

SPECIFICATION FOR APPROVAL

Customer Name PAX Technology Limited

Customer P/N. _____

Product Description L1620 WIFI 5G

FIBOCOM P/N BAF-006A (ver.RF)

Manufacturer FIBOCOM Wireless Inc.

Approve Date 2025/2/11

Customer Sign and Seal

Change the content	Version	Date
First edition	RA	2025/2/11

Note: 1. After the electronic file or paper file that has been stamped by FIBOCOM and was provided to the customer,, the customer need to sign the paper or electronic file of the approval back to FIBOCOM before place the formal order to FIBOCOM. If there is no formal change or change notice,FIBOCOM acqu iesce that the customer appovel and accept this specification of product .

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Directory

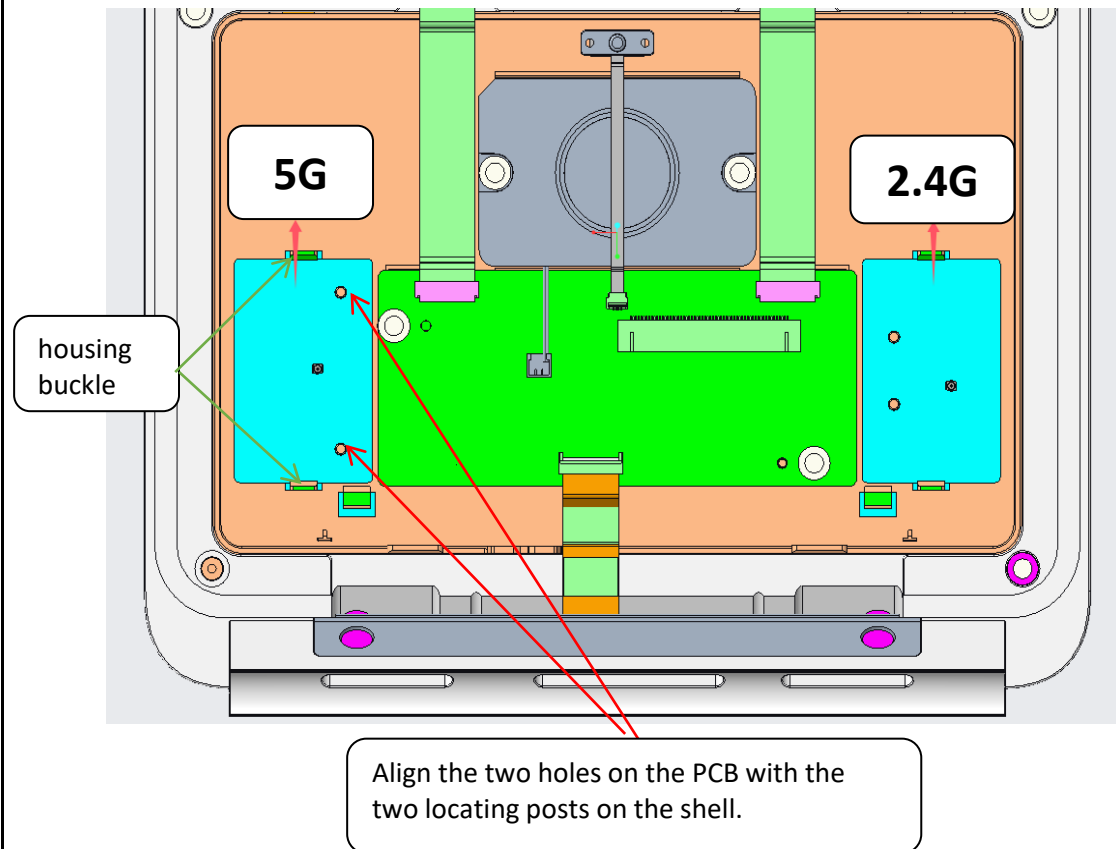
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1. Antenna Specification

