

SPECIFICATION FOR APPROVAL

CUSTOMER :	yuanchuan
PART NAME :	WiFi dual frequency 5dbi antenna
PART NO. :	
DZZ NO. :	N12-7419-R0A
REV. :	1.0

	MANUFACTURERR SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY:		
DATE:		

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Antenna Design for WiFi dual frequency 5dbi antenna V1.0

Document Number	DZZ-202230919
1st Released Date	13/09/2023
Author	Huiping Feng
Review By	Huiping Feng

Antenna Assembly

Specification(With housing)

1.Electrical Properties

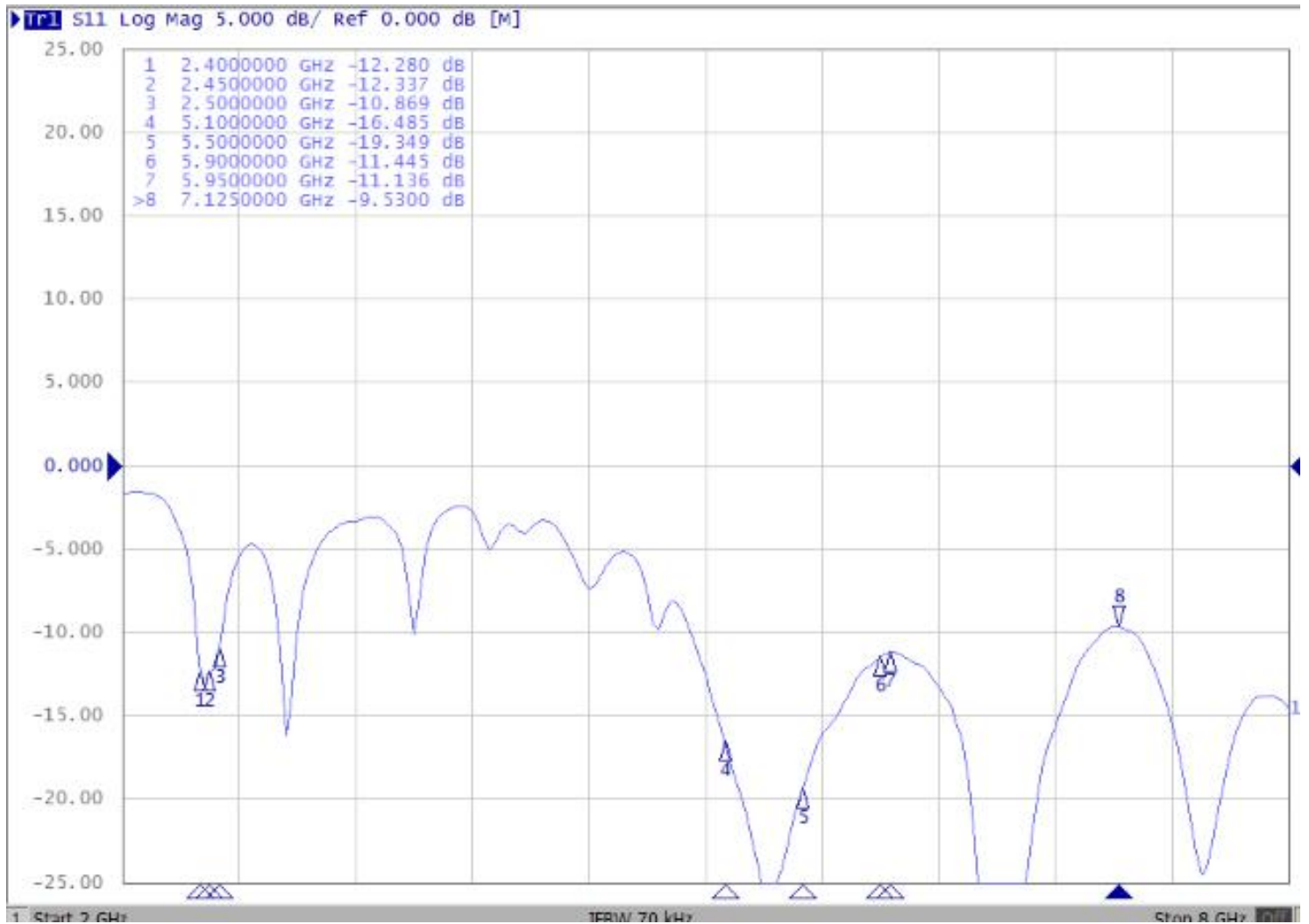
1.1 Frequency range.....	2.4G~2.5G&5.1G~5.9G
1.2 Impedance.....	50Ω Norminal
1.3 VSWR	≤2
1.4 Return Loss	≤-10dBm
1.5 Radiation.....	Omni
1.6 peak Gain.....	5dBi
1.7 Polarization.....	Linear
1.8 Admitted Power.....	1W
1.9 Cable.....	NONE

