FIBOCOM Wireless Inc.

PERFECT WIRELESS EXPERIENCE
完美无线体验

SPECIFICATION FOR APPROVAL

Customer Name ：	**Beijing InHand Networks Technology Co., Ltd.**
Customer Product Model NO. :	**AANT060026**
Product Description	**WiFi Fiberglass Antenna/BGS-065C(RB version)**
MPN:	**210300000031**
Manufacturer	**FIBOCOM Wireless Inc.**
Approve Date	**16-Mar-23**

Customer Sign and Seal

Application：

WiFi Fiberglass Antenna solution

Electrical specifications：

Frequency	2400-2500MHz	Antenna material	Fiberglass
Input Impedance	50Ω	Connector	RP-TNC-J
SWR	See below standing wave pattern	Gain	See the test data

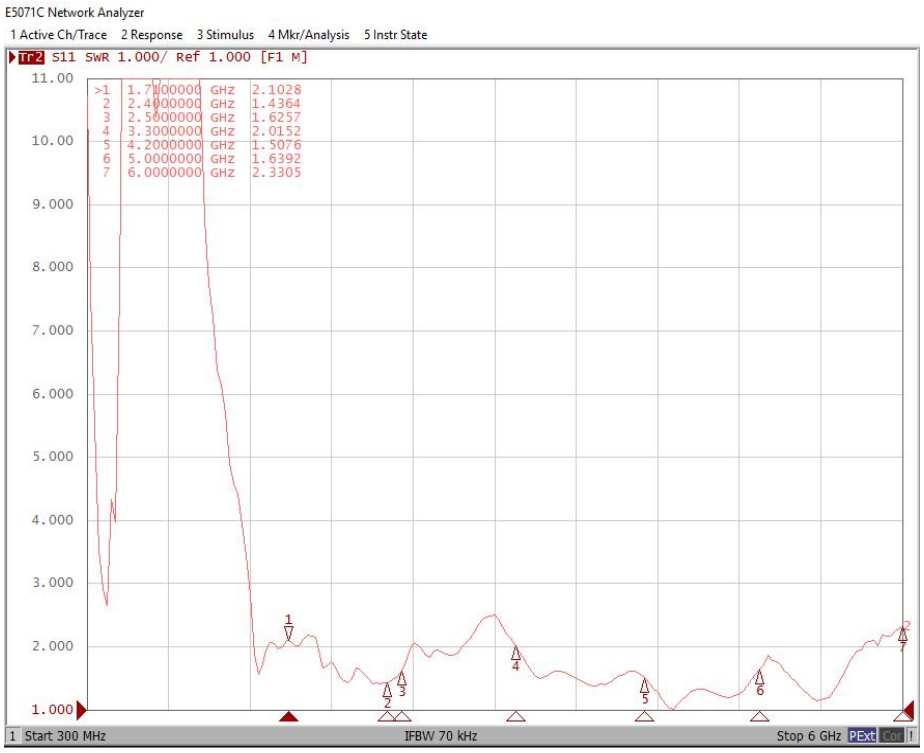
Test conditions and instruments

Test instruments	Test Method	Test result
48 Probes Chamber Aglient E5071C network analyzer	1.Assemble the antenna on the device 2. Put the test fixture with the antenna in the chamber, and connect it with the network analyzer 3. Test the antenna passive test result with the test software	See the test data

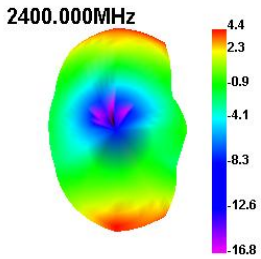
Test data：

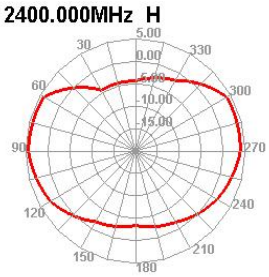
Freq (MHz)	Band	Effi (%)	Gain (dBi)
2400	WIFI 2.4G	77.86	4.43
2420		76.57	4.21
2440		75.87	4.08
2460		73.39	3.53
2480		72.58	3.35