1.1: Electrical Specification	
Freq.Range (MHz)	2400-2500; 5150-7200
Impedance Ω	50
VSWR	<3
Directional	Omni directional
Polarization	Linear
Gain (dBi)	2400-2500: 3.63
	5150-7200: 6.28
1.2: Mechanical Specification	
Material	PCB
RF Cable Type	N/A
Connector Type	N/A
1.3: Environmental Specification	
Operation temp	-40℃ ~ +85℃
Storage temperature	-40℃ ~ +85℃

2.Installation Instructions

2.2: Installation Instructions



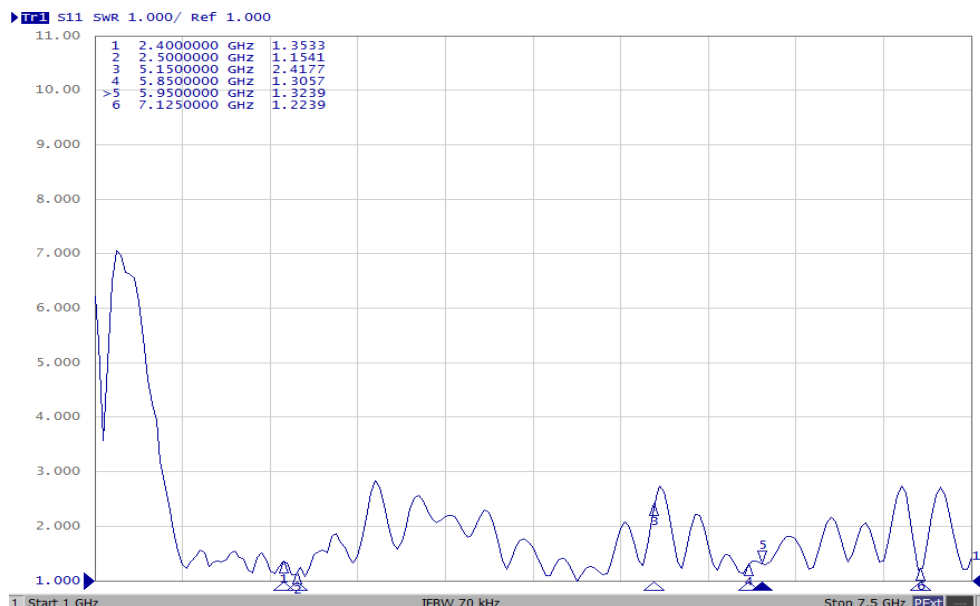
As shown in the figure, first install the PCB on the shell. During assembly, align the two holes of the PCB with the two locating posts of the shell. After alignment, press down the PCB to make it snap into the buckle positions on both sides of the shell.

3.Test Report

3.1: Active test data

Test Data			
Band	Channel	TRP	TIS
		6M	54M
11G	Low	14.02	-72.93
	Mid	14.43	-72.31
	High	13.98	-72.78
		6M	54M
11A	Low	14.11	-72.93
	Mid	14.62	-72.75
	High	14.28	-72.81

3.2: Return loss /Smith chart/VSWR



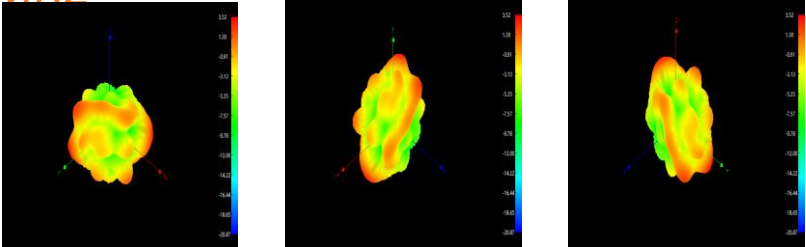
3.3: Antenna efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	34.28	3.52	5950	32.55	3.32
2410	33.42	3.51	6000	30.9	3.95
2420	32.58	3.46	6050	32.28	4.27
2430	33.27	3.38	6100	36.39	5.86
2440	35.32	3.63	6150	28.71	4.71
2450	36.31	3.47	6200	31.48	4.15
2460	34.67	2.91	6250	33.65	5.58
2470	34.12	2.79	6300	33.11	5.72
2480	32.14	2.62	6350	35.48	6.28
2490	31.24	2.16	6400	32.23	4.08
2500	30.97	2.04	6450	28.01	3.51
5150	31.38	2.17	6500	30.29	3.49
5200	31.92	2.93	6550	31.7	4.7
5250	31.44	3.33	6600	31.48	3.9
5300	34.67	4.41	6650	29.49	2.8
5350	33.96	4.41	6700	28.01	1.95
5400	33.5	4.59	6750	31	2.95
5450	29.65	4.33	6800	33.5	4.06
5500	30.62	3.78	6850	34.38	2.91
5550	31.05	3.09	6900	32.93	1.71
5600	31.55	3.19	6950	33.38	2.37
5650	30.48	3.45	7000	32.39	2.39
5700	31.48	2.91	7050	31	2.52
5750	33.19	3.56	7100	32.81	3.25
5800	32.14	3.32	7150	32.71	2.55
5850	34.36	3.02	7200	30.42	2.36

