

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:		

Shenzhen be-comfortable technology.co.,LTD

Address: No.1606,Build C6,HengFeng industrial city,xixiang
street,baoan district,Shenzhen

shanghai mengju technology co., LTD

103B, Build10, No.198 Zhang Heng Road , Pudong New
Area,Shanghai

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

Document Number	DZZ-20250207
1st Released Date	13/09/2023
Author	Huiping Feng
Review By	Huiping Feng

Antenna Assembly

Specification(With housing)

1.Electrical Properties

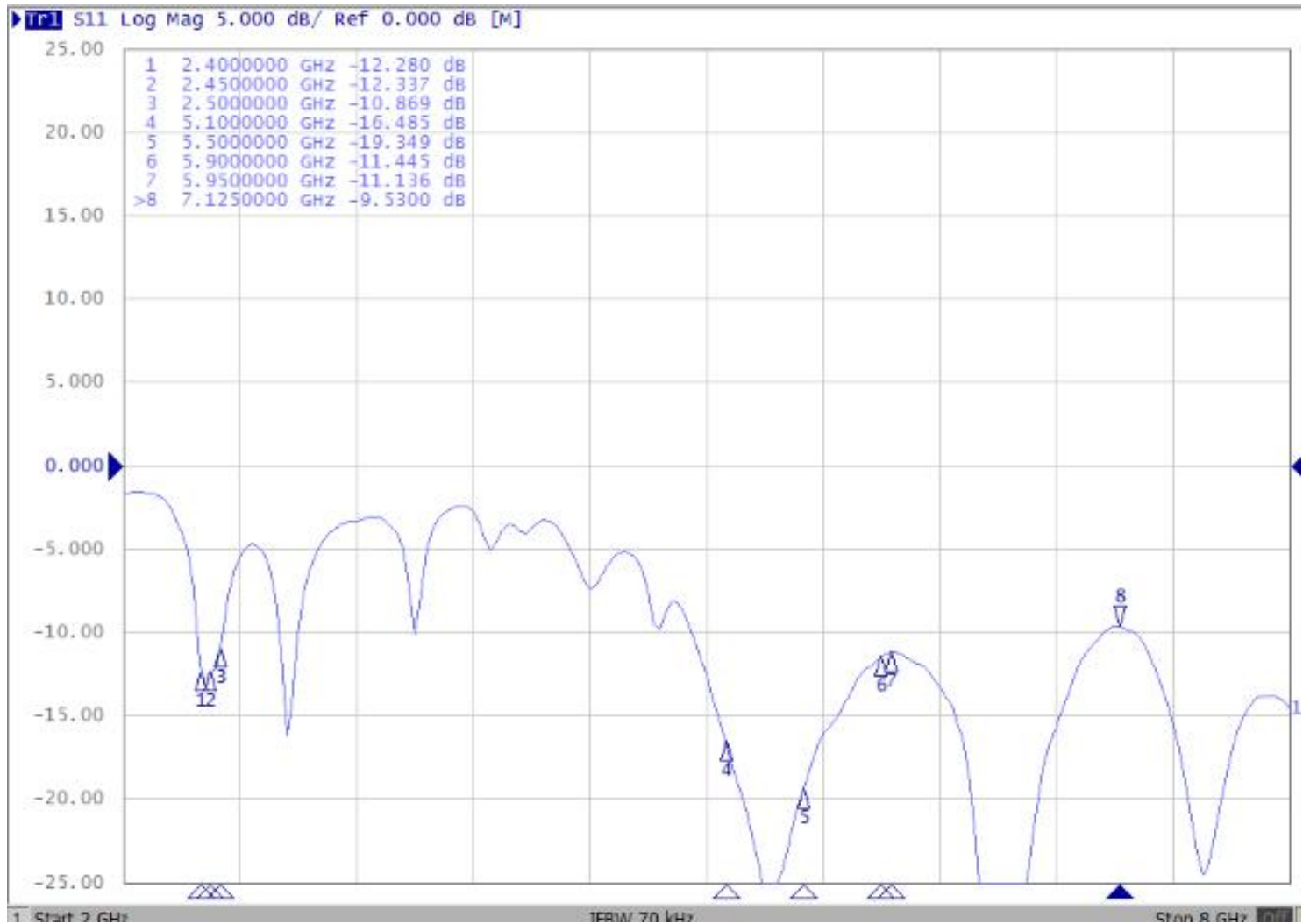
- 1.1 Frequecy range.....2.4G~2.5G&5.1G~5.9G
- 1.2 Impedance.....50Ω Norminal
- 1.3 VSWR≤2
- 1.4 Return Loss≤-10dBm
- 1.5 Radiation.....Omni
- 1.6 peak Gain.....5dBi
- 1.7 Polarization.....Linear
- 1.8 Admitted Power.....1W
- 1.9 Cable.....NONE

