

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

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shanghai mengju technology co., LTD

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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

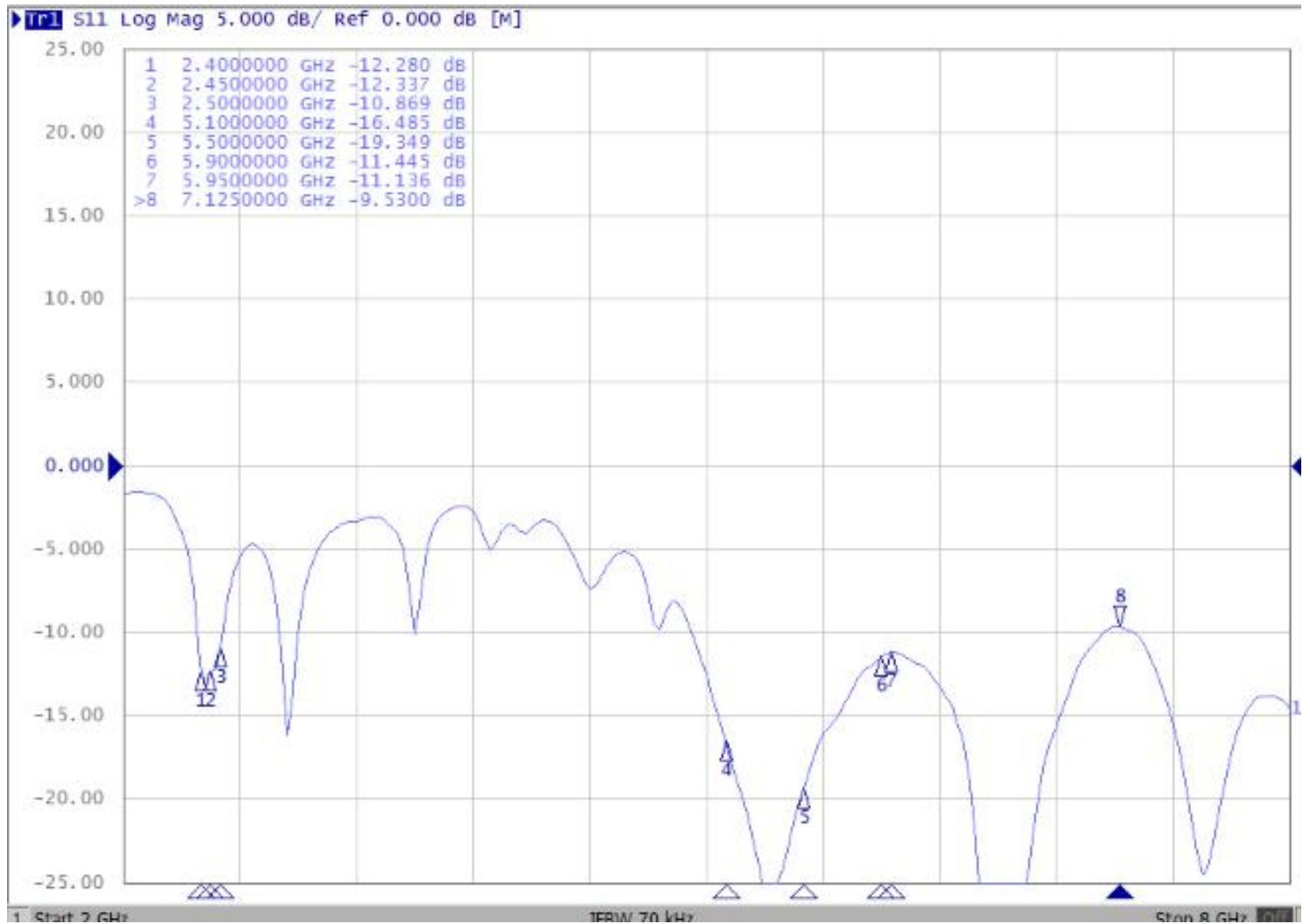
- 1.1 Frequecy range.....2.4G~2.5G&5.1G~5.9G
- 1.2 Impedance.....50Ω Norminal
- 1.3 VSWR≤2
- 1.4 Return Loss≤-10dBm
- 1.5 Radiation.....Omni
- 1.6 peak Gain.....5dBi
- 1.7 Polarization.....Linear
- 1.8 Admitted Power.....1W
- 1.9 Cable.....NONE