2.Physical Properties

2.1 Working Temperature.....	-30°C~+75°C
2.2 Storage Temperature.....	-30°C~+75°C

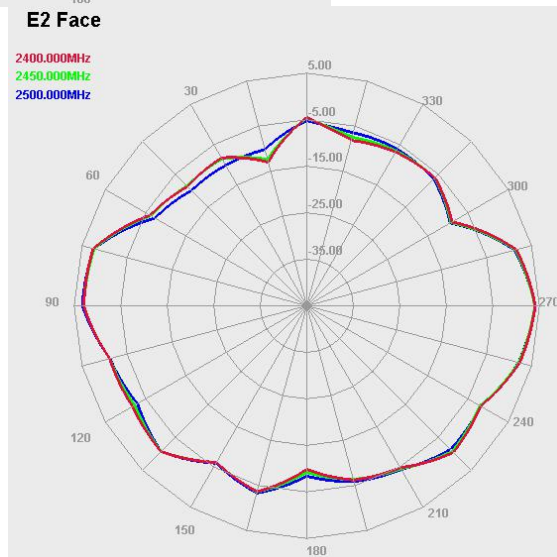
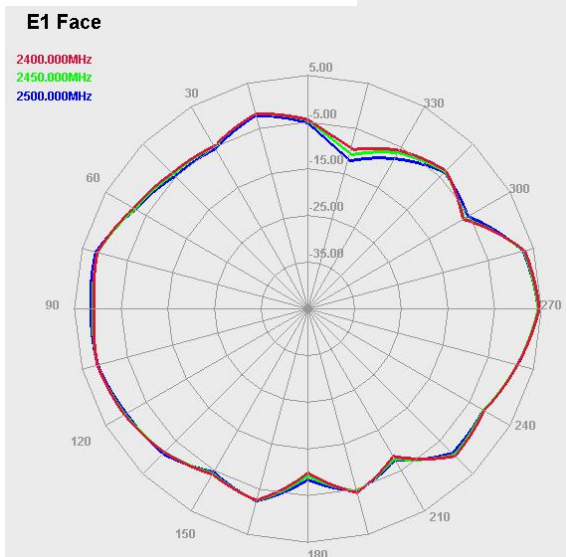
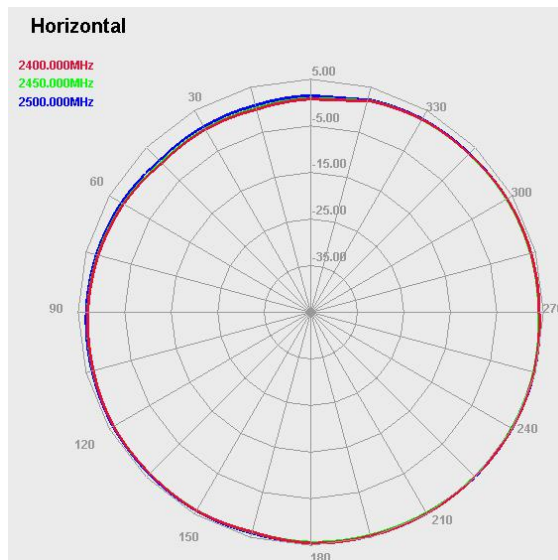
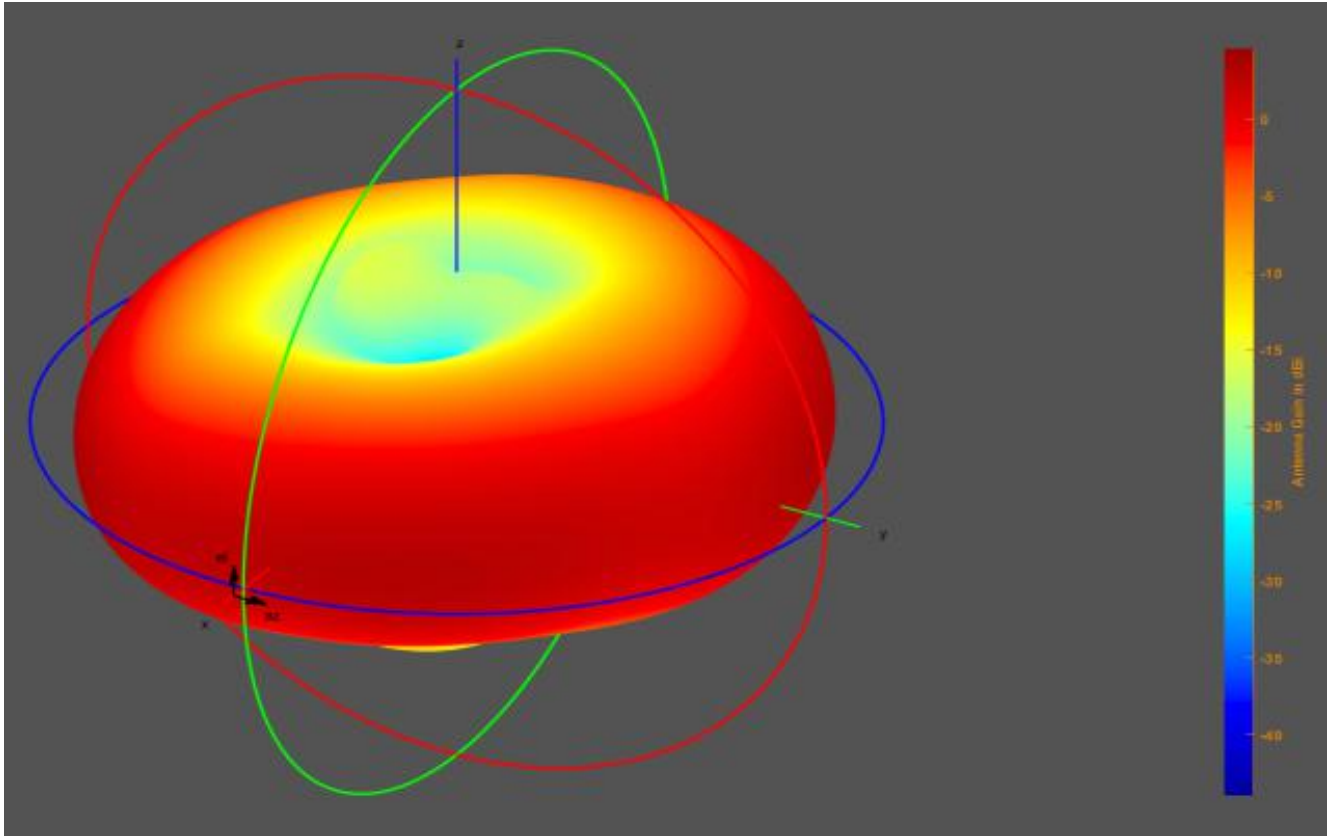
1. Analyzer Measurement