2.Physical Properties

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

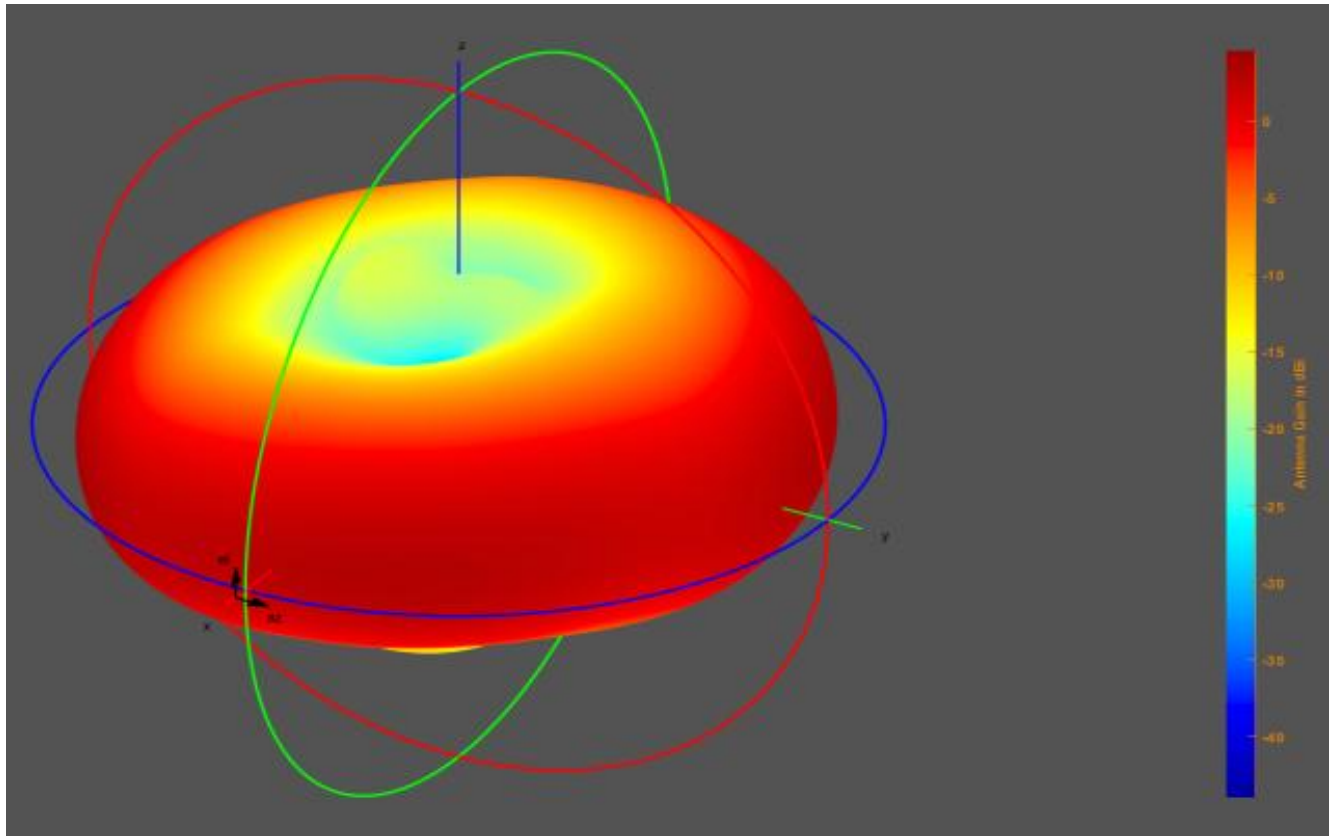
1. Analyzer Measurement

1.1 S11 test results