2.Physical Properties

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

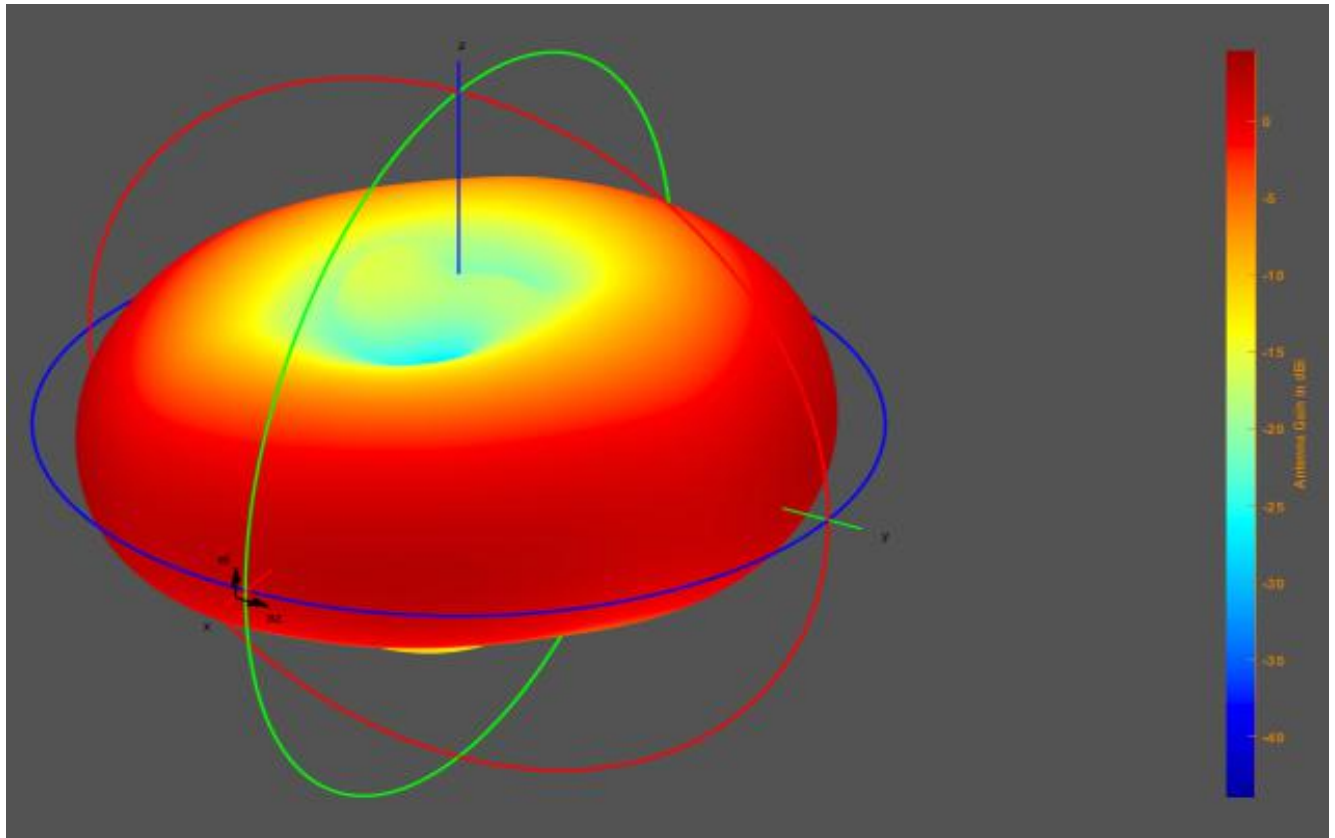
1. Analyzer Measurement

1.1 S11 test results

