



SPECIFICATION FOR APPROVAL/产品承认书

Customer Name

客户名称: NEW POS

Customer P/N.

客户料号: 200207011000088

Product Description

产品描述: 5320_WIFI_FPC Antenna - 2.4G - 5.8G - V01 - SC200E - Without Cable- BGS

BGS P/N

博格斯料号: HZR-112C

Manufacturer

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

Approve Date

承认日期: July 15th, 2025

BGS Sign and Seal/供应商签章	Customer Sign and Seal/客户签章
	方兆宇 2025/7/16

Change the content/变更内容	Version/版本	Date/日期
First edition	RA	2025/7/15

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1. Antenna Specification/ 天线技术参数

1.1: Electrical Specification/ 电气特性

Freq. Range/ 频段范围（MHz）	2400-2500MHz, 5150-5800MHz
Impedance/ 阻抗（Ω）	50
VSWR/ 驻波比	≤3.0
Directional/ 辐射方向	Omni directional
Polarization/ 极化方式	Linear
Peak Gain/ 峰值增益（dBi）	2400-2500MHz: 1.65dbi
	5150-5800MHz: 3.42dbi

1.2: Mechanical Specification/ 机械指标

Material/ 材质	FPC+PET
RF Cable Type/ 射频线型号	N/A
Connector Type/ 连接器类型	N/A

1.3: Environmental Specification/ 环境指标

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

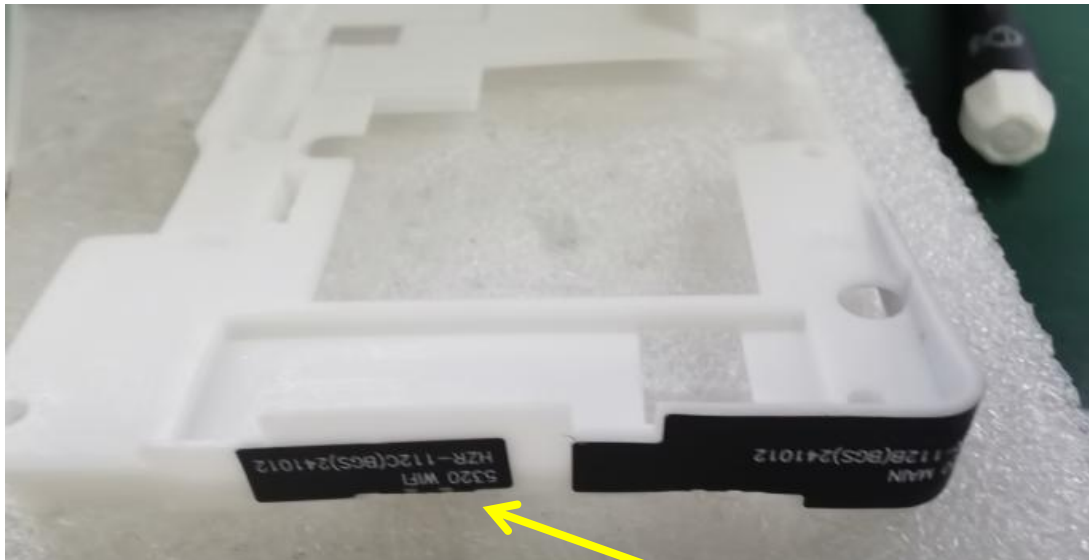


2. Antenna Picture And Installation Instructions/天线图片及安装说明

2.1: Antenna Picture/天线图片



