

SPECIFICATION FOR APPROVAL

Customer Name PAX Technology Limited

Customer P/N. _____

Product Description L1620 WIFI 2.4G

FIBOCOM P/N BAF-006B (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 .

2. The relevant intellectual property rights of this product are owned by FIBOCOM Without the permission of our FIBOCOM please do not apply for patent rights for this product in other names, and please do not disclose this product and related information to others or provide to third-party for viewing and use.

Directory

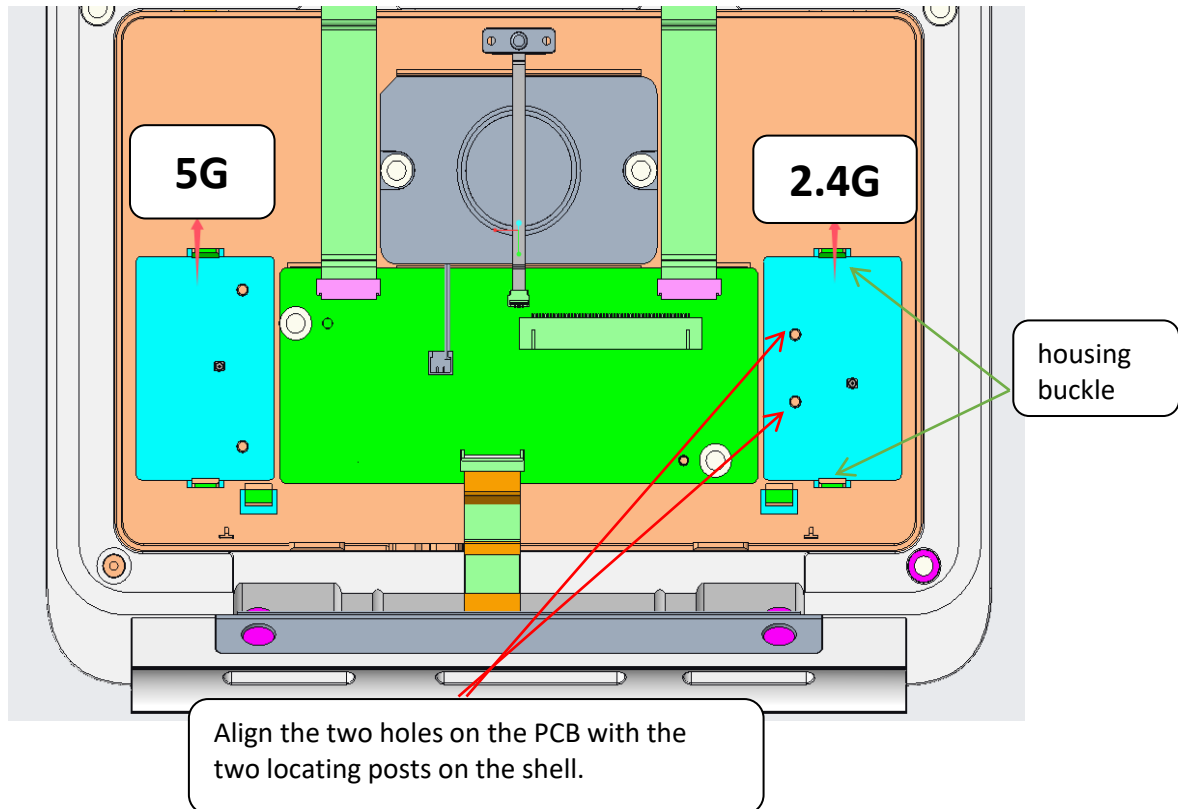
Cover	1
Directory	2
Antenna Specification	3
Installation Instructions	4
Test Report	5
Finished Product Drawing	8
Package Drawing	9
ROHS Report	10