1.1 S11 test results

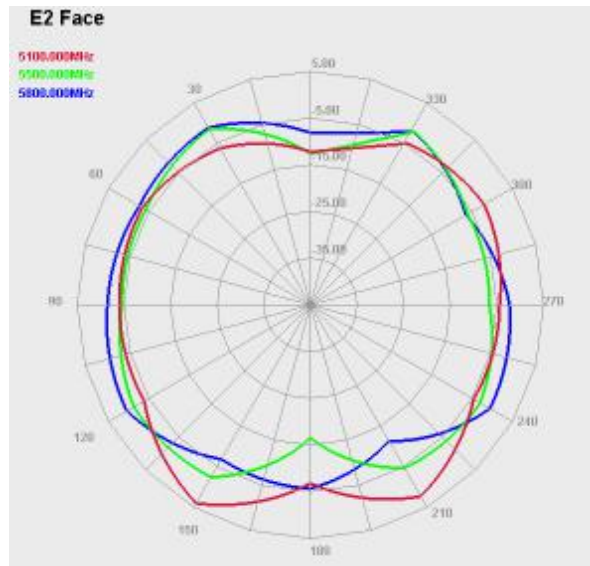
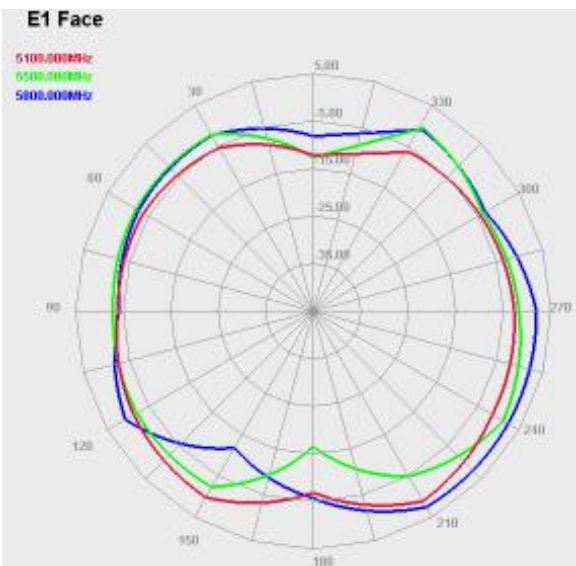
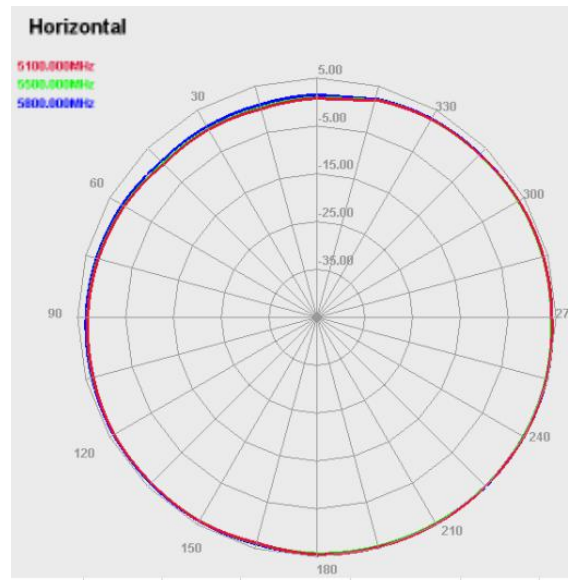
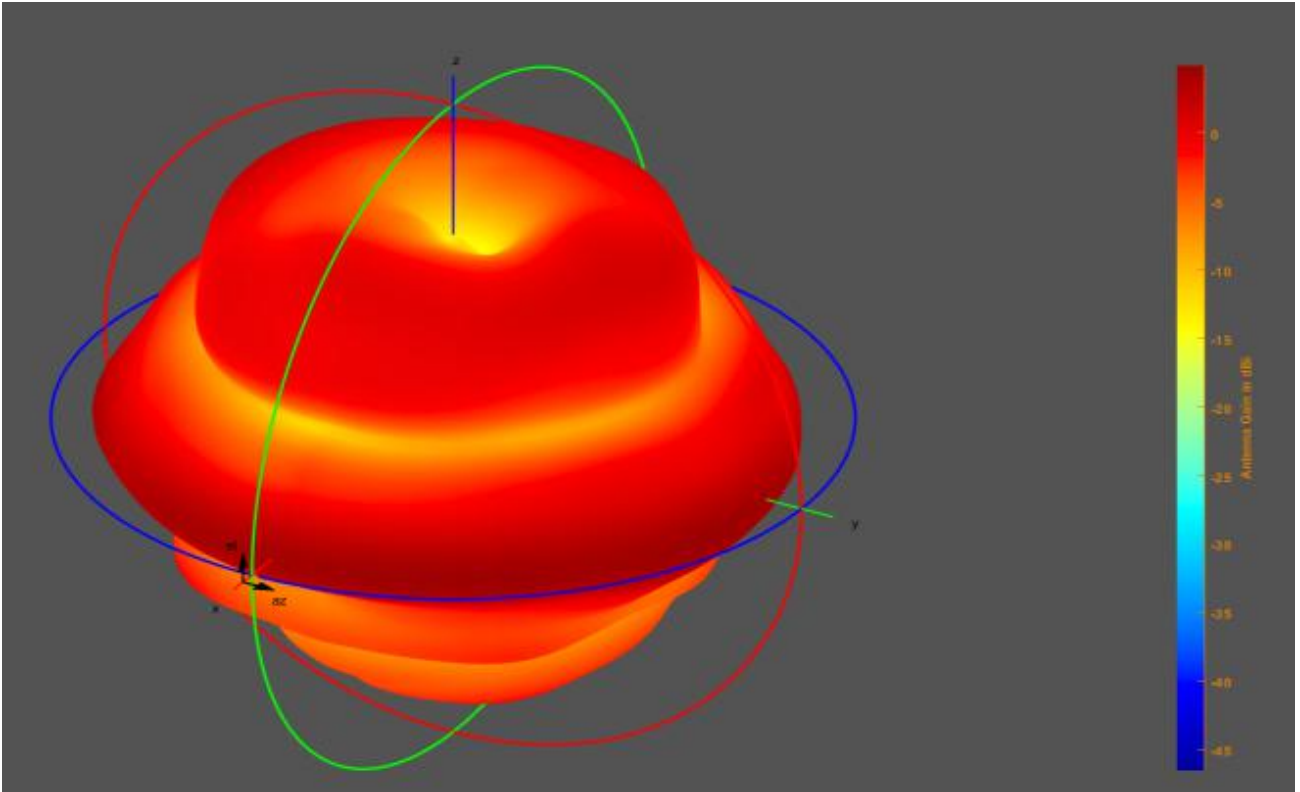