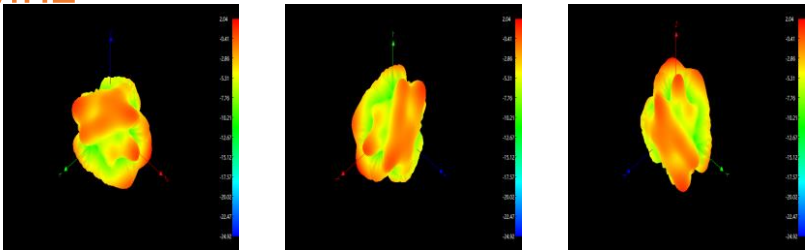
3.4: Directional diagram



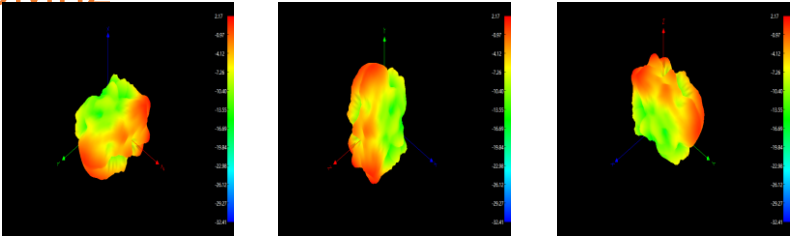
2400Mhz



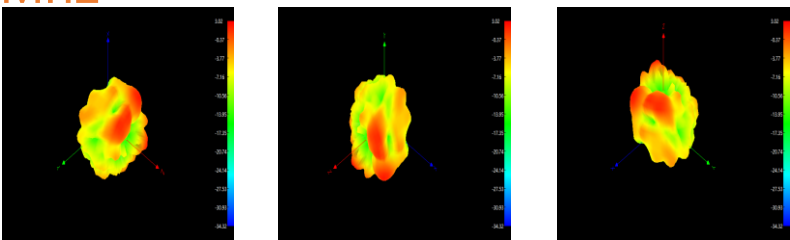
2500Mhz



5150Mhz

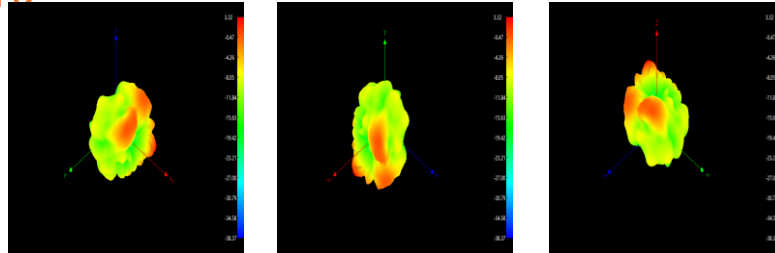