1. Antenna Specification

1.1: Electrical Specification	
Freq.RangeMHz)	2400-2500; 5150-7200
Impedance (Ω)	50
VSWR	< 2
Directional	Omni directional
Polarization	Linear
Gain (dBi)	2400-2500: 3.08
	5150-7200: 6.65
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



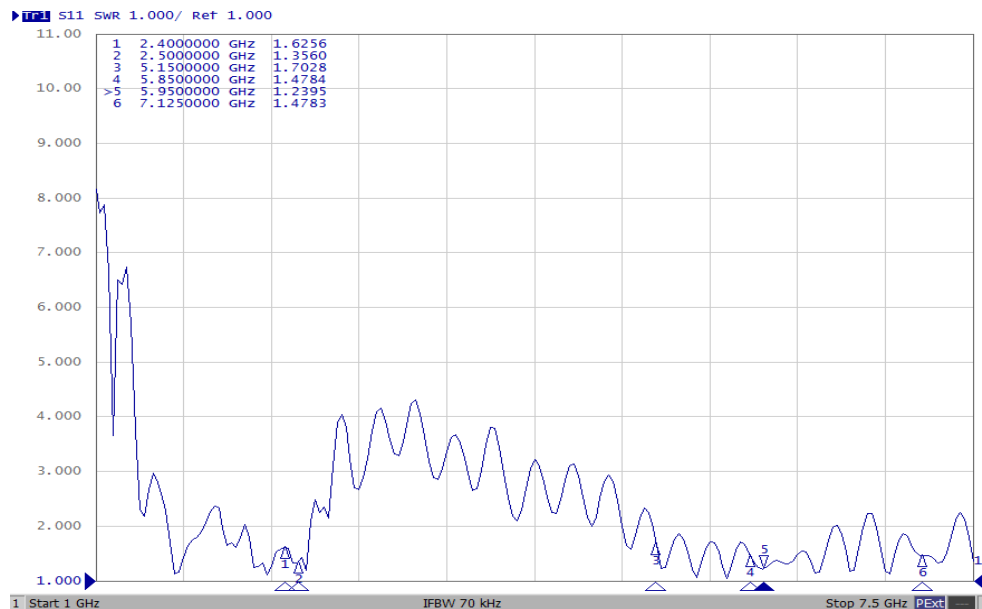
As shown in the figure, first install the PCB on the shell. During assembly, align the two holes of the PCB with the two locating posts of the shell. After alignment, press down the PCB to make it snap into the buckle positions on both sides of the shell.

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



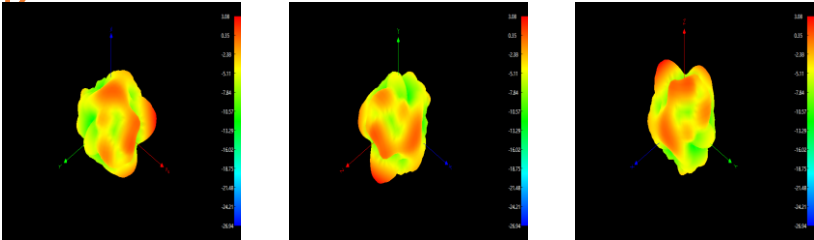
3.3: Antenna efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	31.18	3.08	5950	29.72	3.22
2410	31.49	2.58	6000	31.26	3.66
2420	30.88	2.13	6050	34.91	4.57
2430	30.23	1.86	6100	40.93	5.65
2440	33.58	1.67	6150	35.32	5.46
2450	34.62	1.95	6200	34.75	5.56
2460	34.26	1.93	6250	37.15	6.29
2470	34.12	1.84	6300	36.31	6.44
2480	32.51	1.7	6350	40.36	6.65
2490	30.67	1.53	6400	37.24	5.83
2500	31.64	1.98	6450	30.76	5.14
5150	41.11	3.49	6500	30.62	5.08
5200	39.36	3.83	6550	37.67	6.3
5250	38.99	4.45	6600	36.81	5.82
5300	38.37	4.55	6650	31.79	4.8
5350	38.82	4.81	6700	30.55	3.64
5400	42.56	5.03	6750	31.04	3.49
5450	37.24	4.29	6800	33.88	4.39
5500	41.4	4.37	6850	33.65	3.26
5550	37.93	3.6	6900	32.73	2.96
5600	31.92	2.87	6950	33.42	2.82
5650	33.88	2.89	7000	30.69	2.32
5700	34.99	2.65	7050	31.99	2.49
5750	34.83	2.66	7100	32.66	2.83
5800	33.19	2.75	7150	33.57	2.77
5850	33.96	2.99	7200	34.12	2.97