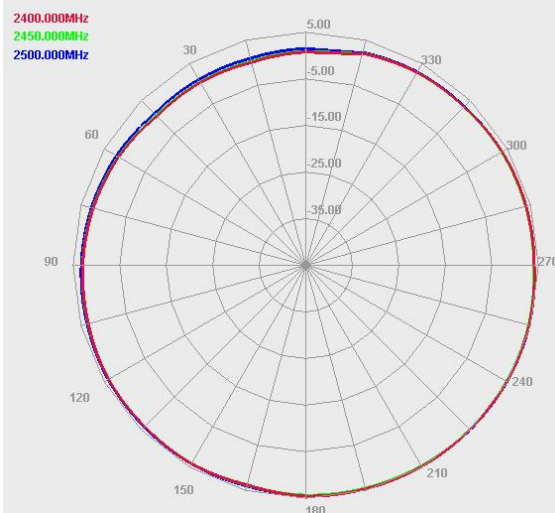


2. 2D&3D

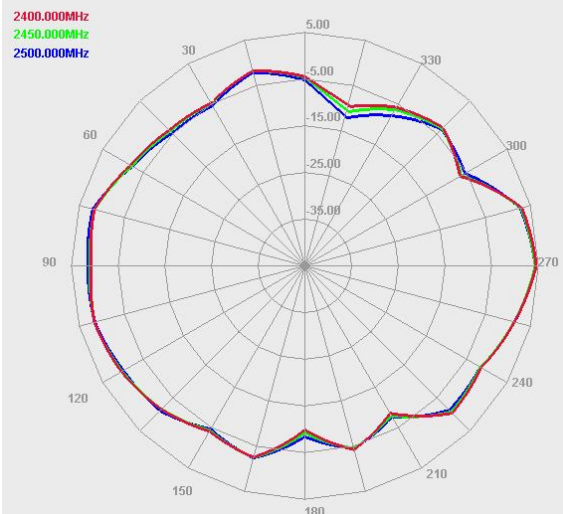
2.1 2.4G



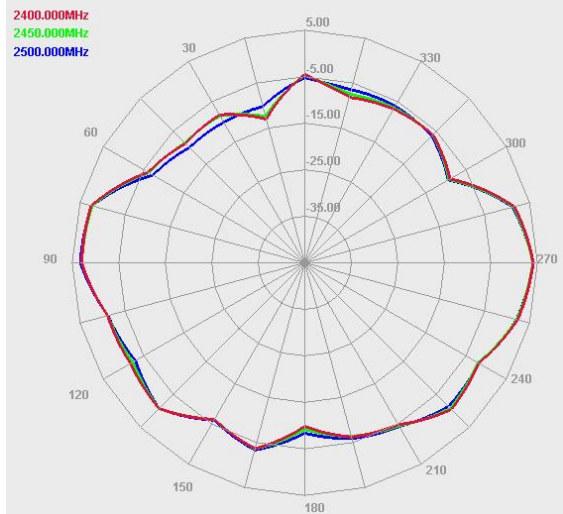
Horizontal