5850Mhz

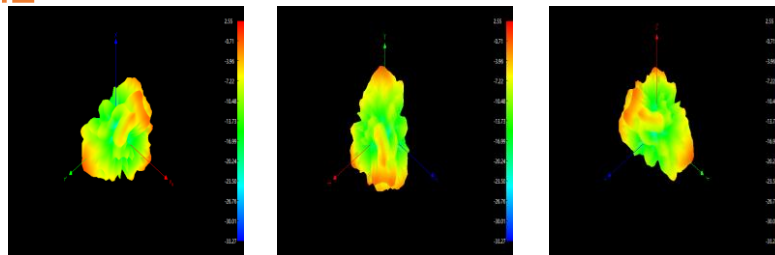




5950Mhz



7200Mhz



3.5: Environmental treatment

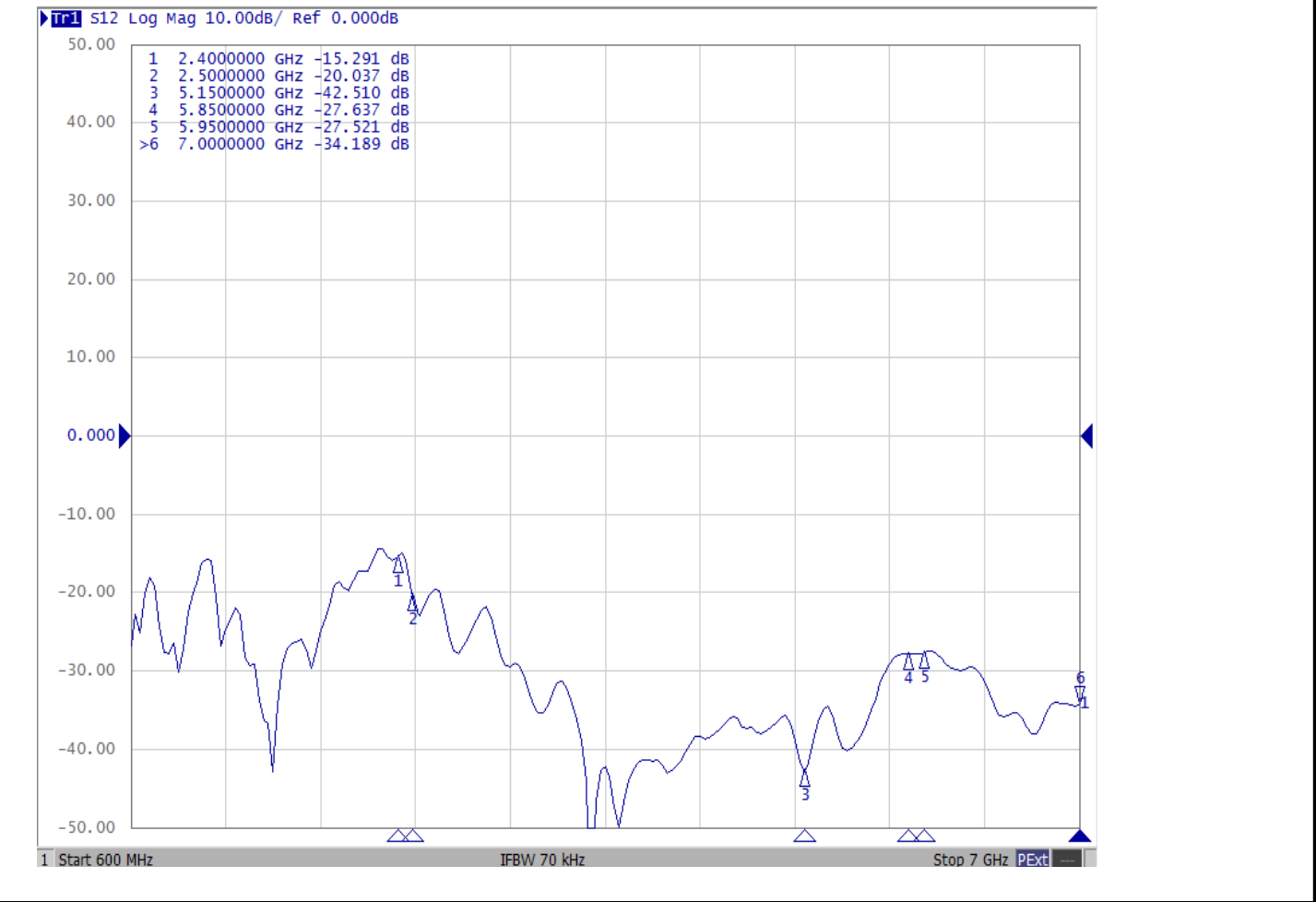
Attach conductive foam - for grounding.

