

供应商名称: 深圳市博格斯通信技术有限公司

产 品 承 认 书

Specification for Approval

客户名称

Client Name: 北京神州安付科技股份有限公司

品 牌

Brand Name: 博格斯

原厂料号

No: AFB-048C (RB 版)

物料规格&描叙

Description: AF820-Z400-H3 WIFI 三合一天线

产品制造商 (全称)

Manufacturer: 深圳市博格斯通信技术有限公司

物料类别

Part Name: AF820 WIFI 三合一天线

物料编号

Materiel No.: 123020054-11

物料描述

Description: AF820 WIFI 三合一天线, 型号: AF820-Z400-H3 BWG AFB-048C (BGS)
240529

供 应 商 签 章	客 户 签 章
	承 认: 确 认:

供应商联系地址: 深圳市高新技术产业园中区科技中一路 19 号赛百诺基因治疗园 B 栋 3 楼
308 室

供应商联系人: 袁世军

联系电话及传真: TEL: 0755-86037167

FAX: 0755-86539353



SPECIFICATION FOR APPROVAL/产品承认书

Customer Name

客户名称: 北京神州安付科技股份有限公司

Customer P/N.

客户料号: 123020054-11

Product Description

产品描述: AF820 WIFI三合一天线

BGS P/N

博格斯料号: AFB-048C (RB板)

Manufacturer

制造商: 深圳市博格斯通信技术有限公司

Approve Date

承认日期: 2025年3月6日

BGS Sign and Seal/博格斯签章	Customer Sign and Seal/客户签章

Change the content/变更内容	Version/版本	Date/日期
First Release/初版	RA	2024/6/11
Change the cutting position of the release paper 变更离型纸切割位置	RB	2024/9/25

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 .

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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/天线图片-----	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）	2400-2500； 5150-5850; 1575
Impedance/阻抗（Ω）	50
VSWR/驻波比	≤3.0
Directional/辐射方向	Omni directional
Polarization/极化方式	Linear
Gain/增益（dBi）	1575Mhz: 0.8
	2400-2500Mhz： 1
	5150-5850Mhz： 1.2
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℃
Long-term storage temperature/长期储存温度	+19℃～+23℃



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2.Antenna Picture/天线图片

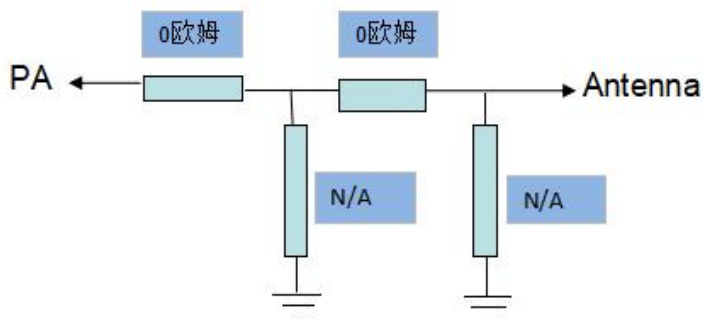
2.1: Antenna Picture/天线图片





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
		11B/1M	11B/11M
2.4G	Low	13.55	-80.26
	Mid	13.61	-80.33
	High	13.47	-80.05
		11A/6M	11A/54M
5.8G	Low	10.23	-71.33
	Mid	10.21	-71.24
	High	10.75	-72.05

