



深圳市博格斯通信技术有限公司  
shenzhen bogesi communication technology co., ltd

PRODUCT ACKNOWLEDGEMENT

Customer name: Computime


Customer code: \_\_\_\_\_

Product Description: WIFI 2.4G ANT

Manufacturer's code: JBT-009A (RA)

Product manufacturer: Shenzhen Bogesi Communication Technology Co., Ltd

Date of admission: 2022.8.4

Supplier seal	Customer seal
	

Note: 1. After the sealed electronic or paper document of Borges is provided to the demander, the demander shall sign back the paper or electronic document of acknowledgement to Borges before placing the formal order to Borges. If there is no formal change or change notice, Borges will assume that the demander recognizes and accepts the products described in the specification.

2. The intellectual property of this product is owned by Shenzhen Boggs Communication Technology Co., LTD. Without our permission, please do not apply for the patent of this product in any other name, and please do not disclose this product and related information to others or provide a third party to read and use.



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## Scope of use:

Suitable for Computime WIFI 2.4G antenna scheme.

## Electrical specifications:

Frequency band	2400-2500MHz	Antenna material	FPC
Input impedance	50Ω	Antenna connection mode	Second generation connector connection
Standing wave ratio	≤3.0	Operating temperature	-40℃~+85℃
Antenna gain	See test data	Long-term storage temperature	+19℃~+23℃
Polarization mode	Linear polarization		

## Test instruments and methods:

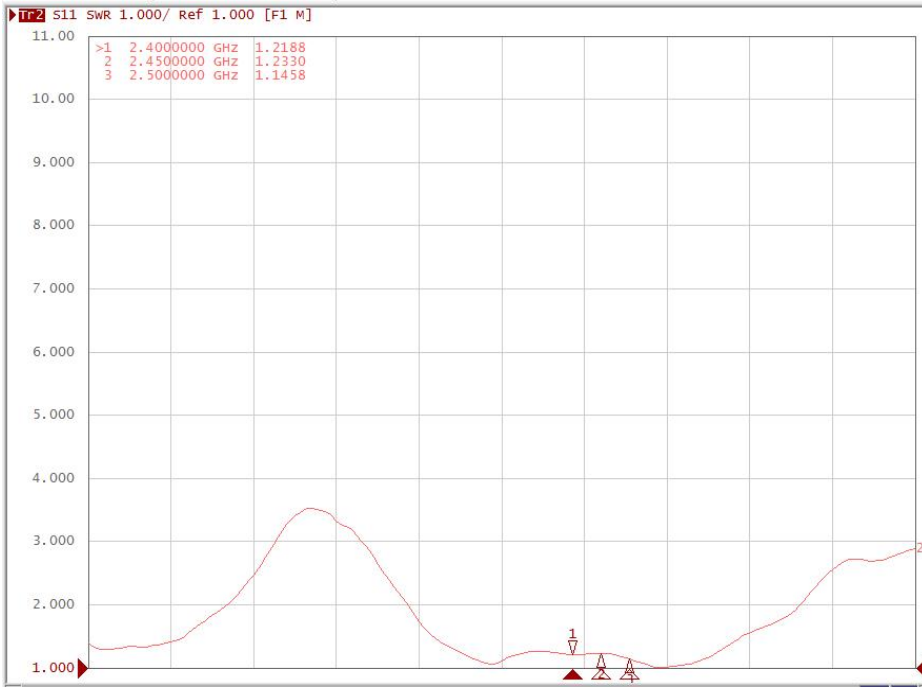
Testing instrument	Test method	Test result
1、7 x 4 x 3 microwave 2、darkroom Aglient E5071B Network analyzer	1. Assemble the antenna to be tested on the prototype to make passive test fixture 2. Place the passive fixture on the test fixture in the dark room and connect it to the network analyzer 3. Test the passive antenna data with the test software	See test data