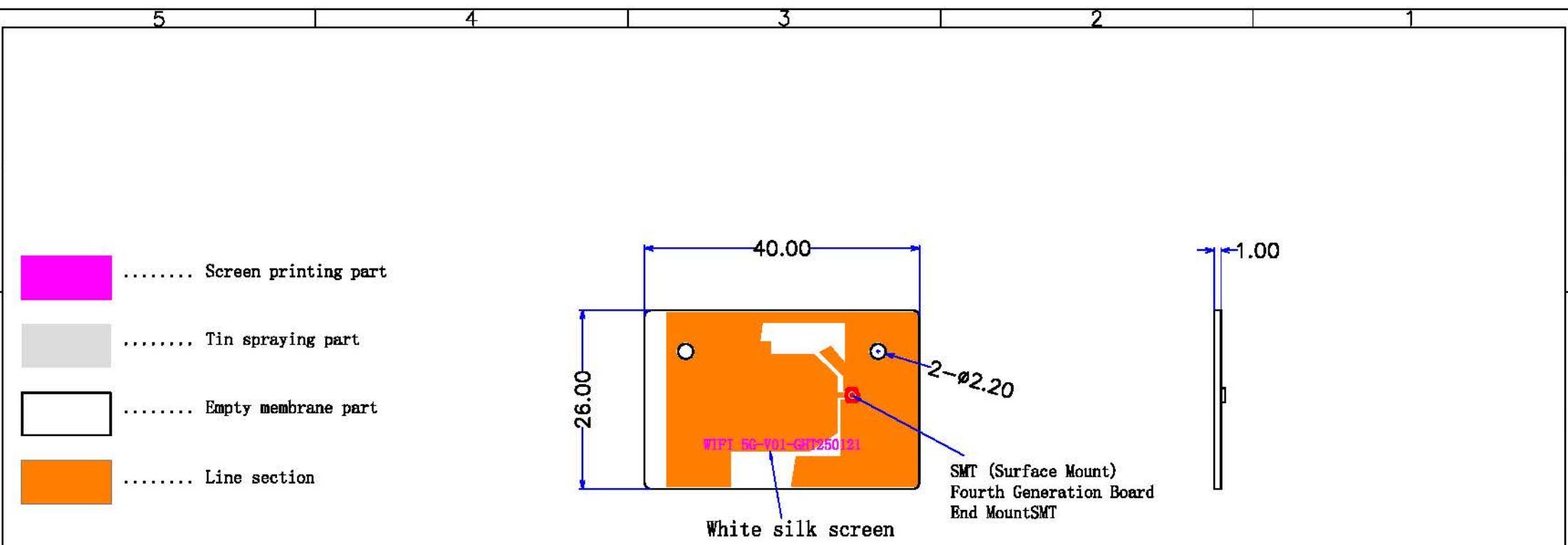
3.6: Single antenna test data

Combined Path Test Data			
Band	Channel	TRP	TIS
		6M	54M
11G	Low	14.02	-72.93
	Mid	14.43	-72.31
	High	13.98	-72.78
		6M	54M
11A	Low	14.11	-72.93
	Mid	14.62	-72.75
	High	14.28	-72.81

Single 5G Port Test Data			
Band	Channel	TRP	TIS
		6M	54M
11G	Low	11.82	-70.32
	Mid	12	-69.39
	High	11.73	-70.08
		6M	54M
11A	Low	12.91	-71.11
	Mid	13.38	-71.05
	High	12.28	-71.53

