

深圳锦弘霖科技有限公司

SHENZHEN JHL FINTECH TECHNOLOGY LIMITED

承认书编号: JHL-RD-

承 认 书	
SPCIFICATION FOR APPROVAL	
供应商名称 Supplier Name	深圳市博格斯通信技术有限公司 Shenzhen Bogus Communication Technology Co., Ltd.
机型 Model Number	BHZ800 Fingerprint-Free
物料编码 Part Number	R. 1. 14. BHZ80010-0403
物料名称 Part Name	antenna
规格描述 Destription	(JHS-071A) BHZ800CAT1 main antenna fingerprint-free module version for LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-FDD: /B34/B38/B39/B40/B41 Borges
样品类型 Sample Type	? Standard Sample ☐ Limitation Sample (Applicable only to xx order; This material cannot be used after xx time
环保要求 EnvironmentalRequirements	☒ RoHS ☒ REACH ☐ HF ☐ CP65 ☐ CPSIA
发行日期 Publish Date	2026-1-15

供 应 商 签 盖

Supplier signature

制作 Created By	审核 Checked By	批准 Approved By	供应商加盖公章处 The supplier is stamped
联系电话 Contact Number	联系地址 Contact Address		
181 2706 3309	深圳市南山区粤海街道科技中一路 19 号赛百诺 B 栋 308		

客 户 签 盖

Customer sign-off

硬件 Hardware	结构 tructure	包材 Packaging	软件 Software	客户加盖公章处 The customer is stamped
测试 Test	质量 Quality		批准 Approved by	
	☐ Through trial production ☐ Pass the reliability test			

Note: 4 copies in total. Copy 1 and 2: Quality; Copy 3: R&D; Copy 4: Supplier.

The Xth document; a total of 4 documents



SPECIFICATION FOR APPROVAL/产品承认书

Customer Name

客户名称: Shenzhen Jin Hong Lin Technology Co., Ltd.

Customer P/N.

客户料号: R.1.14.BHZ80010-0403

Product Description

产品描述: (JHS-071A) BHZ800CAT1 main antenna fingerprint module-free

version for LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-FDD:
/B34/B38/B39/B40/B41 Borges

BGS P/N

博格斯料号: JHS-071A (RB Version)

Manufacturer

制造商: Shenzhen Borges Communication Technology Co., Ltd.

Approve Date

承认日期: January 15th, 2026

BGS Sign and Seal/供应商签章	Customer Sign and Seal/客户签章

Change the content/变更内容	Version/版本	Date/日期
	RA	2025/11/15
	RB	2025/11/21

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Directory/目录

Cover/封面-----	1
Directory/目录-----	2
Antenna Specification/天线技术参数-----	3
Antenna Picture and Installation Instructions/天线图片及安装说明-----	4
Test Report/测试报告-----	5
Finished Product Drawing/成品图-----	6
Package Drawing/包装图-----	7
ROHS Report/ROHS报告-----	8



1. Antenna Specification/天线技术参数

1.1: Electrical Specification/电气特性

Freq.Range/频段范围（MHz）	700-960MHz； 1700-2700MHz
Impedance/阻抗（Ω）	50
VSWR/驻波比	≤3
Directional/辐射方向	Omni directional
Polarization/极化方式	Linear
Gain/增益（dBi）	700-960MHz： 0.11dBi
	1700-2700MHz： 2.27dBi

1.2: Mechanical Specification/机械指标

Material/材质	FPC
RF Cable Type/射频线型号	not have
Connector Type/连接器类型	Contact at the top

1.3: Environmental Specification/环境指标

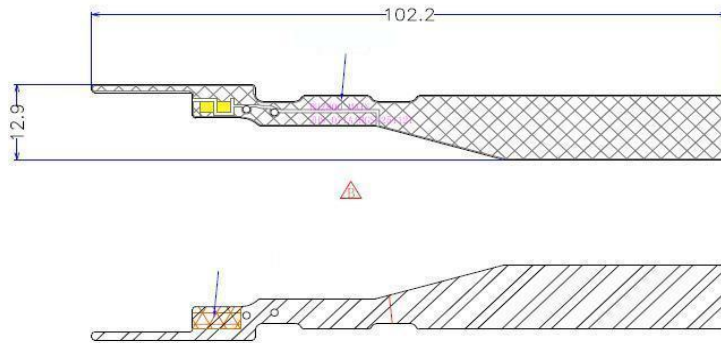
Operation temp/工作温度	-40℃～+85℃
Storage temp/储存温度	+19℃～+23℃