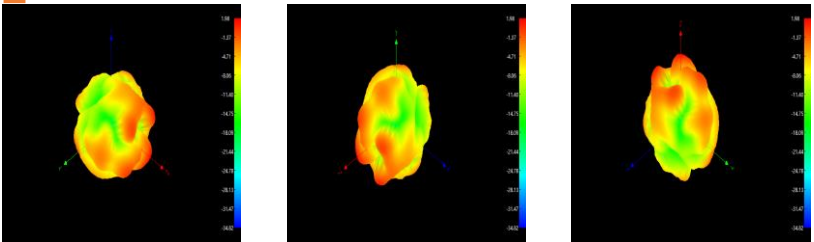
3.4: Directional diagram



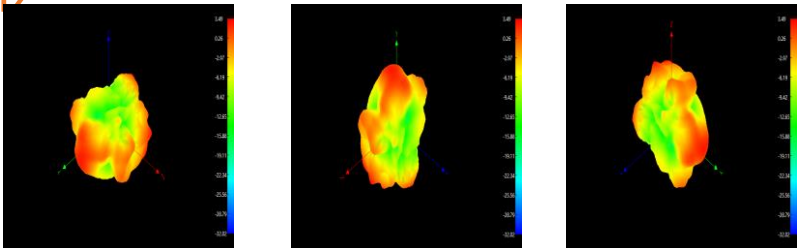
2400Mhz



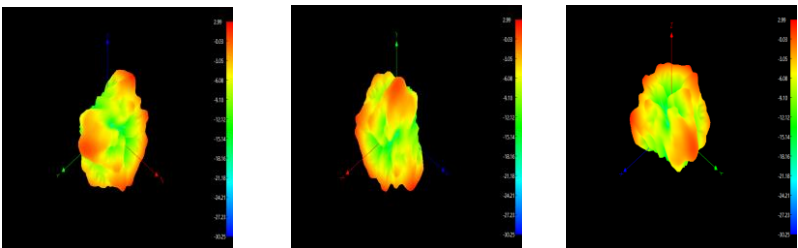
2500Mhz



5150Mhz

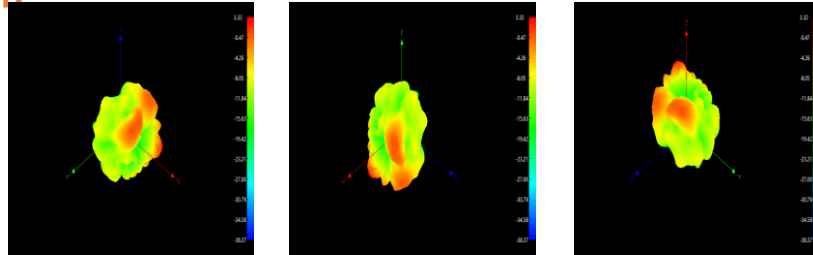