3.7: Isolation





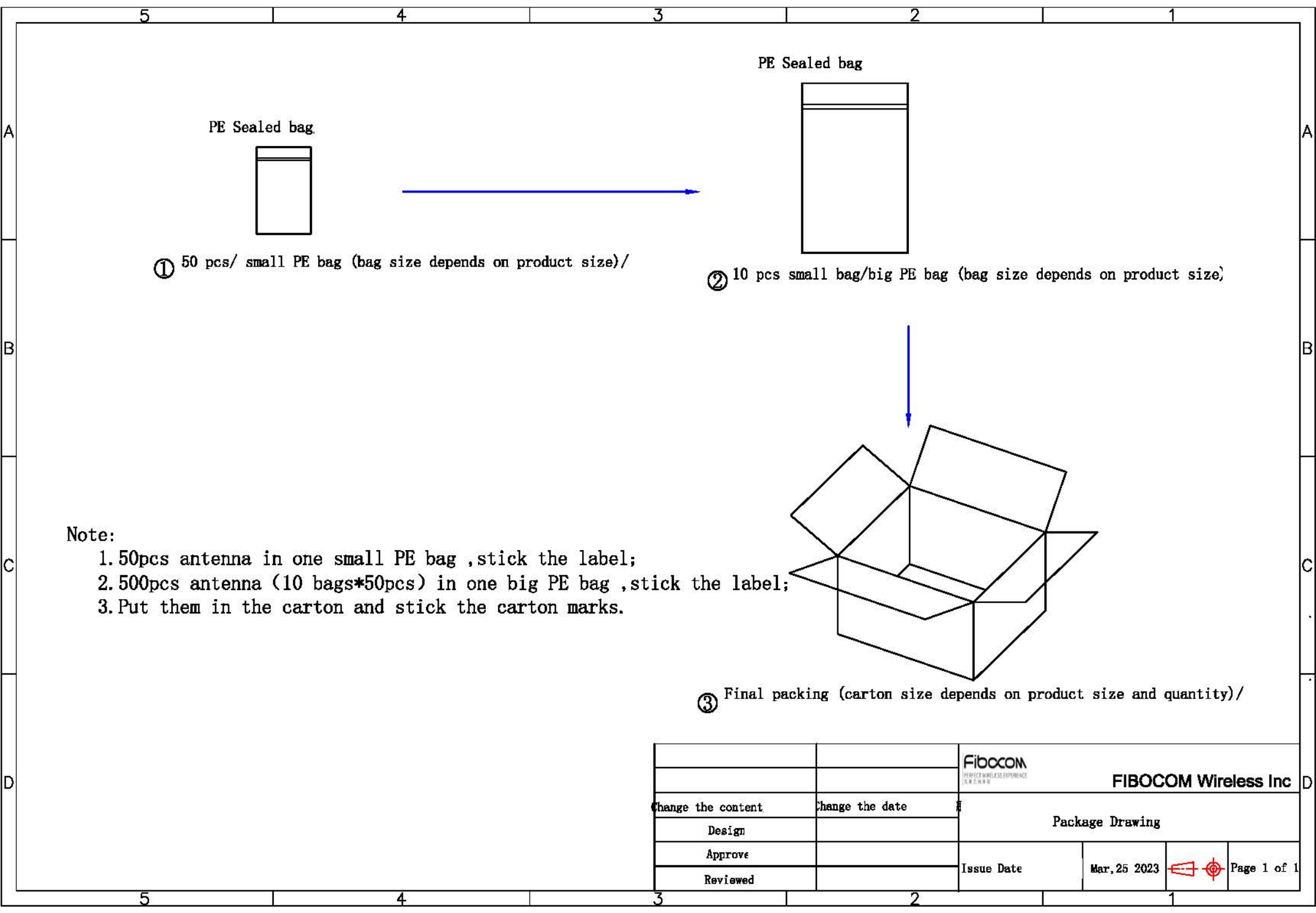
be careful:

1. Pack every 50 antenna components in a small package, pack every 10 small packages in a large package, and then pack them into boxes

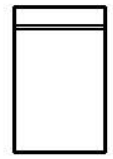
2. If there is an addition of "." or ".." in the silk screen content, it is used by our company to distinguish suppliers

Logo, but the product performance, material, and processing technology are completely the same.