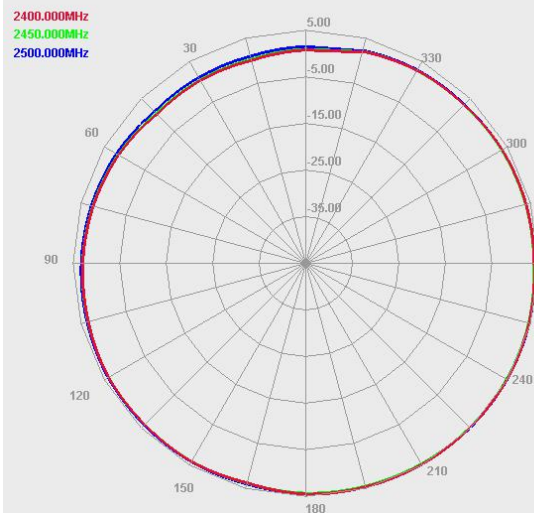


2. 2D&3D

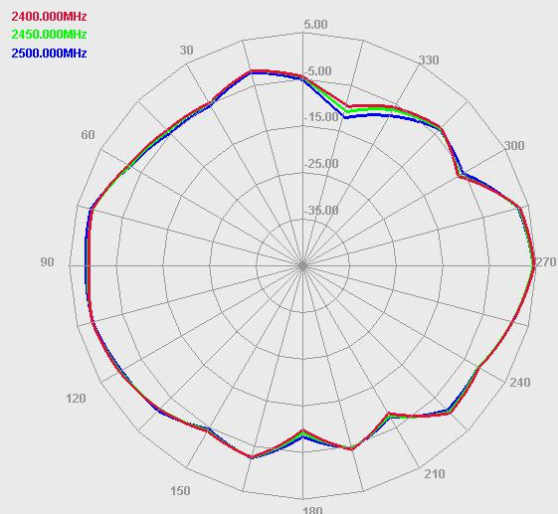
2.1 2.4G



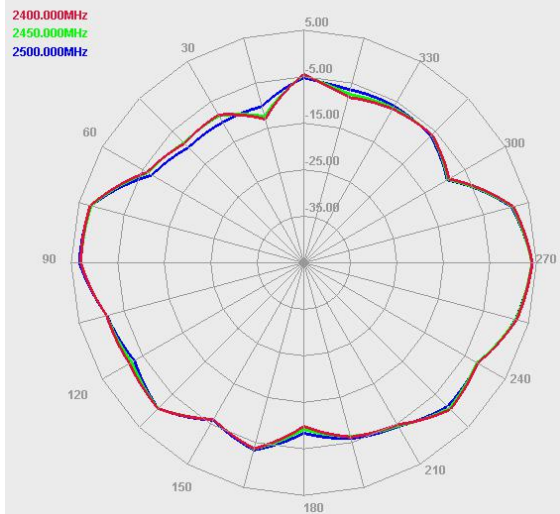
Horizontal