2. Antenna Picture and Installation Instructions/天线图片及安装说明

2.1: Antenna Picture/天线图片

unit : mm



2.2: Installation Instructions/安装说明(以下天线图片仅供安装示意)





1. Antenna Specification/天线技术参数

1.1: Electrical Specification/电气特性

Freq.Range/频段范围（MHz）	1700-2700MHz
Impedance/阻抗（Ω）	50
VSWR/驻波比	≤3
Directional/辐射方向	Omni directional
Polarization/极化方式	Linear
	1700-2700MHz: 2.38dBi

1.2: Mechanical Specification/机械指标

Material/材质	FPC
RF Cable Type/射频线型号	no
Connector Type/连接器类型	A generation of terminals

1.3: Environmental Specification/环境指标

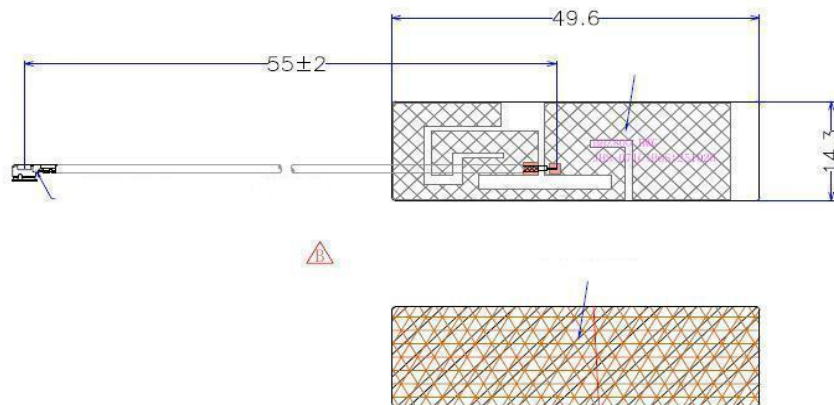
Operation temp/工作温度	-40℃～+85℃
Storage temp/储存温度	+19℃～+23℃



2. Antenna Picture and Installation Instructions/天线图片及安装说明

2.1: Antenna Picture/天线图片

unit : mm



2.2: Installation Instructions/安装说明





1. Antenna Specification/天线技术参数

1.1: Electrical Specification/电气特性

Freq.Range/频段范围（MHz）	1575MHz； 2400-2500MHz； 5100-5250MHz
Impedance/阻抗（Ω）	50
VSWR/驻波比	≤3
Directional/辐射方向	Omni directional
Polarization/极化方式	Linear
Gain/增益	1575MHz: 2.5dBi
	2400-2500MHz: 2.22dBi
	5150-5250MHz: 3.6dBi

1.2: Mechanical Specification/机械指标

Material/材质	FPC
RF Cable Type/射频线型号	not have
Connector Type/连接器类型	A generation of terminals

1.3: Environmental Specification/环境指标

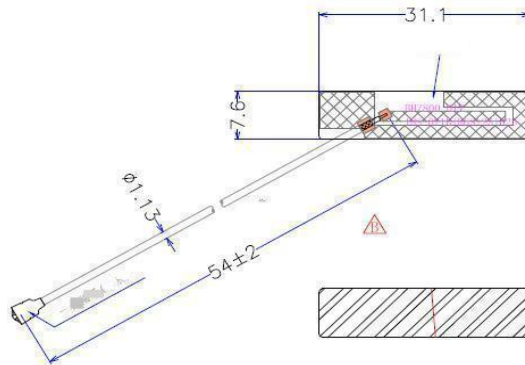
Operation temp/工作温度	-40℃～+85℃
Storage temp/储存温度	+19℃～+23℃