							Fibocom PERFECT WIRELESS EXPERIENCE 2016-2019		FIBOCOM Wireless Inc		
②	BAF-006A-05A	PCB	1.0mmFR4,Single panel, black oil printed on the front, tin sprayed on the feeding point	1	Modify content	Modify date		Product NO.	BAF-006A	Material is qualitative	PCB
①	BGS-917B	Fourth generation board end	Fourth generation board end	1	limits of tolerance; Others less than±0.2	Designer		Client NO.	\	Version of this	RA
						Auditing		Part name	Antenna	Item no.	BAF-006
						Approve		Publish date	Feb 11,2025		page 1/1
NO.	PART NO.	NAME	DESCRIPTION	QT'Y							
5			4		3		2		1		

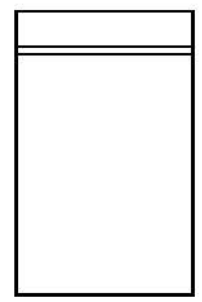


PE Sealed bag

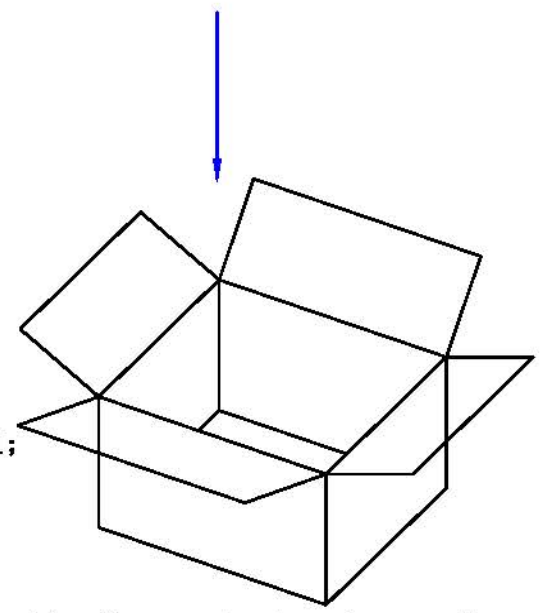


① 50 pcs/ small PE bag (bag size depends on product size)/

PE Sealed bag



② 10 pcs small bag/big PE bag (bag size depends on product size)



③ Final packing (carton size depends on product size and quantity)/

Note:

- 1. 50pcs antenna in one small PE bag ,stick the label;
- 2. 500pcs antenna (10 bags*50pcs) in one big PE bag ,stick the label;
- 3. Put them in the carton and stick the carton marks.

		Fibocom PERFECT WIRELESS EXPERIENCE FIBOCOM Wireless Inc			
Change the content	Change the date	Package Drawing			
Design					
Approve					
Reviewed		Issue Date	Mar,25 2023		Page 1 of 1

6.ROHS Report

q		L1620 WIFI 5G	FIBOCOM P/N		BAF-006A			Declaration Date		2025/2/11	
No.	Part name	Homogeneous Material Name	The homogeneous material contains the value of RoHS restricted substance （ppm）						Certification number	Test date	
			Cd	Pb	Hg	Cr+6	PBB	PBDE			
1	PCB	FR4	ND	12	ND	ND	ND	ND	SHAEC24022792308	2024/10/9	
2	Terminals	Gold plating	ND	ND	ND	ND	ND	ND	A2240410234101001E	2024/7/11	
3		PBT	ND	2.55	ND	ND	ND	ND	A2240126395101003E	2024/3/13	
4		Nickel plating	ND	ND	ND	ND	ND	ND	A2240410234101002E	2024/7/11	

Notes:

Material analysis expansion table is similar to our company's machine type BOM, which describes the composition of each material provided by the supplier, and then conducts RoHS control on each component (or the supplier shall conduct RoHS compliance management on his supplier, and provide tripartite inspection certificate).

A complete material analysis expansion table that includes:

1. Material expansion table: component composition decomposition
2. Third-party verification report of each component