

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

SPECIFICATION FOR APPROVAL

Customer Name		Edan			
Product Model NO. :	01.06.016849010				
Specification	AX	9 WIFI-2			
MPN:	LBS-045[O (RA version)			
Manufacturer	unication Technology Co., Ltd				
Approve Date	202	22/11/23			
Sup	oplier 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.

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.



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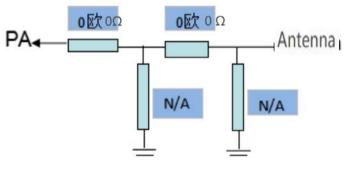
Application: Application	plied on the	Edan's AX9	project
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Electrical specific	ations:		
Frequency band	2.4G/5.8G	Antenna material	FPC
Impedance	50Ω	Antenna connect type	Connector
VSWR	≤3.0	Polarization	Linear polarization
	2400-2500MHz:-2.35dBi≤gain≤-0.74dBi	Working Temperature	-40°C∼+85°C
Gain	5150-5850MHz:-1.76dBi≤gain≤0.37dBi	Storage Temperature	+19℃~+23℃
TRP&TIS:			
Test instruments	Test Method	Test result	
BLUETEST.se RTS60 Chamber CMW5000	1.Assemble the antenna inside device2. OTA RF test in anachoic chamber3. Measuring TRP and TIS	see the test data	
Test conditions a	nd instruments		
Test instruments	Test Method	Test result	
7×4×3 anechoic chamber + Aglient E5071B Network analyzer	1.Assemble the antenna inside device2. Put the device on the fixture in the chamle network analyzer3. Test the passive test data using the test seems.	see the test data	

Active test data:

Band	Channel	TRP	TIS
		11g/6M	11g/54M
	Low	5. 37	-58. 08
2. 4G	Mid	7. 56	-59.88
	High	6. 7	-58. 63
		11a/6M	11a/54M
	Low	7.4	-68. 1
5G	Mid	5.8	-67. 2
	High	7.4	-66. 7

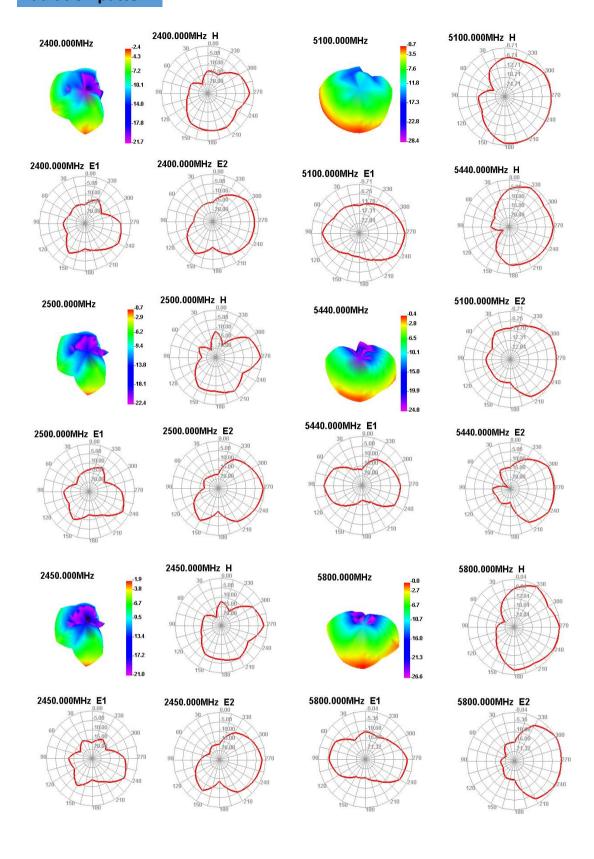
Antenna circuit matching



Passive test data

Passive	Test For	2.4-2.5	Passive Test For 5100-5900					
Freq	Effi	Gain	Freq	Effi	Gain	Freq	Effi	Gain
(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)	(MHz)	(%)	(dBi)
2400	16.49	-2.35	5100	22.6	-0.71	5460	22. 75	-0.56
2410	18.53	-1.67	5120	21.07	-1.04	5480	27.13	0.01
2420	19.87	-1	5140	18.68	-1.41	5500	21.05	-1.01
2430	16.76	-1.43	5160	22.54	-0.57	5520	21.51	-1.03
2440	15. 27	-1.57	5180	20.99	-0.73	5540	21.09	-1.14
2450	13.76	-1.91	5200	19.76	-0.72	5560	18.71	-1.76
2460	16.2	-1.11	5220	26.58	0.37	5580	21.3	-1.14
2470	15.11	-1.21	5240	21.67	-0.48	5600	19.6	-1.38
2480	16.47	-0.82	5260	24. 9	-0.05	5620	18.9	-1.43
2490	13.81	-1.6	5280	22.9	-0.26	5640	20.82	-1.28
2500	16.62	-0.74	5300	20.44	-0.67	5660	17.58	-1.69
		v 10.000015	5320	24. 29	-0.22	5680	19.75	-1.39
			5340	21.26	-0.78	5700	20.08	-1.18
			5360	23.53	-0.35	5720	17.99	-1.57
			5380	25. 21	0.05	5740	20.92	-0.93
			5400	21.89	-0.69	5760	21.46	-0.72
			5420	26.2	0.11	5780	20.77	-0.78
			5440	23.07	-0.4	5800	24.65	-0.04