5850Mhz

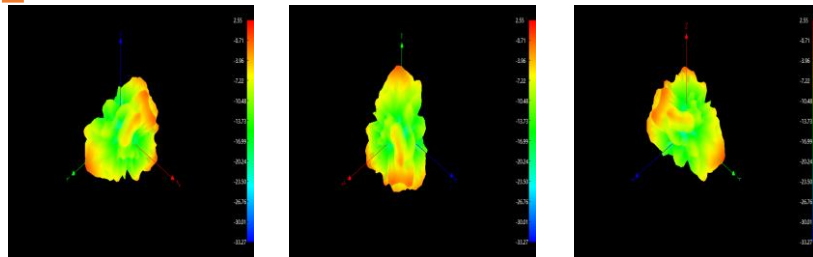




5950Mhz



7200Mhz



3.5: Environmental treatment

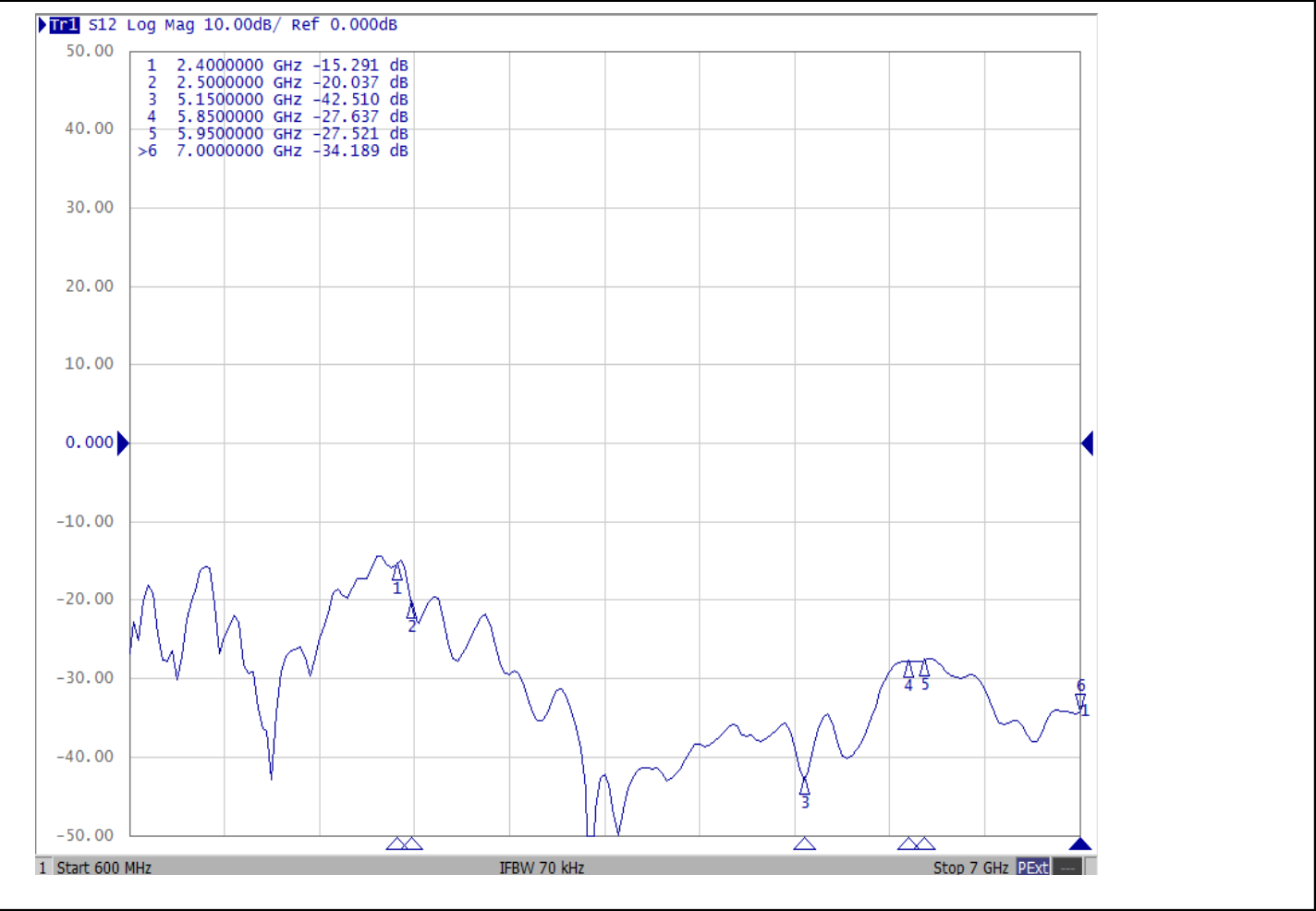
Attach conductive foam - for grounding.