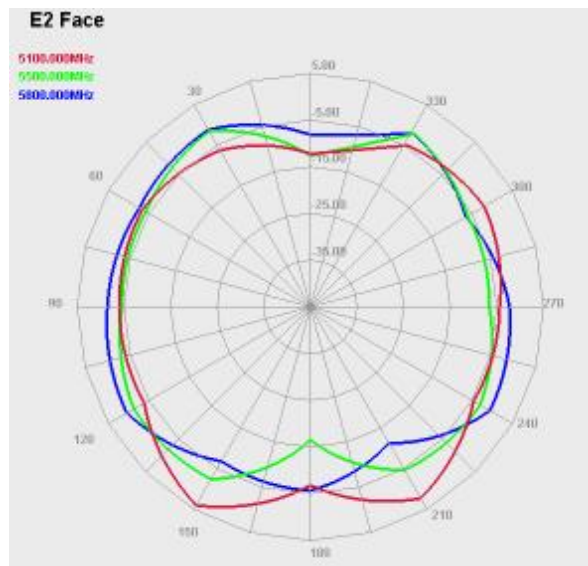
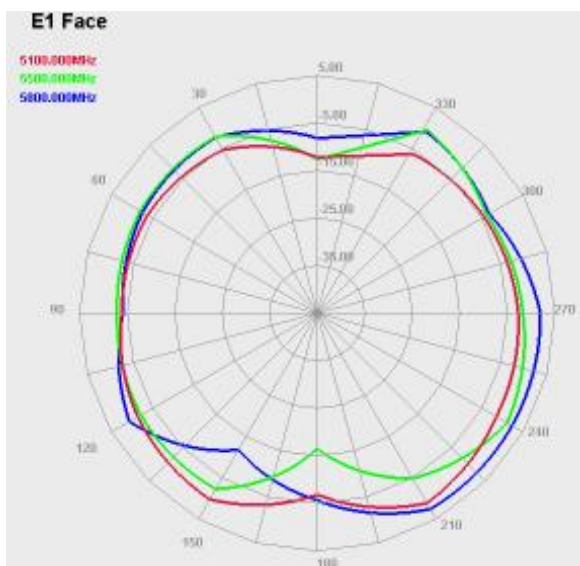
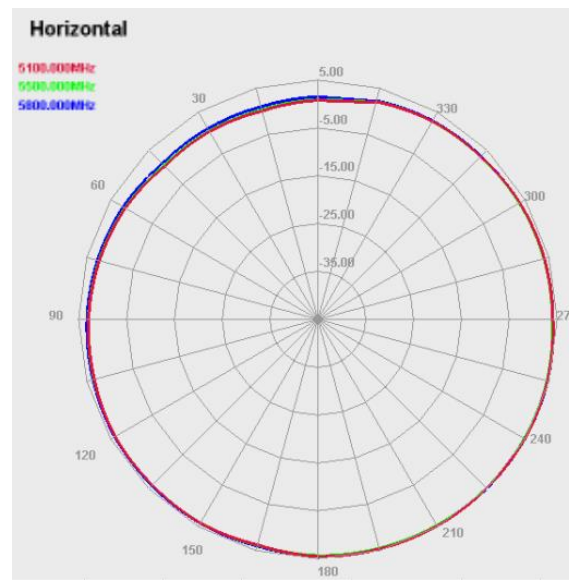
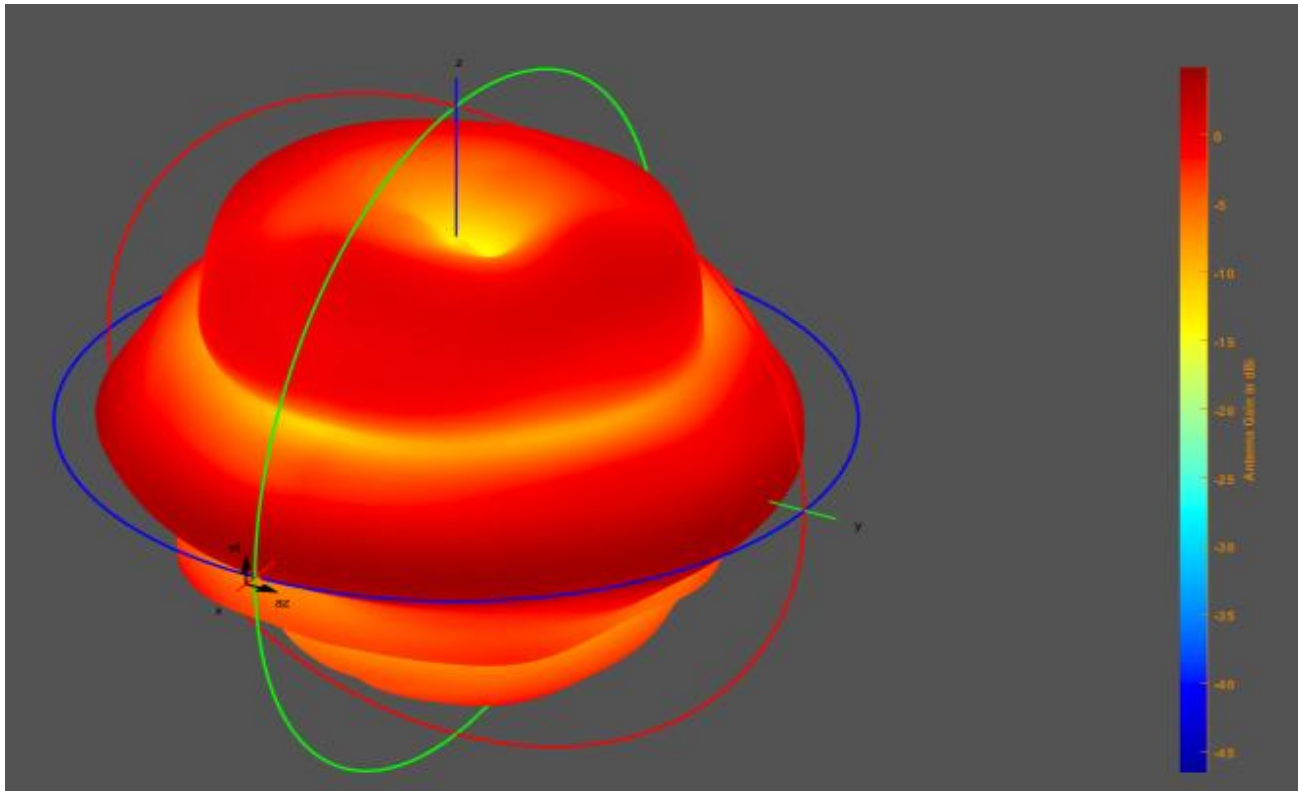
E1 Face