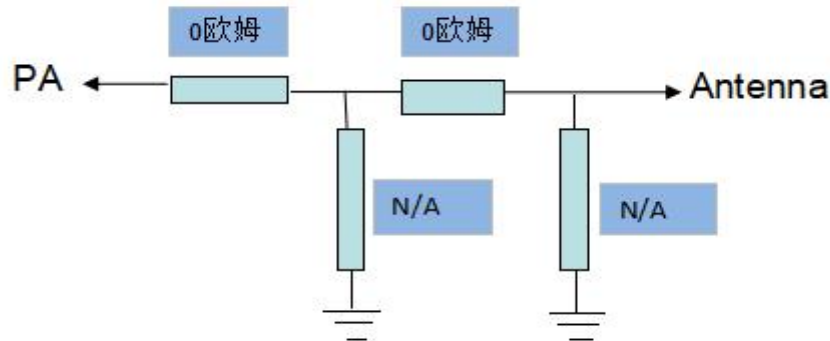
2.2: Installation Instructions/安装说明



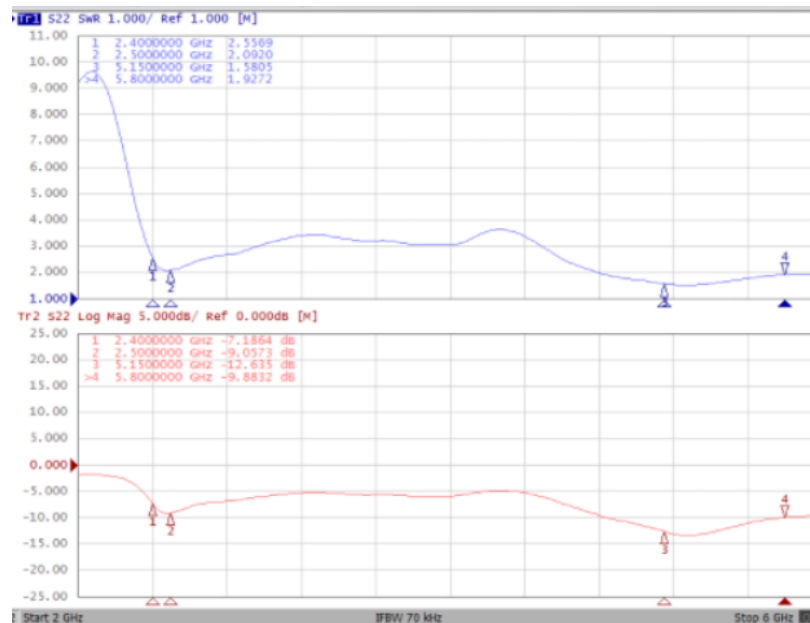


3. Test Report/测试报告

3.1: The matching circuits/匹配电路



3.2: Return loss/Smith chart/VSWR/回波损耗/史密斯图/驻波图



3.3: Antenna efficiency and gain/天线效率与增益

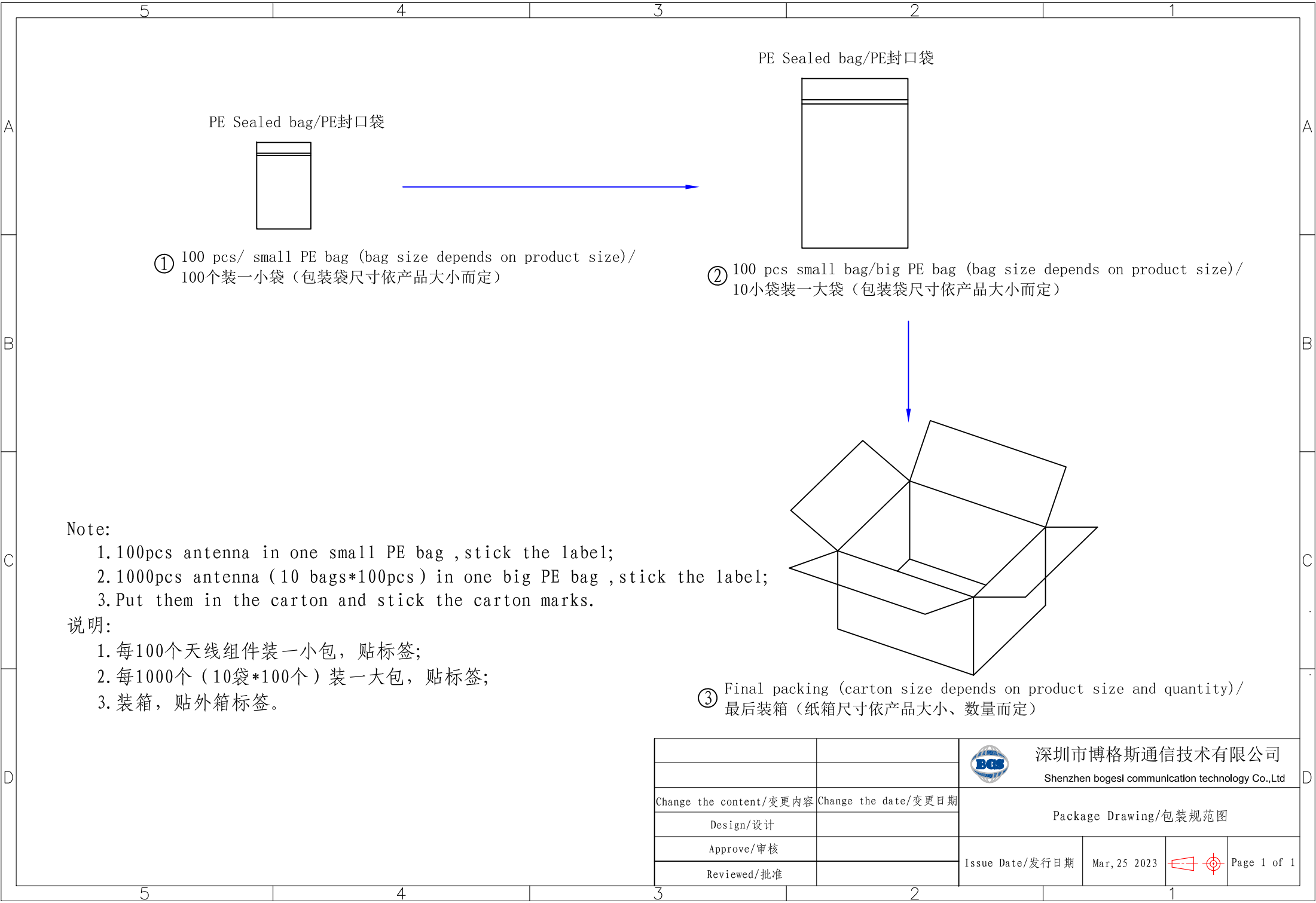
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	25.17	-1.39	5100	36.22	1.04	5520	41.24	2.35
2410	27.76	-0.56	5120	35.72	0.95	5540	40.38	1.77
2420	28.5	-0.34	5140	35.1	1.02	5560	40.64	1.25
2430	30.59	0.09	5160	34.88	1.31	5580	40.61	1.1
2440	31.07	0.29	5180	33.86	1.52	5600	41.71	1.12
2450	30.92	0.4	5200	34.65	1.96	5620	40.46	0.66
2460	30.34	0.53	5220	34.9	2.36	5640	42.69	0.98
2470	30.36	0.77	5240	36.07	2.84	5660	44.78	1.21
2480	32.39	1.27	5260	34.81	2.87	5680	41.79	1.06
2490	32.89	1.52	5280	35.5	3.08	5700	42.53	1.26
2500	32.67	1.65	5300	35.81	3.13	5720	41.28	1.18
			5320	37.15	3.19	5740	39.98	1.07
			5340	39.54	3.39	5760	39.64	1.03
			5360	40.75	3.42	5780	39.84	1.27
			5380	42.34	3.28	5800	39.97	1.61
			5400	42.75	3.12	5820	39.65	1.75
			5420	41.96	3.06	5840	38.7	1.53
			5440	37.99	2.58	5860	36.85	1.48
			5460	38.52	2.49	5880	37.25	1.92