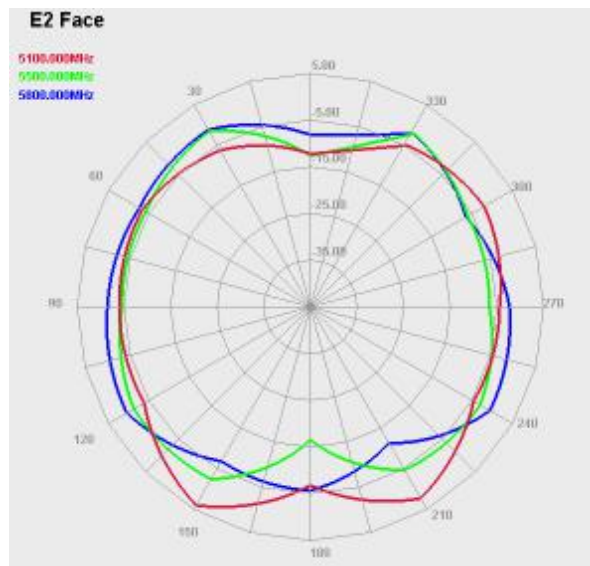
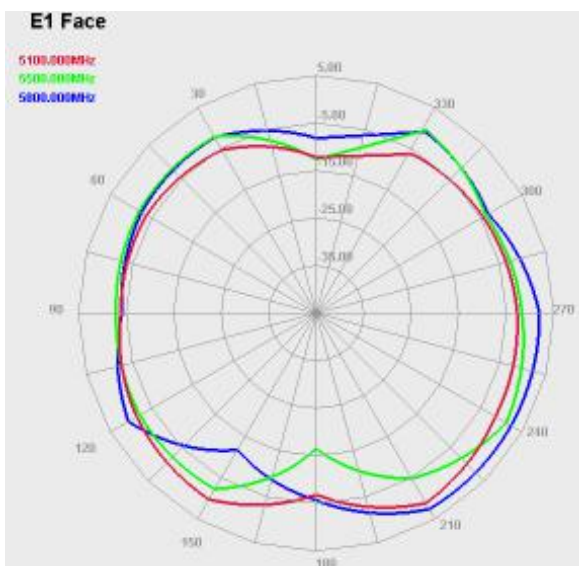
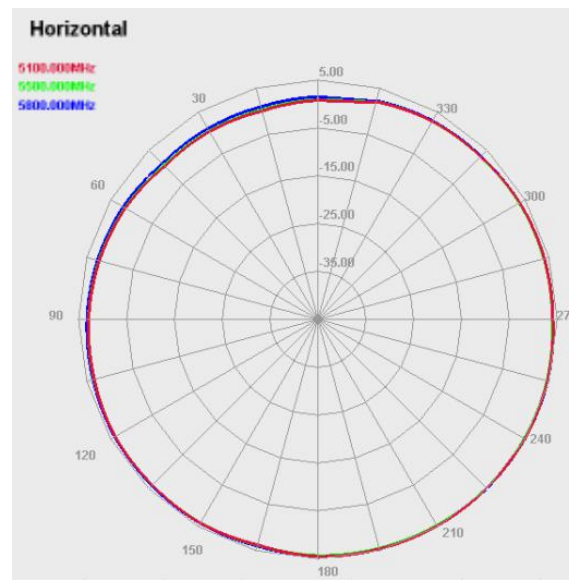
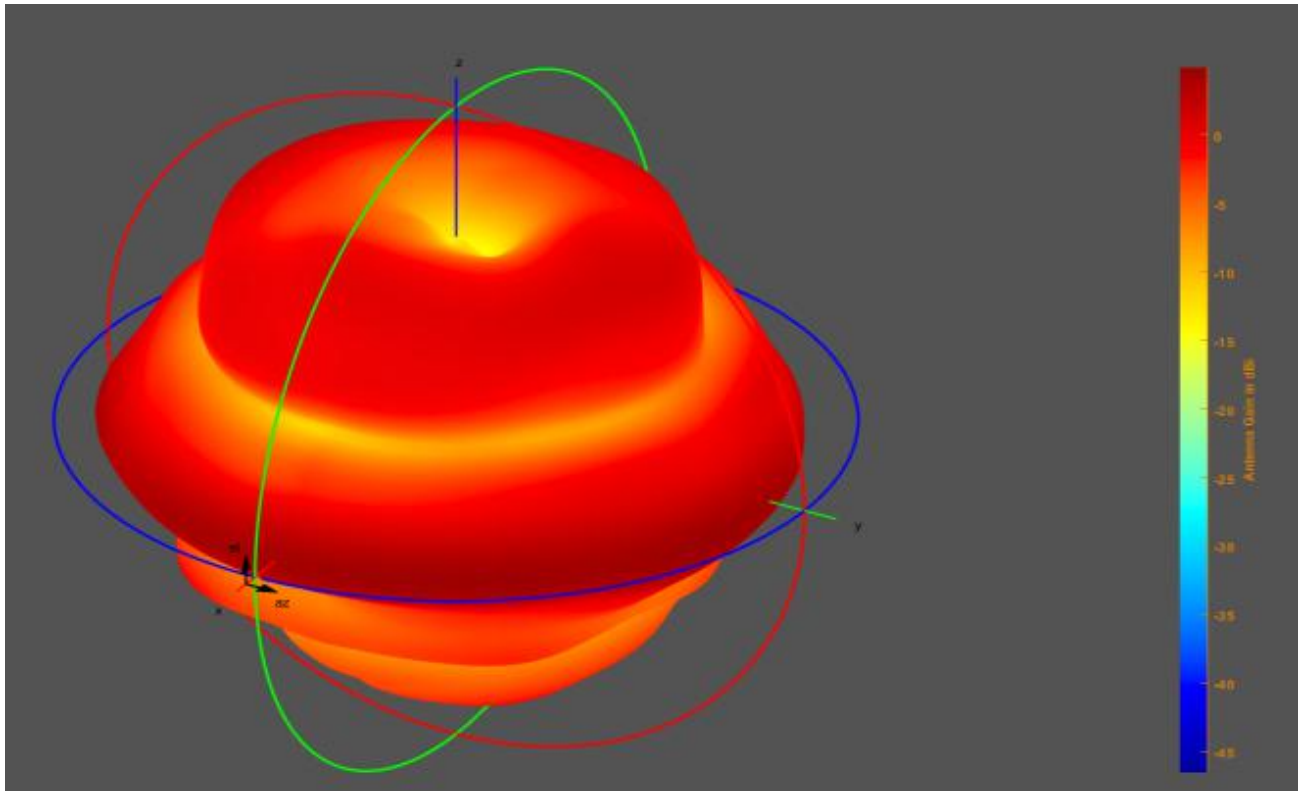
E1 Face