2. Antenna Picture and Installation Instructions/天线图片及安装说明

2.1: Antenna Picture/天线图片

unit : mm



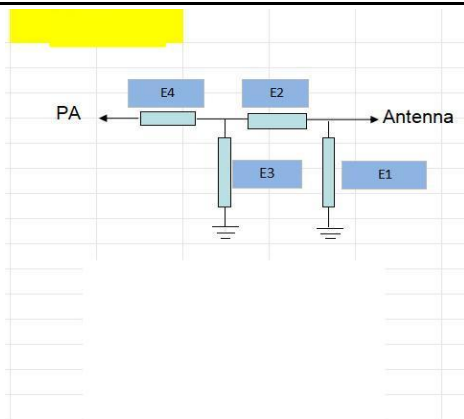
2.2: Installation Instructions/安装说明





3.Test Report/测试报告

3.1: The matching circuits/匹配电路



3.2: Active test data/有源测试数据

4G测试数据		4G test data	
Band	Channel	TRP	TIS
LTE1 (10M)	Low	18.04	
	Mid	17.19	
	High	17.25	-89.08
LTE3 (10M)	Low	16.87	
	Mid	17.65	
	High	17.66	-83.05
LTE5 (10M)	Low	15.73	
	Mid	15.63	
	High	16.15	-79.19
LTE7 (10M)	Low	16.48	
	Mid	16.49	
	High	16.46	-88.06
LTE8 (10M)	Low	16.5	
	Mid	16.17	
	High	16.01	-78.49
LTE20 (10M)	Low	15.28	
	Mid	15.63	
	High	15.73	-78.33
LTE28 (10M)	Low	14.18	
	Mid	14.29	
	High	14.51	-77.43
LTE34 (10M)	Low	16.23	
	Mid	16.55	
	High	16.43	-89.28
LTE38 (20M)	Low	15.85	
	Mid	15.65	
	High	15.82	-84.47
LTE39 (20M)	Low	17.29	
	Mid	16.81	
	High	16.19	-83.15
LTE40 (20M)	Low	16.09	
	Mid	15.88	
	High	15.66	-86.1
LTE41 (20M)	Low	16.02	
	Mid	16.16	
	High	16.42	-86.45

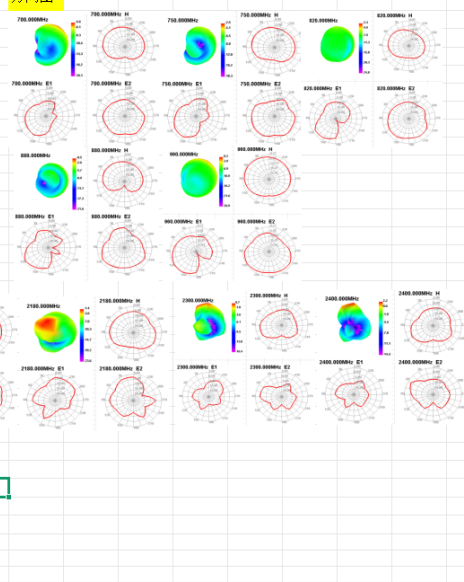
4G主天线的效率与增益 The efficiency and gain of the 4G main antenna.

