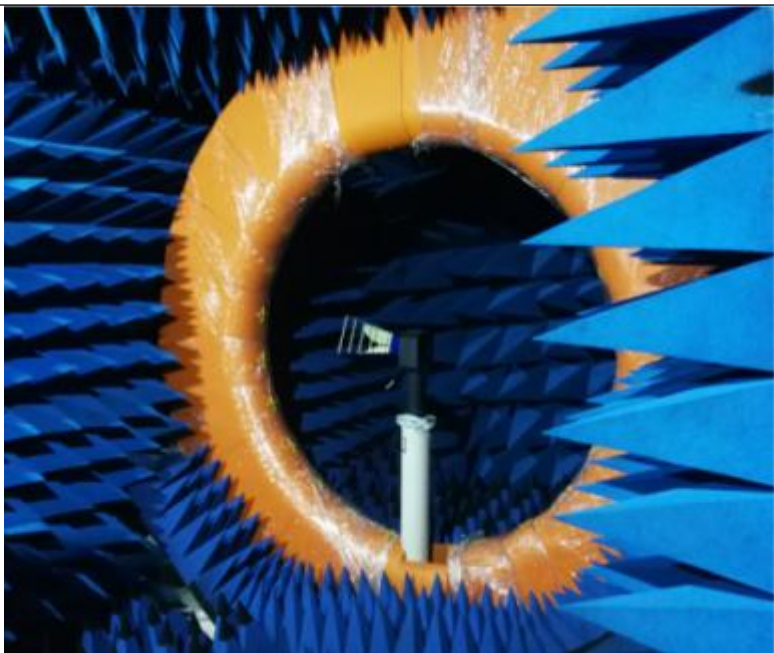
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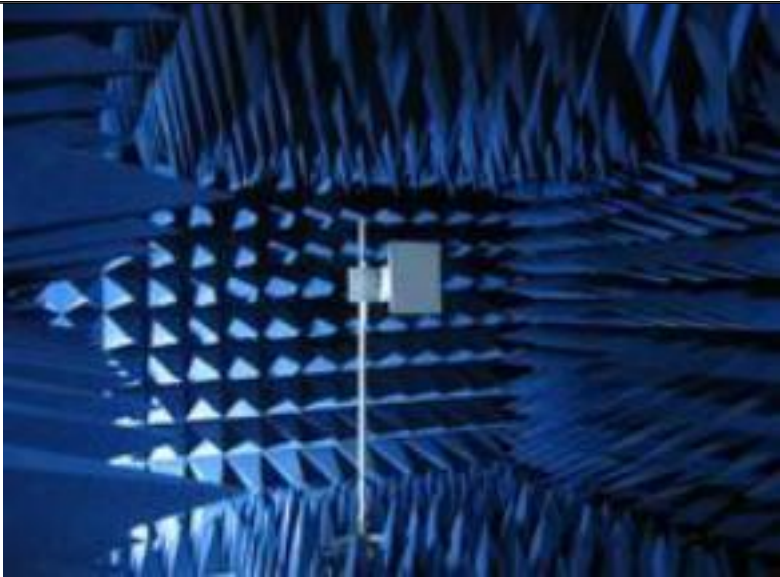
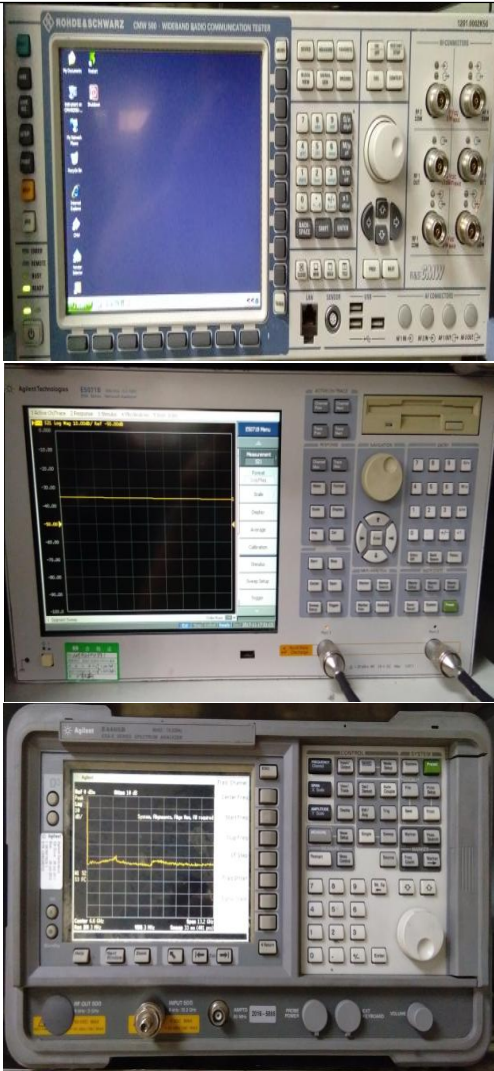
1. Product Application