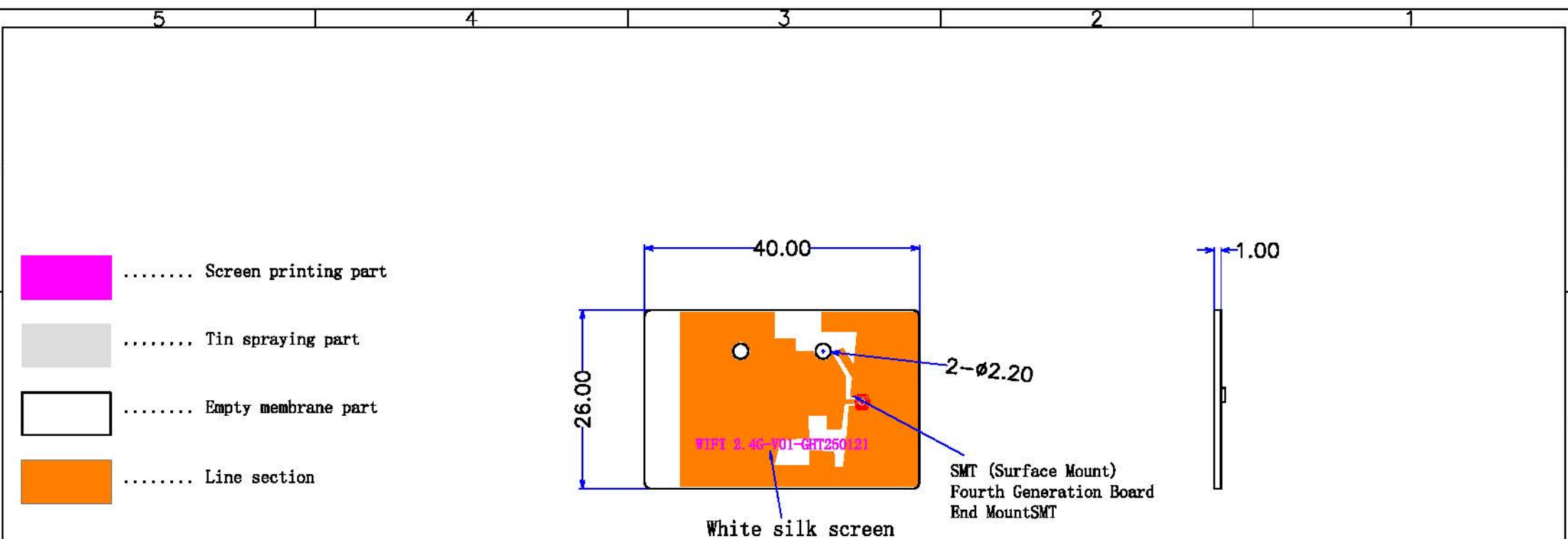
3.6: Single antenna test data

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 2.4G Port Test Data			
Band	Channel	TRP	TIS
		6M	54M
11G	Low	12.52	-70.89
	Mid	12.63	-70.67
	High	12.19	-69.77
		6M	54M
11A	Low	12.33	-70.85
	Mid	12.47	-71.17
	High	11.98	-71.43