Radiation pattern

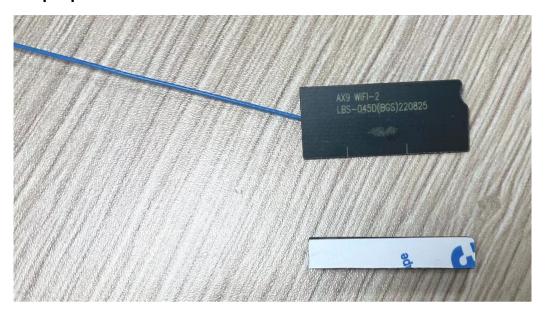


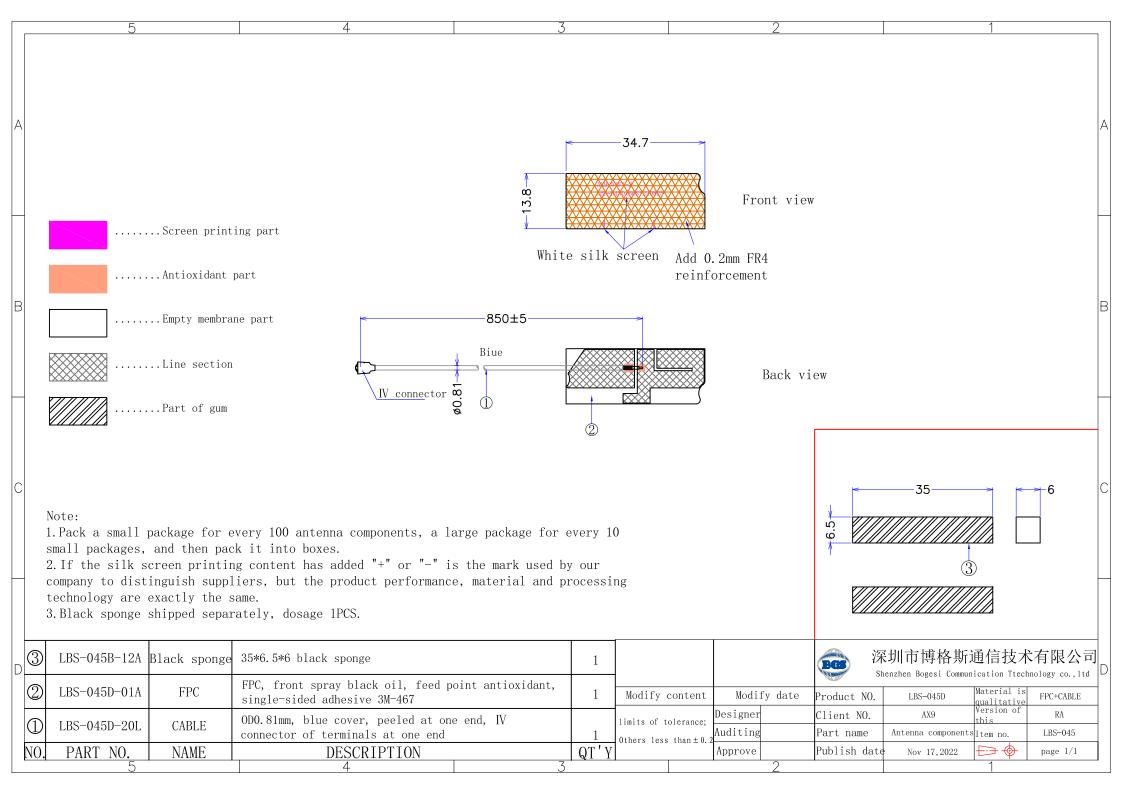


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Sample picture:







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Antenna Package

—, Outer package: carton box

Front view:



Side view:



Inner package (100pcs antennas in 1 small PE bag,10pcs small PE bags in one big PE bag, the PE bag size is depend on the antenna size, the conductive fabric in the whole package)





Product Materials Ingredient Declaration Form

Product Name		AX9 WIFI-2	Model NO.		LBS-045D		Declaration Date		2022/11/24	
Company Name		Shenzhen Bogesi Communication Technology Co., Ltd	Contact person		Xuebing Zhou		Phone NO.		0755-86083452	
NO.	Part name	Homogeneous Material Name	The hor	The homogeneous material contains the value restricted substance (ppm)				of RoHS Certification number		Test date
		nomogeneous material name	Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	Antenna	Flexible Copper Clad Laminate	ND	ND	ND	ND	ND	ND	SHAEC2202460504	2022/2/21
2	radiation unit	Printing inks	ND	ND	ND	ND	ND	ND	ETR22705905	2022/8/5
3		3M	ND	ND	ND	ND	ND	ND	CHNEC2200386501	2022/1/12
4		Siver coated Copper	ND	ND	ND	ND	ND	ND	SHAEC2127051115	2021/12/16
5	wire	Tinned copper	ND	ND	ND	ND	ND	ND	A2220186128101ER1	2022/5/17
6		Insulation	ND	ND	ND	ND	ND	ND	NGBML2200124301	2022/1/27
7		Gold plating	ND	ND	ND	ND	ND	ND	A2220404860101001C	2022/9/17
8	 	PBT	ND	ND	ND	ND	ND	ND	NGBEC22001678607	2022/6/7
9		Copper plate	ND	5	ND	ND	ND	ND	CANEC2201952007	2022/2/18
Made by: JINGHUA LIANG		Reviewe	ed by	DELIU LI	ANG	•				

Description:

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