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: 2400MHz~2500MHz<2 5150MHz~5850MHz<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 efficiency: 2400MHz~2500MHz>45% 5150MHz~5850MHz>45%	
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment/测试设备		
				

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2.4	CMW500 Agilent5071B AgilentE4405B Agilent8960					

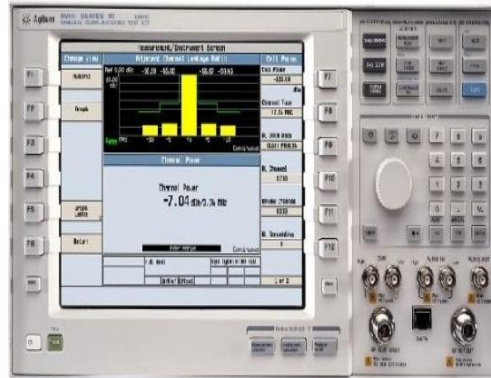
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3. Technology Parameters

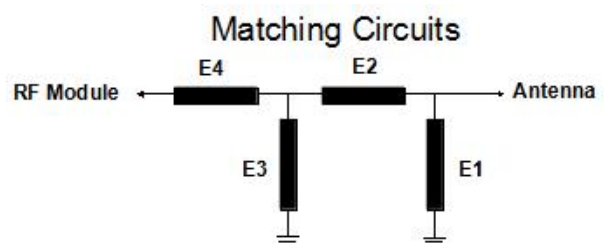
Frequency Range
Operating Humidity
Temperature Rating

2400MHz~2500MHz&5150MHz~5850MHz
85% R.H.MAX
-40℃~+85℃

Antenna Type:FPC Antenna

3.1 The matching test value

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



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3.2 VSWR

2400MHz~2500MHz

5150MHz~5850MHz



3.3. Efficiency And Gain/效率和增益

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	46.34	2.9
2410	45.71	3.03
2420	47.53	3.15
2430	47.64	2.98
2440	46.77	2.8
2450	47.75	2.9
2460	47.97	3.02
2470	46.88	3.23
2480	47.42	3.29
2490	48.42	3.2
2500	46.56	3.15
5150	45.92	2.95
5200	45.29	3.18
5250	44.57	3.42

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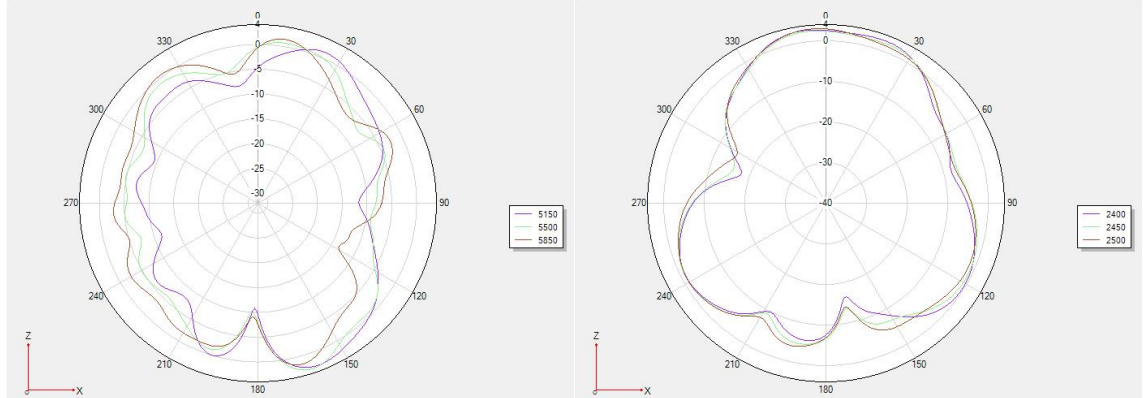
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5300	43.45	3.27
5350	43.65	3.01
5400	42.46	2.85
5450	42.76	3.24
5500	45.08	3.34
5550	44.67	2.52
5600	44.16	2.98
5650	46.45	3.14
5700	48.64	3.61
5750	48.19	3.29
5800	48.75	3.8
5850	48.53	3.26

