



SPECIFICATION FOR APPROVAL

Customer Name	Edan	
Product Model NO. :		
Specification	iM3 2.4/5G WIFI	
MPN:	LBS-008A (RB version)	
Manufacturer	Shenzhen Bogesi Communication Technology Co., Ltd Room 601, Saiba Electronic Technology Park, Langshan No. 2 Road, Nanshan District, Shenzhen	
Approve Date	2025/10/16	
Supplier 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 acquiesce that the customer approve and accept this specification of product .

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深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co.,ltd

Application:

Applied on the Edan's iM3 project

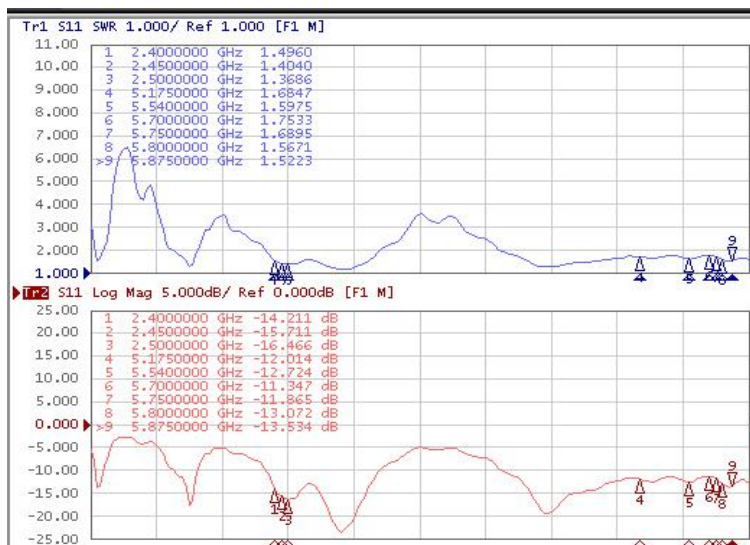
Electrical specifications:			
Frequency band	2.4/5.8G	Antenna material	FPC
Impedance	50Ω	Antenna connect type	Connector
VSWR	≤3.0	Polarization	Linear polarization
Gain	2400–2500MHz:0.28dBi≤gain≤1.58dBi	Working Temperature	-40℃～+85℃
	5100–5825MHz:0.04dBi≤gain≤3.49dBi	Storage Temperature	+19℃～+23℃
TRP&TIS:			
Test instruments	Test Method		Test result
BLUETEST.se RTS60 Chamber CMW5000	1.Assemble the antenna inside device 2. OTA RF test in anechoic chamber 3. Measuring TRP and TIS		see the test data
Test conditions and instruments			
Test instruments	Test Method		Test result
7×4×3 anechoic chamber + Aglient E5071B Network analyzer	1.Assemble the antenna inside device 2. Put the device on the fixture in the chamber, and connect with the network analyzer 3. Test the passive test data using the test software		see the test data

Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	Low	11.24	-57.82
	Mid	14.3	-60.87
	High	11.1	-61.42
		11a/6M	11a/54M
5G	Low	9.15	-63.25
	Mid	7.46	-64.54
	High	5.17	-63.18

