



SPECIFICATION FOR APPROVAL

Customer Name Edan

Customer P/N.

Product Description V8 WIFI 2.4G/5G ANT

BGS P/N LBS-023A (RA version)

Manufacturer Shenzhen bogesi communication technology co.,ltd

Approve Date 2026/9/15

BGS Sign and Seal	Customer Sign and Seal

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

2. The relevant intellectual property rights of this product are owned by Shenzhen Bogesi Communication Technology Co., Ltd. Without the permission of our BGS, 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.



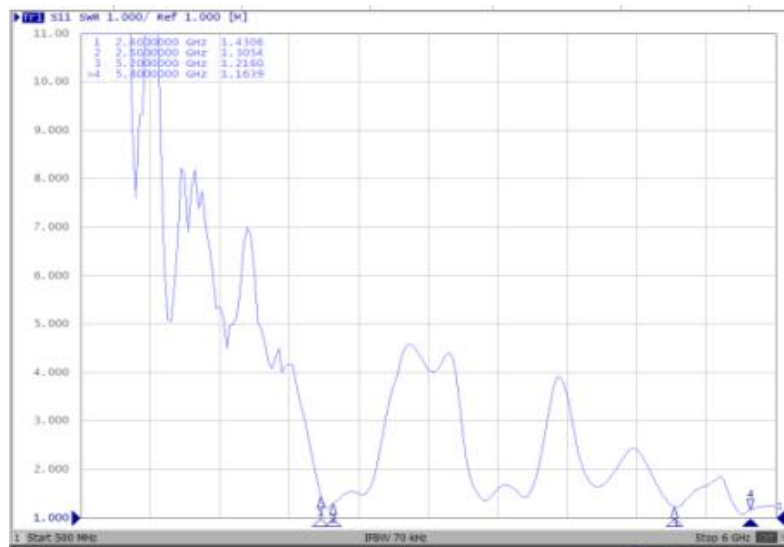
1. Antenna Specification

1.1: Electrical Specification	
Freq.Range (MHz)	2400-2500; 5150-5850
Impedance (Ω)	50
VSWR	≤ 3
Directional	Omni directional
Polarization	Linear
Gain (dBi)	2400-2500MHz: $3.33\text{dBi} \leq \text{gain} \leq 4.22\text{dBi}$
	5100-5825MHz: $2.43\text{dBi} \leq \text{gain} \leq 4.33\text{dBi}$
1.2: Mechanical Specification	
Material	FPC+FR4
RF Cable Type	RF1.13
Connector Type	first-generation terminal
1.3: Environmental Specification	
Operation temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Storage temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



3.Test Report

3.1: VSWR



3.2: Active test data

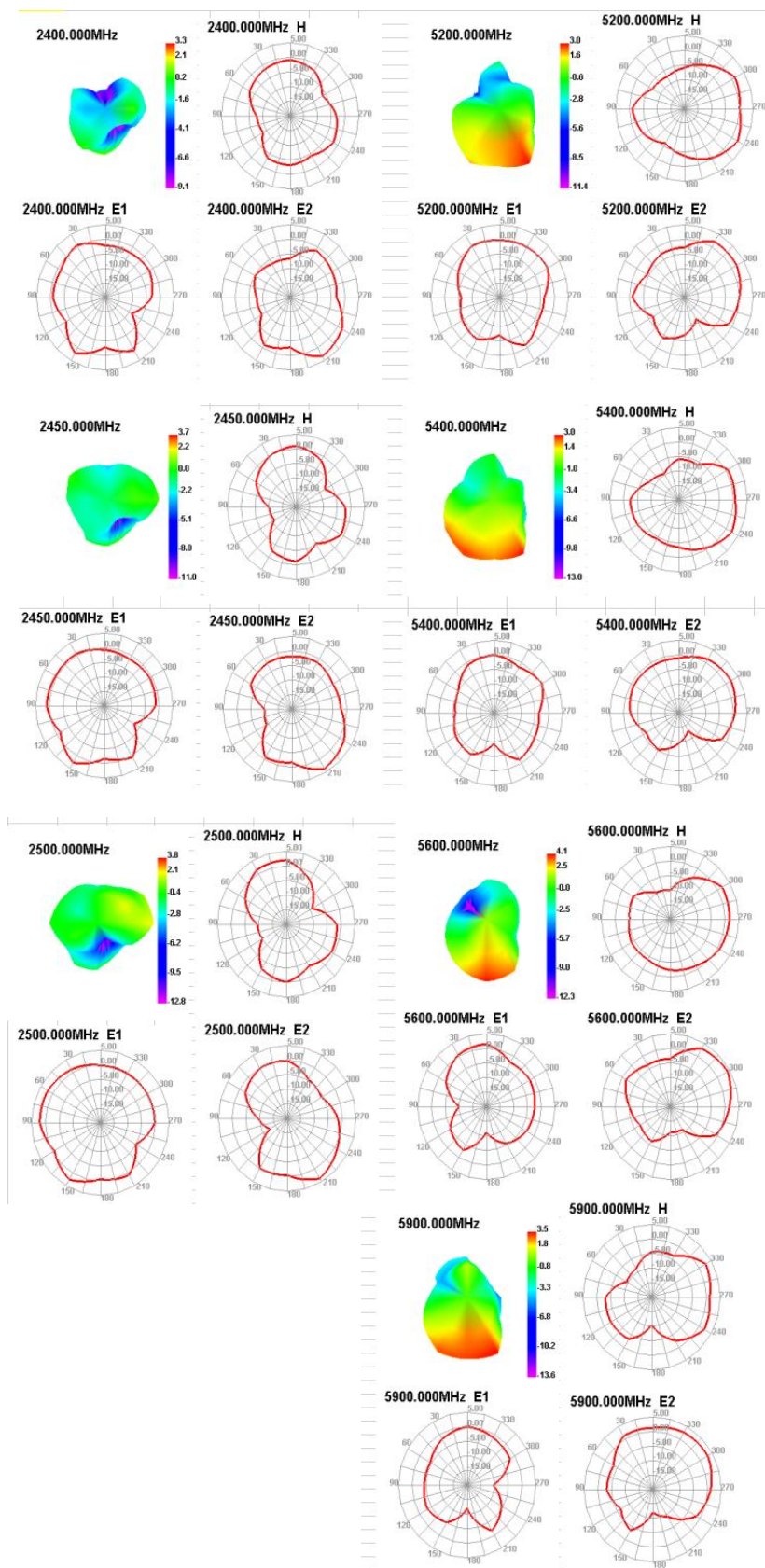
Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	Low	10.53	-65.33
	Mid	14.15	-61.88
	High	10.16	-56.98
5G	Low	10.15	-67.12
	Mid	9.58	-68.82
	High	8.02	-64.4