3.4 2D & 3D PHOTO

PHi 0°



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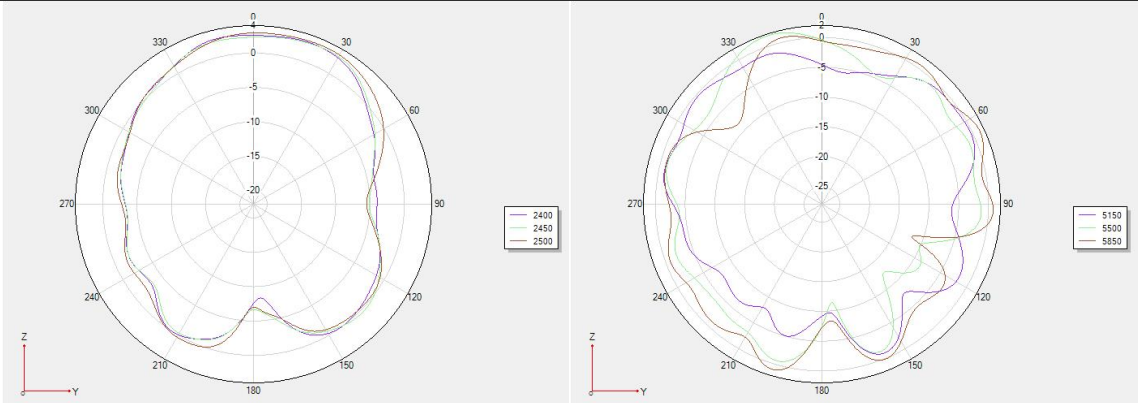
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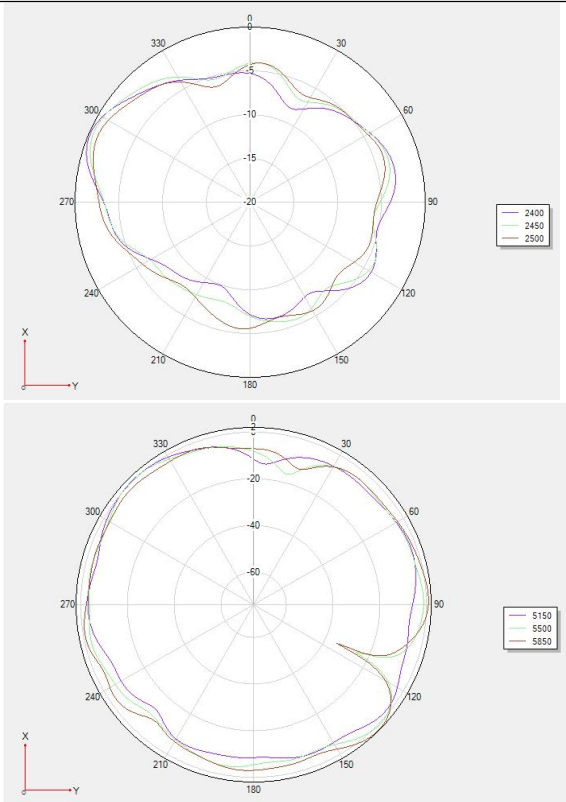
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PHi 90°