2. 2D&3D

2.1 2.4G

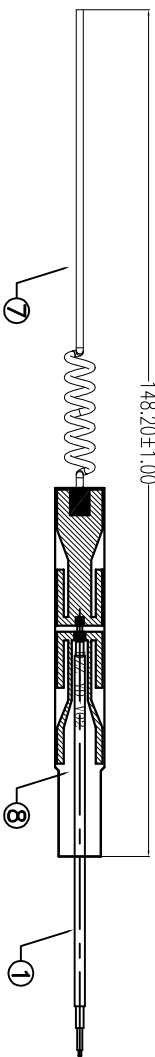
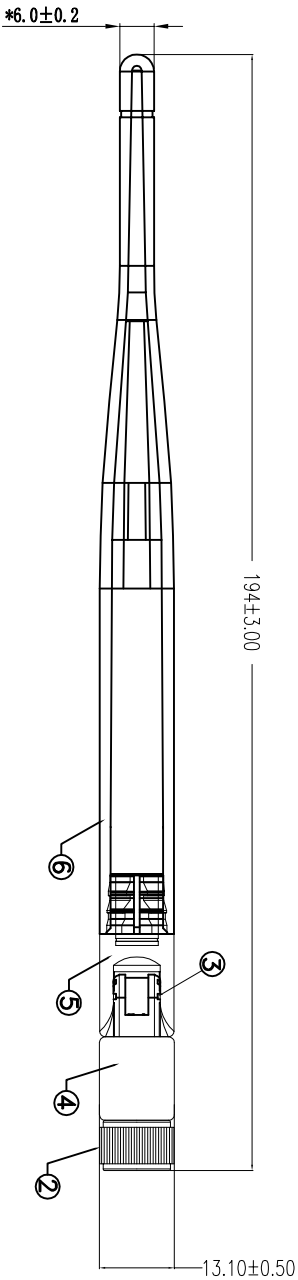
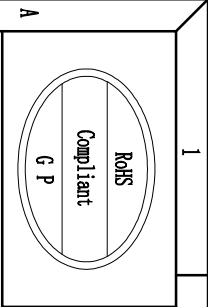