E2 Face



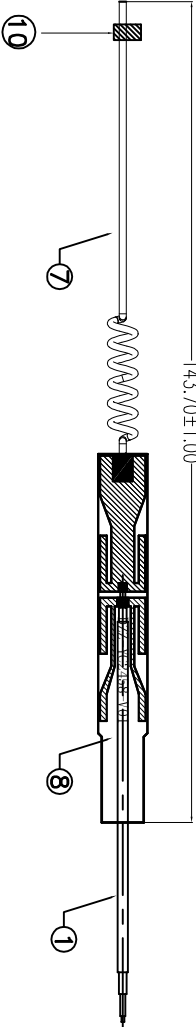
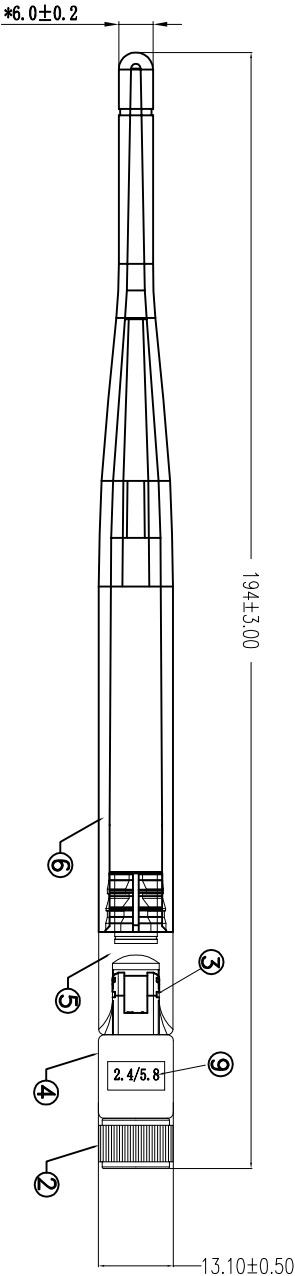
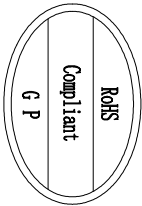
2.2 5G