Theta 90°



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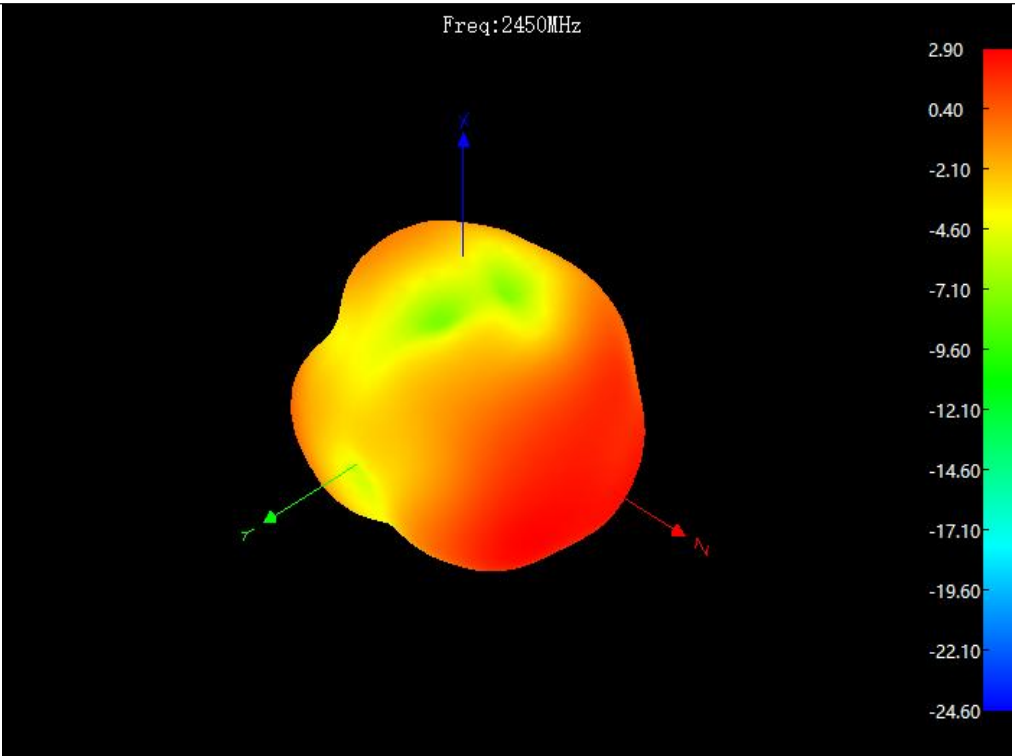
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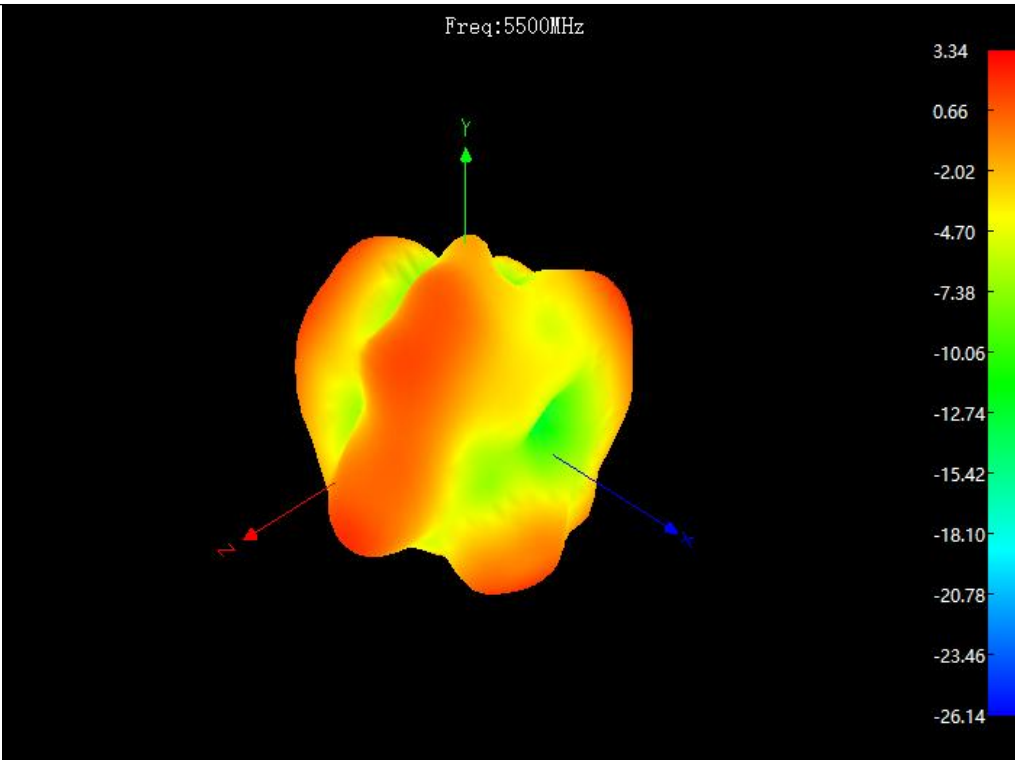
2.4G