E2 Face

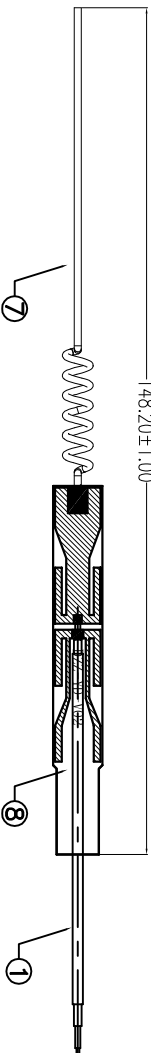
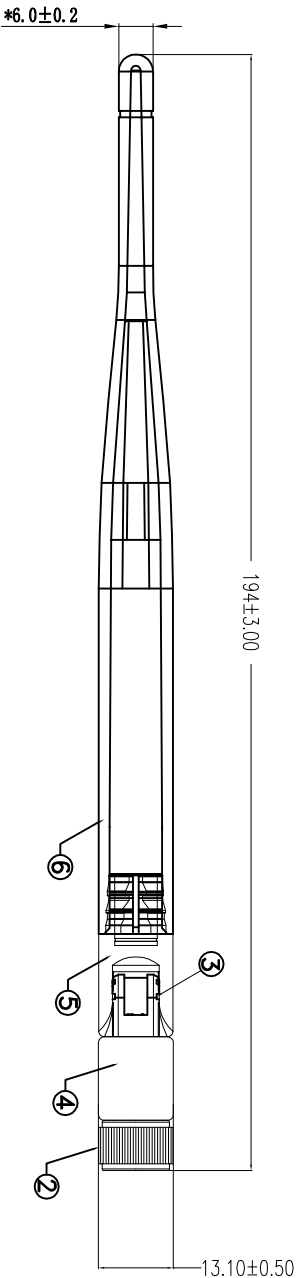
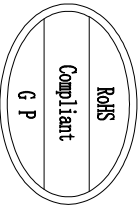


2.2 5G



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



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	POW	Black	2					
2	SMA base	SMA male needle with 1.78 line	Black	1					
1		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									
SHENZHEN Be Comorable Co., LTD									
Project		Dual frequency		Date		2023.9.19			
PartName		external antenna3		Designed by		MD tianjin			
Part No.		NI2-7419-ROA		Checked by		RF fenghuiping			
Material		N/A		Approved by					
dwg No.				Unit		mm	Scale	1:1	Rev
Location		N/A							A

Rev	Description	Date	Remark
1	New drawing		

Product packaging specification

date: 2023. 9. 11

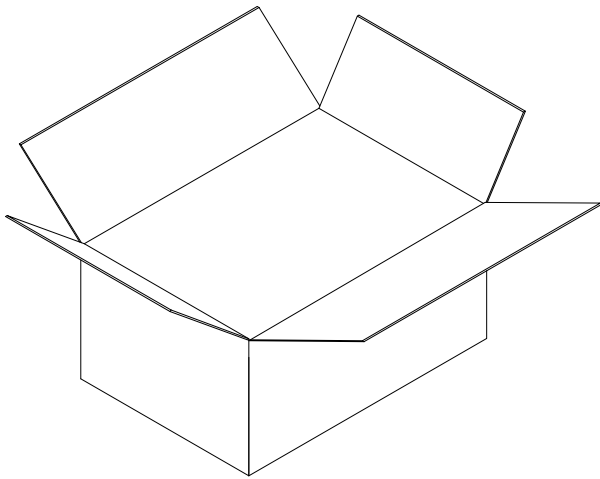
page: 1 of 1

Product name: External antenna

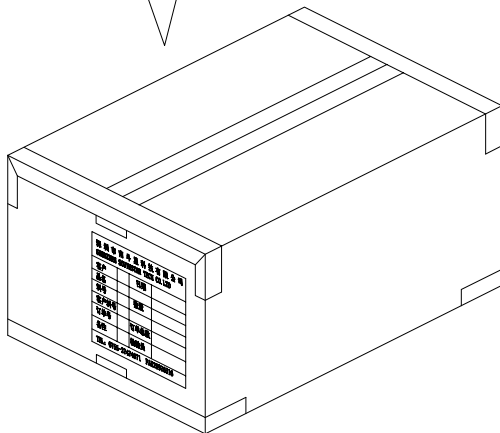
—: Finished antenna



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.