			5480	39.64	2.53	5900	35.06	1.93
			5500	38.57	2.26			

3.4: Active test data/有源测试数据

Band	Channel	TRP	TIS
		11G/6M	11G/54M
2.4G	Low	5.23	-62.75
	Mid	4.56	-57.49
	High	4.17	-61.32
		11A/6M	11A/54M
5G	Low	5.73	-65.67
	Mid	5.12	-61.75
	High	6.75	-63.25

Test mode:







6. ROHS Report/ROHS报告

Product Description 产品描述		WIFI Antenna	BGS P/N 博格斯料号		HZR-112C			Declaration Date 宣告日期		2025/7/15
No. 序号	Part name 部件名称	Homogeneous Material Name 均质材料名称	cThe homogeneous material contains the value of RoHS restricted substance (ppm) 均质物料内含有RoHS限制物质的量值 (ppm)						Certification number 检测报告编号	Test date 检测日期
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	FPC	Electrolytic flexible copper-clad foil substrate 有胶柔性覆铜板	ND	ND	ND	ND	ND	ND	SHAEC24028809006	2024/12/20
2		Solder resist ink/阻焊油墨	ND	ND	ND	ND	ND	ND	ETR25501383	2025/3/20
3		3M glue/3M胶	ND	ND	ND	ND	ND	ND	SHAEC24027480901	2024/12/6
4		Gold/镀金	ND	ND	ND	ND	ND	ND	A2250164855101001E	2025/3/18

Notes:

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

说明:

材质分析展开表类似于我们公司的机种BOM, 就供应商提供的每个物料进行组成说明, 然后就每一种组成进行ROHS控制 (或者说供应商要对他的供应商进行ROHS符合性管理, 提供每三方检测证明)。

一份完整的材质分析展开表, 它包括:

- 1 材质展开表:零件组成分解
- 2 各组成的第三方验证报告