(3D
Pattern)



5.8G

(3D
Pattern)



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OTA:

	Mode	Channel	Test Data	
			TRP	TIS
WIFI	IEEE 802.11b	1	14.86	
		6	14.74	
		11	14.82	-81.15
	IEEE 802.11a	36	15.04	
		100	14.67	
		165	14.12	-68.15
	Mode	Channel	Test Data	
			TRP	TIS
WIFI	IEEE 802.11ax	36	14.21	
		100	13.89	
		165	14.34	-65.34

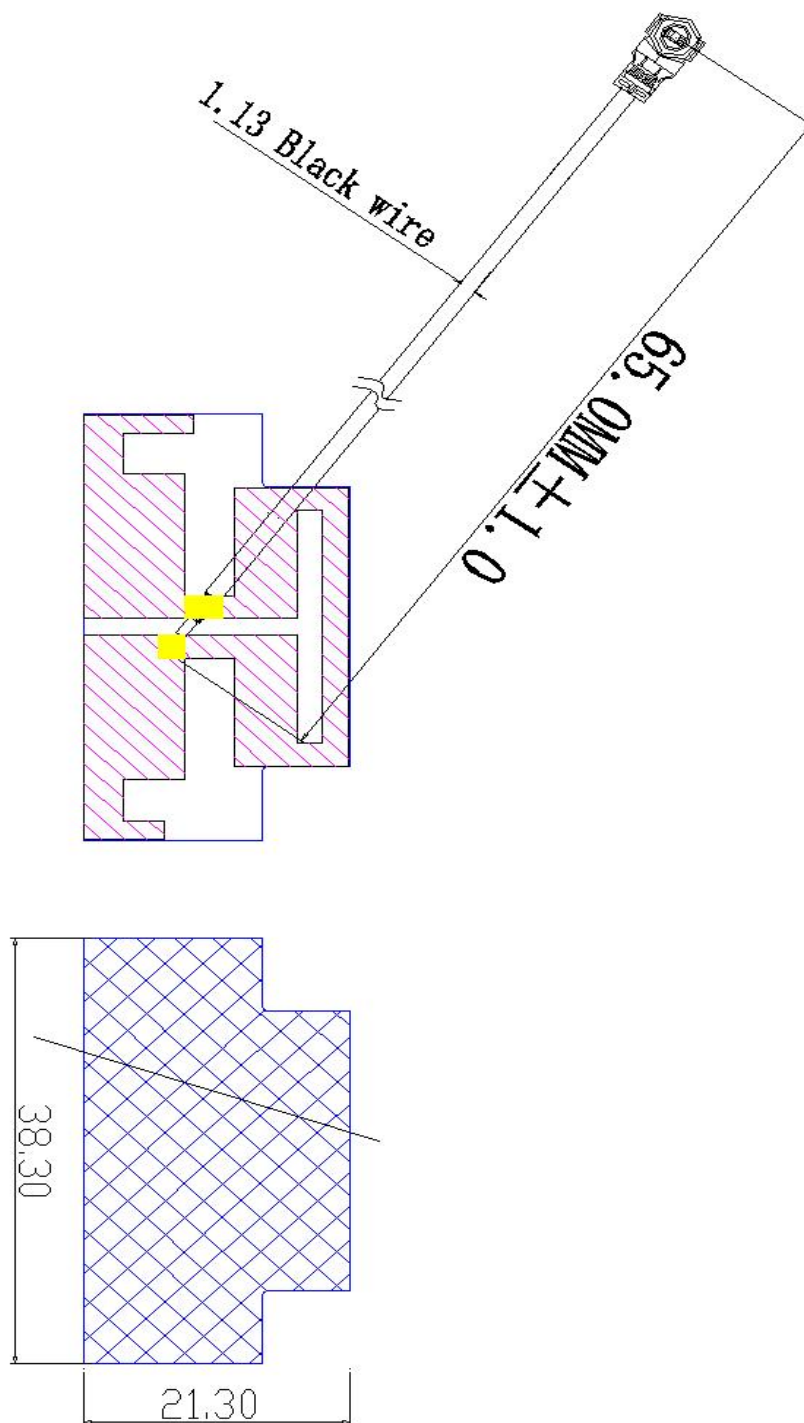
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4. Product photo



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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.