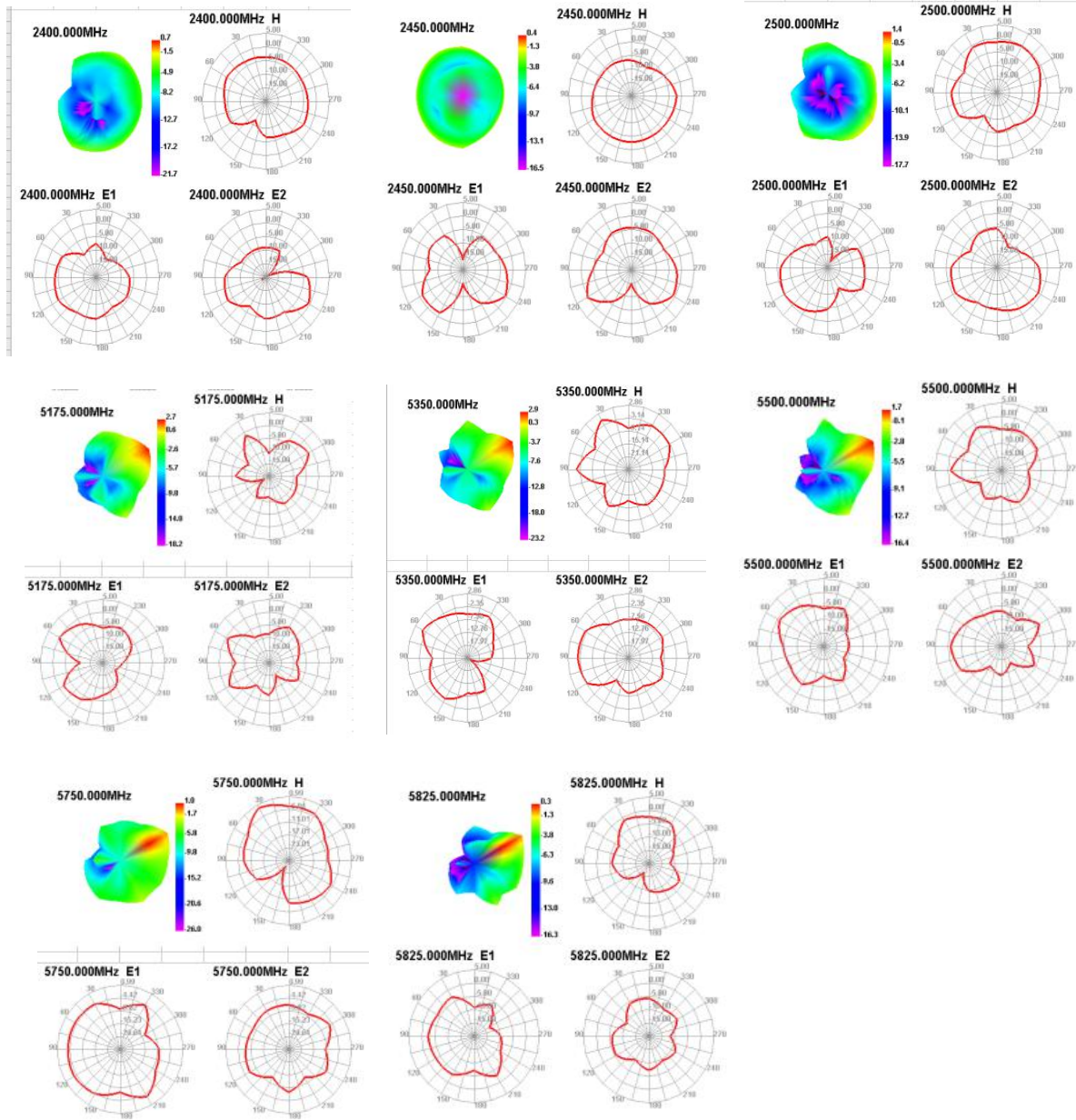
Antenna Efficiency:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.52	0.73	5125	39.84	2.05	5500	38.54	1.71
2410	41.79	0.98	5150	38.6	1.57	5525	36.63	0.53
2420	40.41	0.73	5175	42.05	2.65	5550	35.22	0.35
2430	41.15	0.65	5200	37.26	1.82	5575	37.18	0.76
2440	39.9	0.28	5225	41.25	2.62	5600	37.39	1.05
2450	38.87	0.37	5250	40.59	2.27	5625	38.78	1.66
2460	40.13	0.44	5275	41.35	2.48	5650	37.23	1.22
2470	44.04	1.01	5300	42.37	2.49	5675	36.1	1.44
2480	42.02	0.8	5325	42.97	2.68	5700	36.27	1.62
2490	46.06	1.58	5350	42.51	2.86	5725	35.55	1.28
2500	45.75	1.35	5375	45.18	3.49	5750	35.92	0.99
			5400	41.74	2.1	5775	35.49	0.86
			5425	42.14	3.12	5800	32.1	0.04
			5450	40.96	2.42	5825	34.5	0.34
			5475	40.55	2.21			

Antenna S11:



Radiation Pattern:





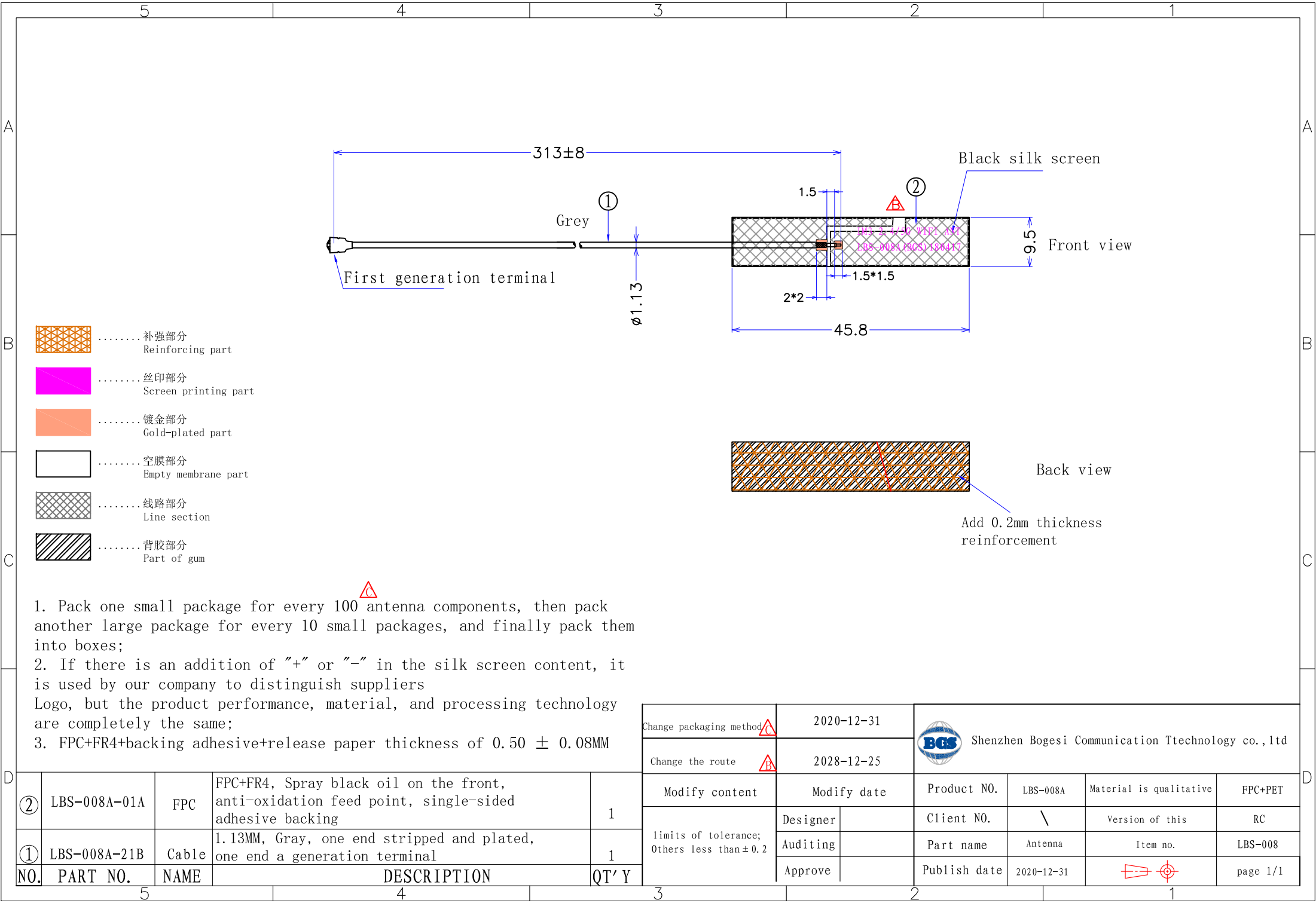
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Sample picture:



Antenna installation diagram:





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;
3. FPC+FR4+backing adhesive+release paper thickness of 0.50 ± 0.08 MM

D	②	LBS-008A-01A	FPC	FPC+FR4, Spray black oil on the front, anti-oxidation feed point, single-sided adhesive backing	1	limits of tolerance; Others less than ± 0.2	Modify content		Modify date		Product NO.	LBS-008A	Material is qualitative	FPC+PET
	①	LBS-008A-21B	Cable	1.13MM, Gray, one end stripped and plated, one end a generation terminal	1		Designer		Client NO.	\	Version of this	RC		
							Auditing		Part name	Antenna	Item no.	LBS-008		
							Approve		Publish date	2020-12-31		page 1/1		
	NO.	PART NO.	NAME	DESCRIPTION			QT' Y							
5					4		3		2		1			