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
700	15.11	-4.62	1700	22.31	-0.29	2220	22.3	-0.81
710	16.44	-4.14	1720	25.22	-0.02	2240	24.87	0.09
720	17.16	-3.76	1740	26.22	-0.09	2260	27.43	0.78
730	18.29	-3.2	1760	30.72	0.37	2280	28.67	0.92
740	19.47	-2.76	1780	30.79	0.45	2300	30.23	0.71
750	19.9	-2.5	1800	33.68	0.89	2320	32.33	1.18
760	20.03	-2.1	1820	34.58	1.43	2340	32.59	1.36
770	20.05	-2.01	1840	37.27	1.71	2360	34.6	2.04
780	19.8	-2.11	1860	34.54	1.13	2380	35.43	2.27
790	18.96	-2.25	1880	31.71	0.91	2400	36.05	2.22
800	19.57	-2.12	1900	29.36	0.56	2420	36.58	1.93
810	18.98	-2.37	1920	22.17	-0.06	2440	36.4	1.18
820	19.84	-2.31	1940	21.43	-0.69	2460	34.1	-0.05
830	19.96	-2.14	1960	21.01	-1.62	2480	32.9	-0.79
840	21.83	-1.54	1980	21.47	-2.33	2500	31.06	-1.54
850	22.38	-1.11	2000	20.16	-2.43	2520	31.02	-1.33
860	21.66	-1.03	2020	20.08	-2.35	2540	31.23	-1.31
870	22.46	-0.74	2040	20.79	-1.95	2560	28.76	-1.78
880	23.79	-0.45	2060	21.47	-1.15	2580	28.6	-2.01
890	27.11	0.11	2080	21.54	-1.51	2600	28.97	-1.87
900	26.91	-0.03	2100	22.08	-1.57	2620	27.56	-1.78
910	27.17	-0.18	2120	21.47	-1.99	2640	25.46	-2.06
920	26.94	-0.41	2140	20.48	-2.46	2660	24.98	-2.04
930	27.96	-0.45	2160	20.18	-1.91	2680	24.21	-2.19
940	30.13	-0.29	2180	20.15	-1.41	2700	24.16	-2.39
950	33.13	-0.05	2200	20.21	-1.25			
960	33	-0.22						

4G主天线的S11 The S11 of the 4G main antenna



方向图 Directional pattern





3.Test Report/测试报告

3.1: The matching circuits/匹配电路

3.2: Active test data/有源测试数据

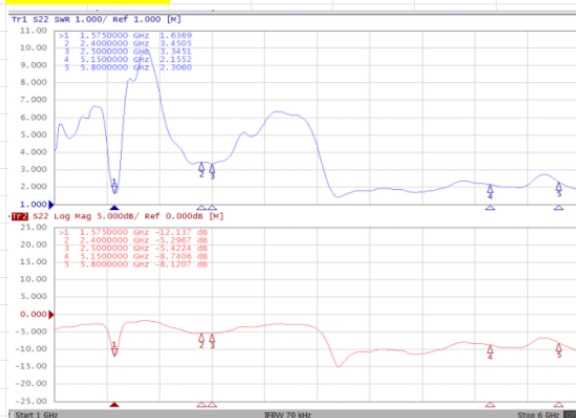
WiFi测试数据

Band	Channel	TRP	TIS
		11g/6M	11g/54M
WIFI 2.4G	Low	9.12	-65.23
	Mid	9.14	-65.1
	High	9.32	-65.65
		11a/6M	11a/54M
WIFI 5G	Low	9.54	-68.27
	Mid	9.13	-67.94
	High	9.38	-68.68

3合1天线的效率与增益

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1558	23.84	1.88	2400	25.07	0.79
1559	25.19	1.97	2410	25.31	0.85
1560	26.58	2.05	2420	26.6	1.06
1561	27.62	2.11	2430	28.37	1.3
1562	28.7	2.17	2440	30.91	1.61
1563	29.77	2.24	2450	29.86	1.43
1564	30.84	2.3	2460	30.26	1.53
1565	31.9	2.36	2470	31.03	1.72
			2480	32.19	1.98
1570	32.18	2.6	2490	32.5	2.16
1571	32.23	2.59	2500	32.63	2.08
1572	32.16	2.58			
1573	32.07	2.55	5100	25.35	2.08
1574	31.96	2.52	5120	27.1	1.83
1575	31.87	2.5	5140	28.49	2.01
1576	31.86	2.48	5160	28.02	2.65
1577	31.9	2.47	5180	28.33	2.78
1578	31.86	2.46	5200	30.62	3.18
1579	31.8	2.45	5220	31.93	3.6
1580	31.69	2.43	5240	30.84	3.38
1598	33.5	2.65			
1599	33.58	2.65			
1600	33.72	2.66			
1601	33.99	2.67			
1602	34.14	2.7			
1603	34.09	2.71			
1604	33.83	2.7			
1605	33.46	2.71			

3合1的S11



方向图