## Test data:

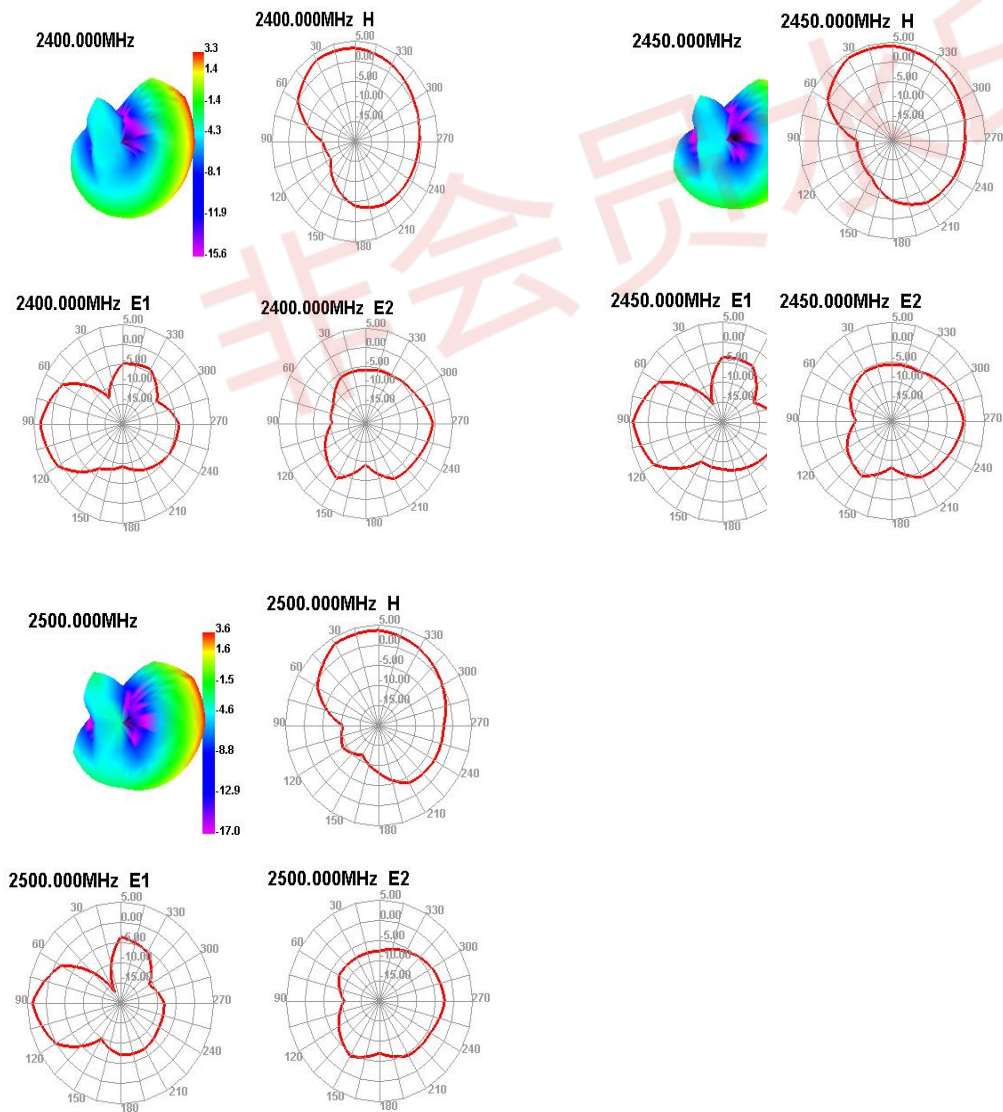
### 1、Passive efficiency and gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	54.42	3.3
2410	59.67	3.82
2420	54.46	3.47
2430	53.65	4.23
2440	53.81	3.61
2450	57	3.99
2460	48.72	3.49
2470	55.57	4.21
2480	49.14	3.78
2490	53.42	4.28
2500	45	3.63

2、Waveform diagram:



3、Direction chart:





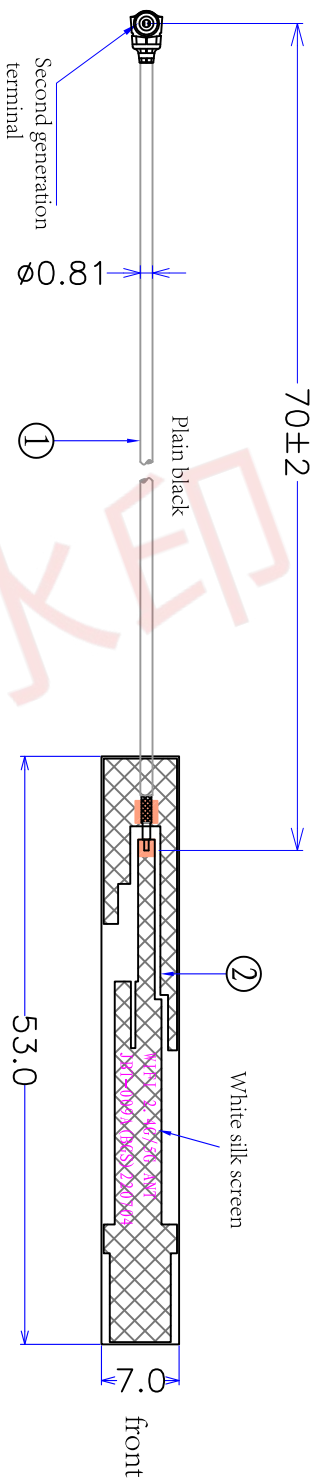
Sample picture:



Antenna installation diagram:



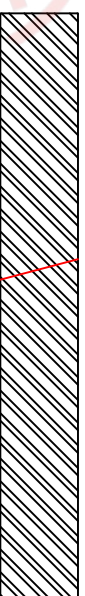
Paste the upper right corner of the antenna flush with the shell



- ..... Silk screen
- ..... Antioxidant part
- ..... Empty film part
- ..... Line section
- ..... Glue back part

1、 Each 100 antenna components shall be packed in a small package, 10 small packages and a large package, and then packed;  
 2、 If "+" or "-" is added to the content of silk screen printing, it is our mark to distinguish suppliers, but the product performance, material and processing technology are identical;

Back adhesive paper segmentation figure



back

NO.	PART NO.	NAME	DESCRIPTION	QT'Y
②	JBT-009A-01A	Antenna radiation unit	FP-C,Front spray surface black oil, feed point anti-oxidation, one side back glue	1
①	JBT-009A-20J	Radio frequency connection line	ØD0.81MM, black outer cover, one end stripping, one end rivet second generation	1

Change content		Change date		Product number		Customer number		Antenna module		material		FP-C+CABLE	
Tolerance range		其它不超过±0.2		design audit calibration		JBT-009A		\		version		RA	
BGS 博格斯特通信技术有限公司 Bogesi Organism Magnet Industry Co.,Ltd				Date of issue		2022-8-4		Item number		JBT-009A		Page 1 1 page	



## Antenna package

### 1、Outer packing (carton packing)

Front view:



Side view:



### 2. Inner packaging (one small package for every 100PCS, 10 small packages and one large package, and then packing, the size of the packaging bag depends on the product size)





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Product material composition declaration table

Product name		WIFI 2.4G ANT	Product model		JBT-009A			Date of declaration		2022/8/4
Company name (Seal)		Shenzhen Borges Communication Technology Co. LTD		Contact person		Zhou Xuebing		telephone		0755-86083452
Serial number	Component name	Homogeneous material name	The amount of RoHS limiting substances contained in homogeneous materials (ppm)						Test report number	Test date
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	Antenna radiation unit	Flexible copper-clad sheet with adhesive	ND	ND	ND	ND	ND	ND	SHAEC2202460504	2022/2/21
2		Printing ink	ND	ND	ND	ND	ND	ND	ETR21805816	2021/9/3
3		3M glue	ND	ND	ND	ND	ND	ND	SHAEC2118728901	2021/9/4
4	Wire rod	Silver plated copper wire	ND	ND	ND	ND	ND	ND	SHAEC2127051115	2021/12/16
5		Tinned copper wire	ND	ND	ND	ND	ND	ND	SHAEC2118552905	2021/8/30
6		insulation	ND	ND	ND	ND	ND	ND	NGBML2200124301	2022/1/27
7	terminal	electroplating	ND	ND	ND	ND	ND	ND	A2210343821101002E	2021/8/31
8		Rubber core	ND	7.25	ND	ND	ND	ND	ETR21801381	2021/8/13
9		Copper plate	ND	68	ND	ND	ND	ND	SZXEC2103406722	2021/11/11

Made by: Liang Jinghua

Reviewer: Liang Deliu

Explanation:

The material analysis expansion table is similar to the machine BOM of our company, which describes the composition of each material provided by the supplier, and then carries out RoHS control for each composition (in other words, the supplier should carry out RoHS compliance management for his suppliers and provide the inspection certificate of each third party).

A complete material analysis expansion table, which includes:

1 Material expansion table: component composition decomposition

2 The amount of RoHS limiting substances contained in homogeneous materials (ppm)