GNSS测试数据

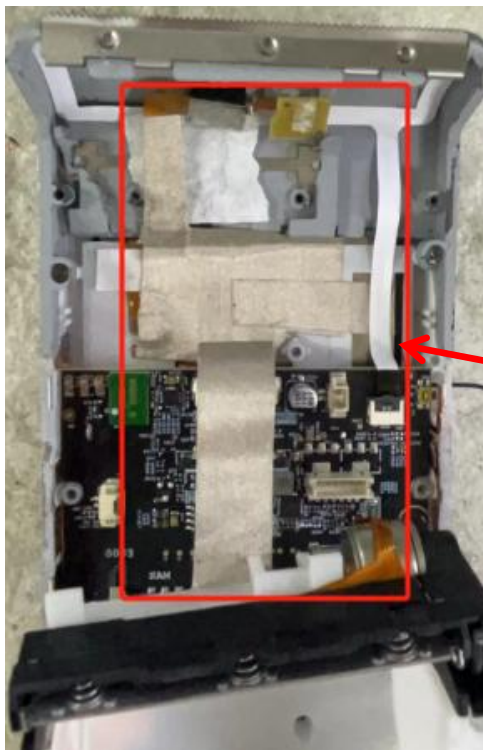




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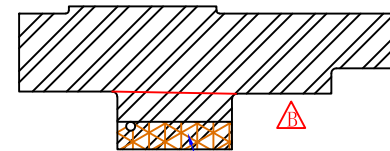
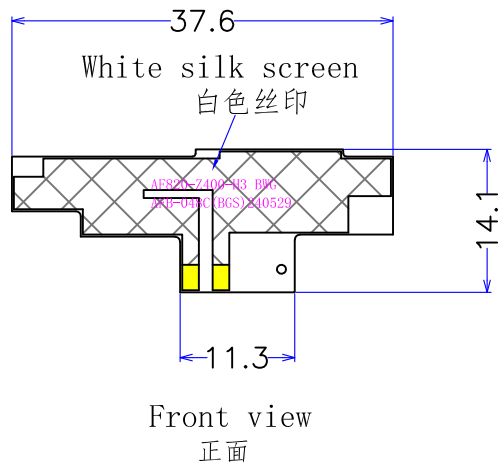
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3.3: Environmental treatment/环境处理



将打印机摄像头等排线进行屏蔽，并与屏幕接地
Shield the printer camera and other cables and ground them to the screen

- 补强部分
Reinforcing part
- 丝印部分
Screen printing part
- 镀金部分
Gold-plated part
- 空膜部分
Empty membrane part
- 线路部分
Line section
- 背胶部分
Part of gum



Requirements:

1. Material :FPC+PET, one and a half pairs of electrolytic copper, black oil printed on the surface, feed point gold-plated 0.5μ ".
2. Double-sided tape with 3M-467, the edge can not expose copper.
3. There can be no contaminants, scratches, black spots on the surface, and burrs and other phenomena on the edge.
4. Single package, 100PCS/ small package, 10 small packages and a large package.

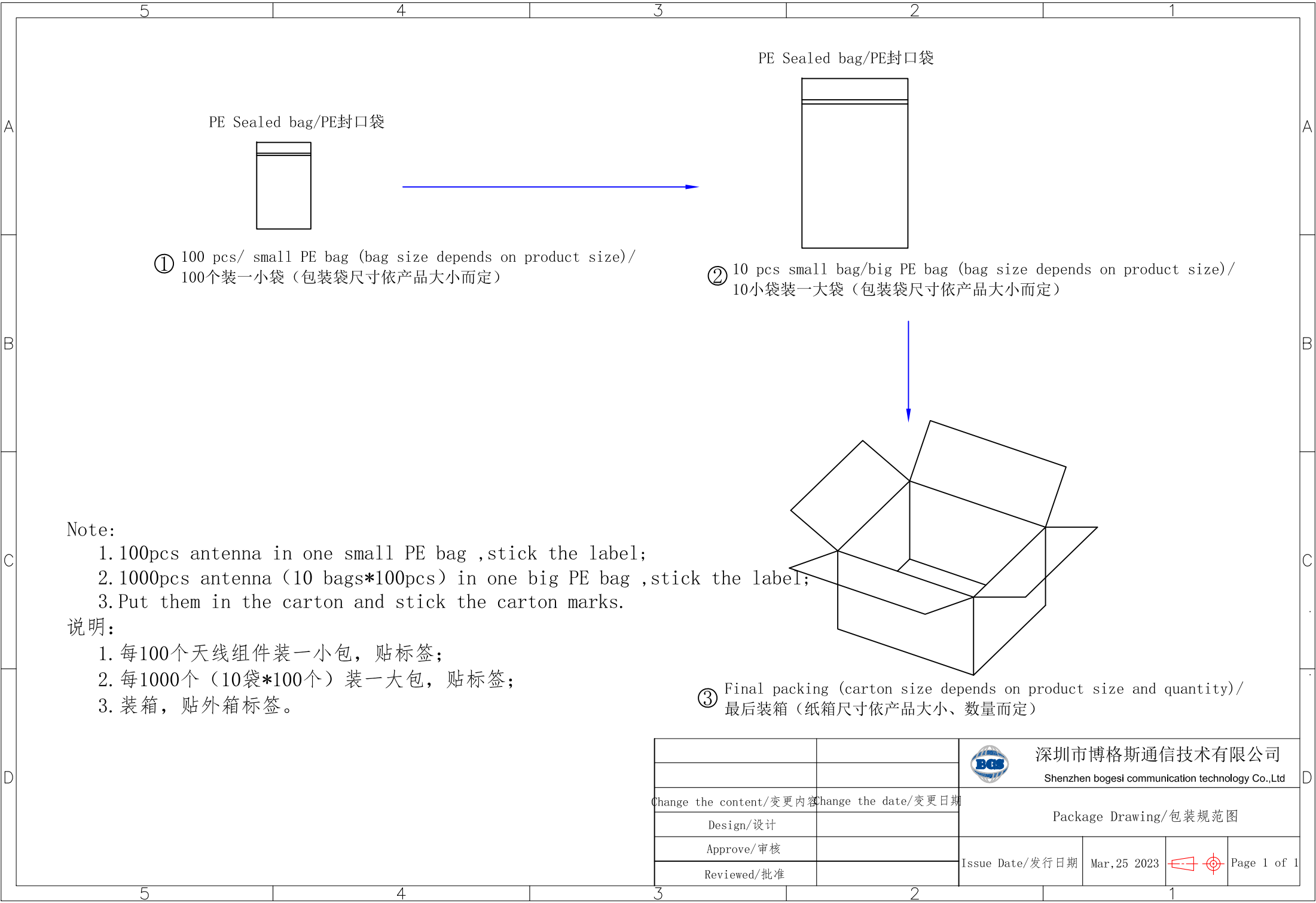
要求:

1. 材料:FPC+PET, 一对半电解铜, 表面印黑油, 馈点镀金 0.5μ "。
2. 双面胶用3M-467, 边缘不能露铜。
3. 表面不可以有污染物、擦伤、黑点, 边缘部分不能出现毛刺等现象。
4. 单个包装, 100PCS/小包, 10小包装一大包。

The backing is divided into tow sections

背胶纸分割如图

Change the cutting position of the release paper 变更离型纸切割位置	2024-9-25	深圳市博格斯通信技术有限公司 Shenzhen Bogesi Communication Ttechnology co.,ltd			
Modify content 变更内容	Modify date 变更日期	Product NO. 产品编号	AFB-048C	Material is qualitative 材质	FPC+PET
limits of tolerance; Others less than ± 0.2 公差范围 其它不超过 ± 0.2	Designer 设计	Client NO. 零件编号	\	Version of this 版本	RB
	Auditing 审核	Part name 零件名称	Antenna 天线	Item no. 项目号	AFB-048
	Approve 核准	Publish date 发行日期	Sept 25, 2024		第1页 共1页 page 1/1



① 100 pcs/ small PE bag (bag size depends on product size)/
100个装一小袋（包装袋尺寸依产品大小而定）

② 10 pcs small bag/big PE bag (bag size depends on product size)/
10小袋装一大袋（包装袋尺寸依产品大小而定）

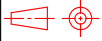
Note:

- 1.100pcs antenna in one small PE bag ,stick the label;
- 2.1000pcs antenna (10 bags*100pcs) in one big PE bag ,stick the label;
- 3.Put them in the carton and stick the carton marks.

说明:

- 1. 每100个天线组件装一小包，贴标签；
- 2. 每1000个（10袋*100个）装一大包，贴标签；
- 3. 装箱，贴外箱标签。

③ Final packing (carton size depends on product size and quantity)/
最后装箱（纸箱尺寸依产品大小、数量而定）

		 深圳市博格斯通信技术有限公司			
		Shenzhen bogesi communication technology Co.,Ltd			
Change the content/变更内容		Change the date/变更日期		Package Drawing/包装规范图	
Design/设计					
Approve/审核					
Reviewed/批准		Issue Date/发行日期		Mar,25 2023	 Page 1 of 1



6.ROHS Report/ROHS报告

Product Description 产品描述		AF820 WIFI三合一天线	BGS P/N 博格斯料号		AFB-048C			Declaration Date 宣告日期		2025/3/6
No. 序号	Part name 部件名称	Homogeneous Material Name 均质材料名称	The 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	ETR24600712	2024/6/13
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	A2240158803101001E	2024/3/20

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