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

Rev	Description	Date	Remark
A	Initial release	2023.9.11	
B	Screen printing changed to ZC2458-V01	2024.9.23	



10	foam	EVA	black	/	1	
9	tag	PVC transparent	transparent	/	1	
8	PCB	FR4	Green	/	1	
7	Spring	Brass	Yellow	/	1	
6	Sleeve	TPE	Black	/	1	
5	Upper fixing seat	PC+PBT	Black	/	1	
4	Lower fixing seat	PC+PBT	Black	/	1	
3	fixed leg	POM	Black	/	2	
2	SMA base	SMA male needle with 1.78 line	Black	/	1	
1	射频线	RG178 RF line	Brown	/	1	

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

Shenzhen free technology Co., LTD					
SHEN ZHEN Be Comfortable CO., LTD					
No. Name	Material	Color	Treatment	Amount	Remark
Project	Dual frequency	Date	2023.9.19		
PartName	external antenna3	Designed by			
Part No.	NI2-7419-ROA	Checked by	MD	tianjin	
Material	N/A	Approved by	RF	fengnuiping	
dwg No.		Unit	mm	Scale	1:1
Location	N/A	Angle	$\pm 0.5^\circ$	Rev	A

1	2	3	4	5	6	7	8
Rev	Description	Date	Remark				
1	New drawing						

由 Autodesk 教育版产品制作

Product packaging specification

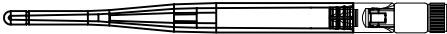
date: 2023.9.11

page: 1 of 1

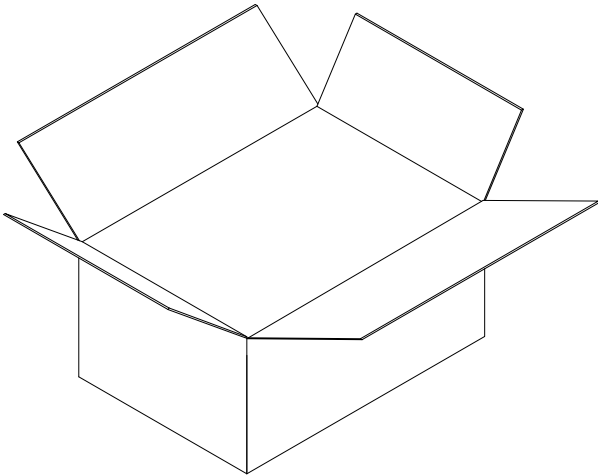
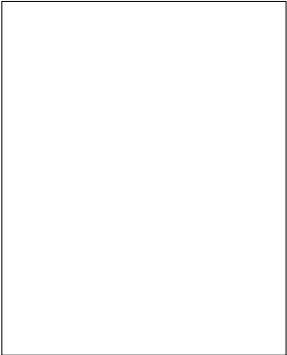
版本: A

Product name: External antenna

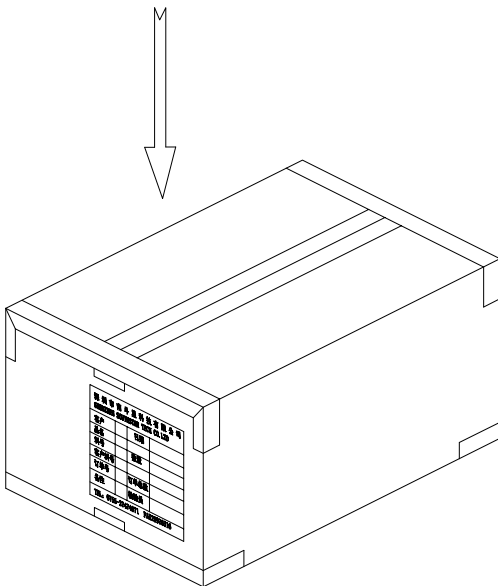
一: Finished antenna



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