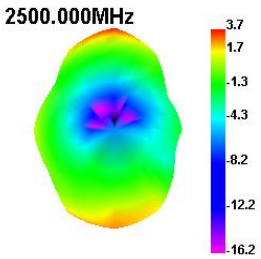
Standing wave pattern：

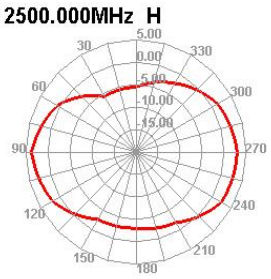


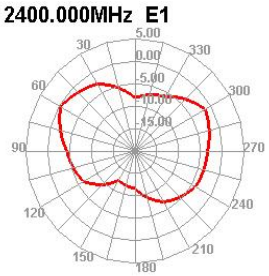
Radiation Pattern：

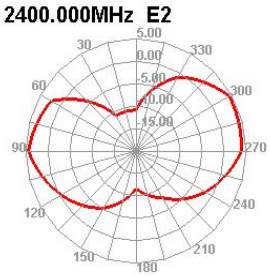


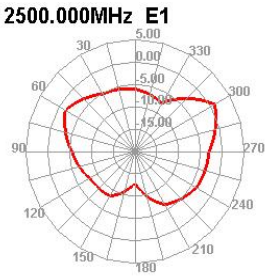


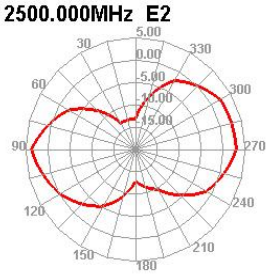




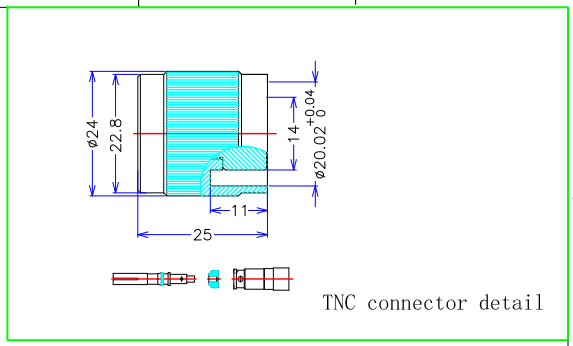






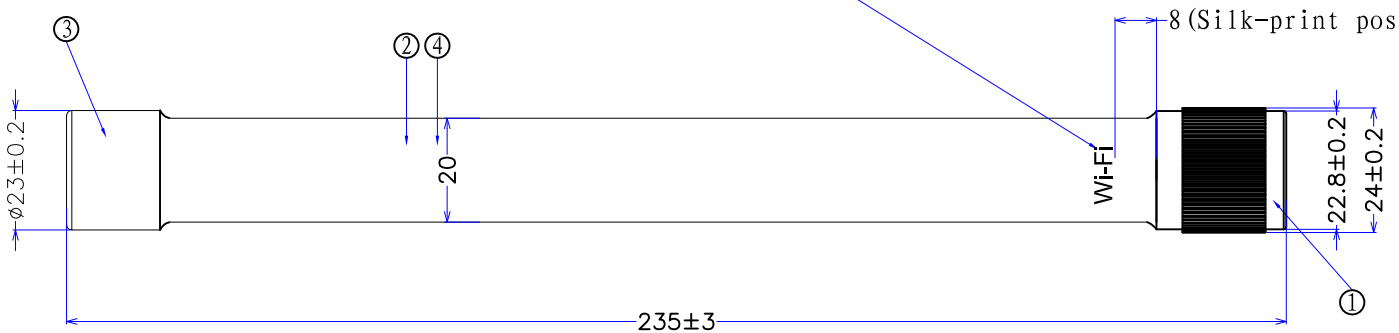


Sample picture：



TNC connector detail

1. Laser silk-print "Wi-Fi"
2. Three silk-print around the tube, each 120° with one silk-print
3. Font is Arial+Baltic, height is 3.5mm, clear and distinct



Technical requirement:

1. The connector is IP67 and pass 96H salt spray test
2. The surface of the TNC connector and the cover is Copper plated ternary alloy, Fiberglass surface is white baking painted, no dirty and scratch
3. The parts must be rinsed and grind after processed, assure without no residue and copper slag, then paint spraying
4. The two ends of the antenna put on the EPE foam, each 6pcs in one layer, each 6 layers in one carton, with carton marks

NO.	NAME	DESCRIPTION	QT'Y
④	YHT-001B-05A	1mmDR4, Fake double layer PCB, Black coating on foreside, Anti-oxidation on the feed point B	1
③	BGS-065A-19A	Cover, Copper plated ternary alloy	1
②	BGS-065A-10A	Φ20 Glass fiber, surface is white baking painted	1
①	BGS-484Z-45T	RP-TNC-J, surface is Copper plated ternary alloy	1