2.2 5G



3. Passive Data

Freq (MHz)	Effi (%%)	Gain (dBi)
2400	76.22	4.81
2410	77.89	4.87
2420	78.52	4.92
2430	78.86	4.98
2440	78.91	4.99
2450	78.57	5.02
2460	78.24	5.01
2470	77.76	4.97
2480	77.58	4.92
2490	76.39	4.91
2500	76.25	4.83
5100	66.05	4.85
5200	66.82	4.89
5300	67.95	5.01
5400	69.85	5.05
5500	72.02	5.06
5600	70.42	5.01
5700	69.91	4.95
5800	66.27	4.93
5900	66.07	4.83



No.	Name	Material	Color	Treatment	Amount	Remark
1	射频线	RG178 RF line	Brown		1	
2	SMA base	SMA male needle with 1.78 line	Black		1	
3	fixed leg	PC+PBT	Black		2	
4	Lower fixing seat	PC+PBT	Black		1	
5	Upper fixing seat	PC+PBT	Black		1	
6	Sleeve	TPE	Black		1	
7	Spring	Brass	Yellow		1	
8	PCB	FR4	Green		1	

- Remark: remarks: comment
1. Marked with "*" as the key size, the unmarked tolerance size is tested according to ± 0.15
 2. Please refer to the drawing if the dimensions are not marked.
 3. RoHS compliant
 4. Shipping method: Single shipment

Rev		Description		Date		Remark	
1	A	New drawing					

Project		Dual frequency		Date		2023.9.19	
PartName		external antenna3		Designed by			
Part No.		MI2-7419-ROA		Checked by		MD tianjin	
Material		N/A		Approved by		RF fengnuping	
Location		N/A		Unit		mm Scale 1:1 Rev A	

Shenzhen free technology Co., LTD

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Product packaging specification

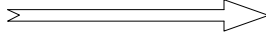
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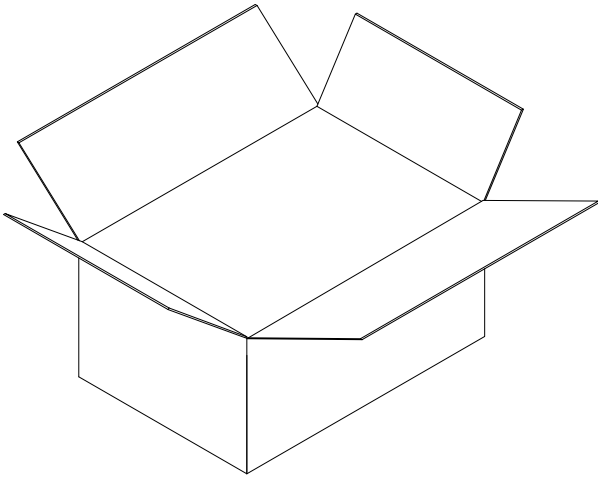
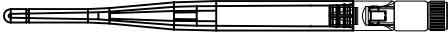
版本: A

Product name: External antenna

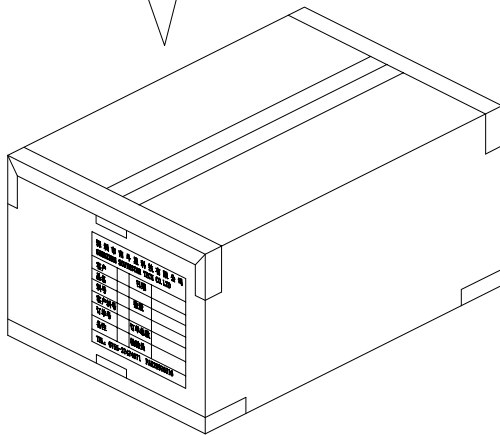
一: Finished antenna



Two: Put it in a PE bag



4. The actual packing shall prevail



Four: The box is sealed, and the outer box is affixed with our production label and ROHS label.

批准: _____

确认: _____

拟制: tianjin

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11:44 2023/09/11 星期三