3.3: Antenna efficiency and gain

Freq (MHz)	Effi (%)	Gain (dBi)
2400	45.61	3.33
2410	47.45	4.07
2420	51.2	4.2
2430	49.69	3.68
2440	52.48	4.22
2450	47.35	3.69
2460	48.52	4.01
2470	50.75	4.01
2480	47.97	3.61
2490	52.5	4.02
2500	48.14	3.78

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5100	44.81	3.72	5475	52.65	3.69
5125	48.2	3.42	5500	47.04	2.54
5150	44.42	3.21	5525	48.05	2.7
5175	42.51	3.79	5550	45.67	3.12
5200	46.55	3.01	5575	46.54	4.01
5225	53.08	3.28	5600	45.23	4.09
5250	40.16	2.43	5625	50.1	4.32
5275	51.49	3.02	5650	43.26	3.84
5300	46.26	2.67	5675	45.73	4.33
5325	44.2	2.87	5700	42.51	3.58
5350	45.89	3.06	5725	46.6	3.73
5375	49.36	3.64	5750	42.73	3.45
5400	45.21	2.95	5775	45.34	3.36
5425	45.96	3.09	5800	43.35	3.29
5450	50.1	3.58	5825	48.02	3.88

3.4: Directional diagram



A

A

B

B

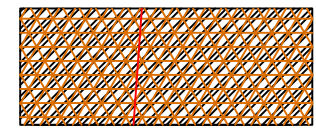
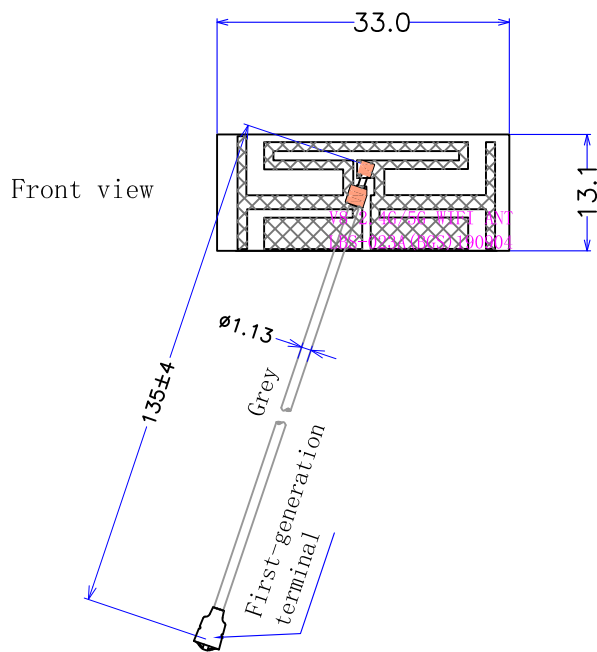
C

C

D

D

-  Reinforcement part
-  Screen printing part
-  Antioxidant part
-  Empty membrane part
-  Line section
-  Part of gum



Back view

The adhesive paper is divided as shown in the figure

1. Pack one small package for every 100 antenna components, then pack another large package for every 10 small packages, and finally 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;

②	LBS-023A-01A	FPC	FPC+FR4, Spray black oil on the front, anti-oxidation feed point, single-sided adhesive backing	1
①	LBS-023A-21B	Cable	1.13MM, Grey, one end stripped and plated, one end First-generation terminal	1
NO.	PART NO.	NAME	DESCRIPTION	QT'Y

		 Shenzhen Bogesi Communication Ttechnology co.,ltd			
Modify content		Modify date		Product NO.	LBS-023A
				Material is qualitative	FPC/Cable
		Designer		Client NO.	\
		Auditing		Version of this	RA
		Part name	Antenna	Item no.	LBS-023
		Approve		Publish date	2019-10-11
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