Change the PCB board route B		2023-3-1	
Change the content		Change the date	
Tolerance	Design		
Others do not exceed ±0.2	Approve		
	Reviewed		

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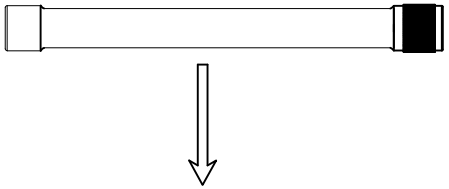
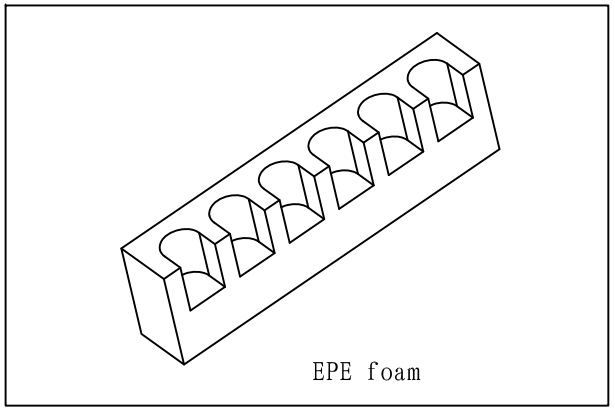
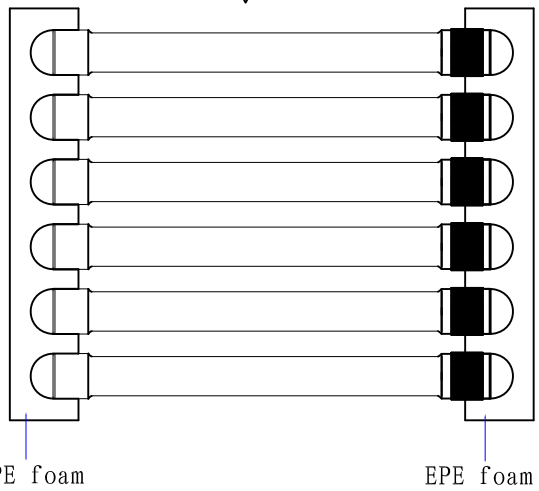
Part No.	BGS-065C	Material	Glass fiber
Customer No.	\	Version	RB
Part Name	Wi-Fi	Project No.	BGS-065
Issue Date	2022-9-21		Page 1 of 1



The two ends of the antenna put on the EPE foam, each 6pcs in one layer,





each 6 layers in one carton

Carton size is 30*23*23mm

Package: The two ends of the antenna put on the EPE foam, each 6pcs in one layer, each 6 layers in one carton, with carton marks。

			FIBOCOM Wireless Inc.			
Change the content		Change the date	Part No.	BGS-065	Material	\
Tolerance Others do not exceed ±0.2	Design		Customer No.	\	Version	RA
	Approve		Part Name	Packaging diagram	Project No.	BGS-065
	Reviewed		Issue Date	2023-2-6		Page 1 of 1

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Product Materials Ingredient Declaration Form

Product Description		WiFi Fiberglass Antenna/BGS-065C(RB version)	MPN		210300000031			Declaration Date		2023/3/17
Company Name		FIBOCOM Wireless Inc.	Contact person		Zhang Ming			Phone NO.		0755-86083452
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	FRP external	Unsaturated Polyester Resin	ND	18	ND	ND	ND	ND	CANEC2213886402	2022/7/1
2	TNC Connector	bronze	ND	37693	ND	ND	ND	ND	SHAEC2215226310	2022/10/31
3		PTFE	ND	ND	ND	ND	ND	ND	CANEC2227078704	2022/12/28
4	PCB	FR4	ND	ND	ND	ND	ND	ND	CANEC2221844508	2022/10/24
5		UV text ink	ND	ND	ND	ND	ND	ND	C230217057002-1	2023/2/17
6		UV solder resist ink	ND	ND	ND	ND	ND	ND	C230217057001-1	2023/2/17
7	Wire	metal	ND	ND	ND	ND	ND	ND	A2230079122101002E	2023/3/7
8		nonmetal	ND	ND	ND	ND	ND	ND	A223007912210101ER1	2023/3/7
9		Fluoroplastics	ND	ND	ND	ND	ND	ND	A223079122103001E	2023/3/10

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