3.7: Isolation





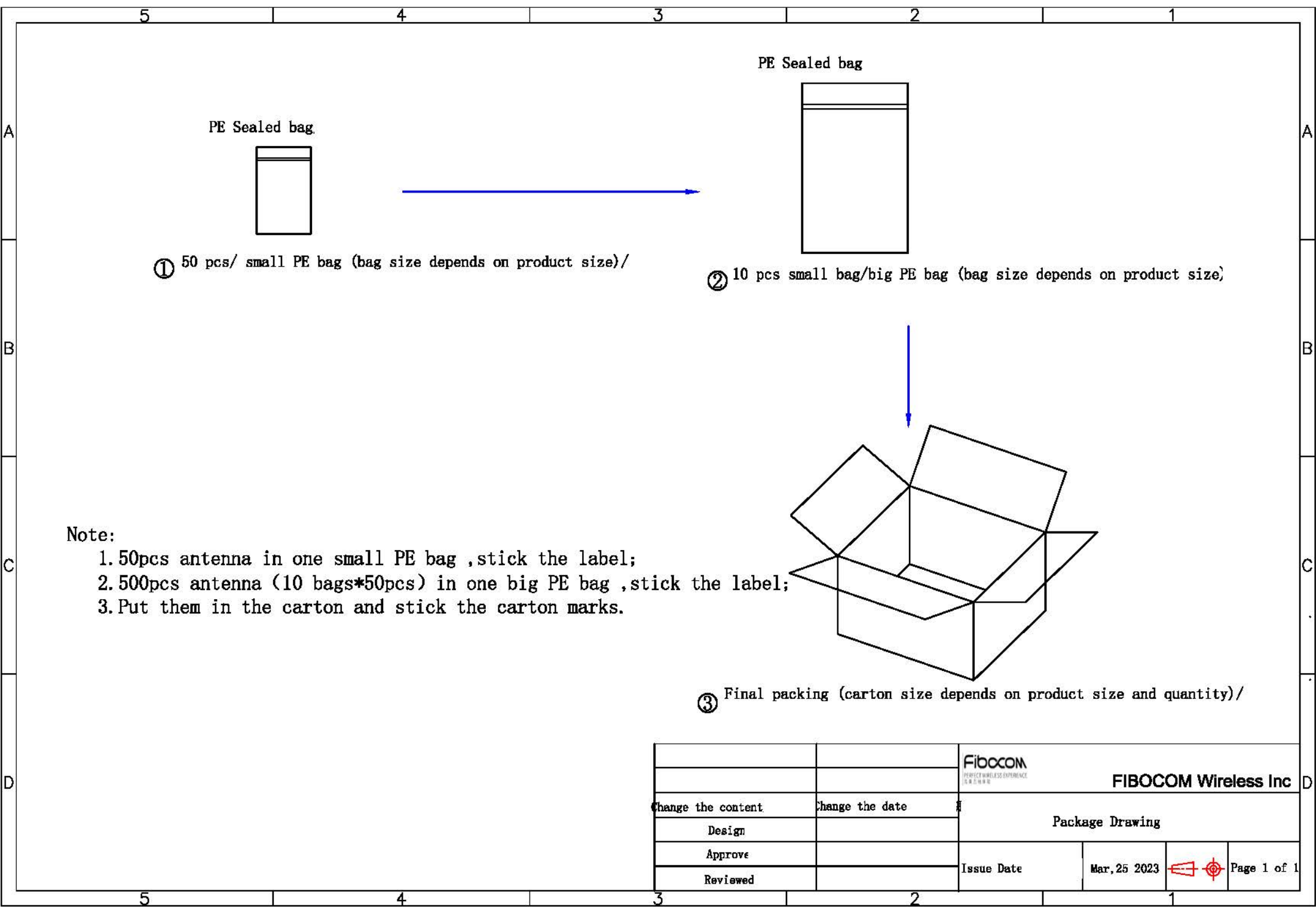
be careful:

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		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-006B	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)

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.

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

		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

Product Description		L1620 WIFI 2.4G	FIBOCOM P/N		BAF-006B			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	FIBOCOM Wireless Inc.	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