

承认书

APPROVAL

产品类型 (Product Type) : PCB
Shenzhen Zhilintai Electronic Technology Co., Ltd.
客户名称 (Customer Name) : 深圳市智林泰电子科技有限公司
客户型号 (Customer Number): C8 青春版 C8 Youth Edition
客户料号 (Part Number): _____
Shenzhen BGS Communication Technology Co., Ltd.
供应商名称 (Supplier Name): 深圳市博格斯通信技术有限公司
供应商型号 (Supplier Number) : ZLS-025B
供应商料号 (Supplier Number) : _____
送样日期 (Sample Date) : 2026.05.26

供应商确认会签栏(Supplier sign):

供应商 supplier	制作 provided by	工程 engineer	品质 quality	业务 sales	批准 approval	单位 unit
	袁翠萍	郭研	周伟	袁翠萍	高良平	签章 signature

客户承认会签栏(Customer sign):

客户 customer	工程 engineer	品质 quality	结构 Structure	项目 project	批准 approval	单位 unit
						签章 signature
客户意见 Customer Feedback Questionnaires						

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SPECIFICATION FOR APPROVAL/产品承认书

Customer Name
客户名称: 深圳市智林泰电子科技有限公司
Shenzhen Zhilintai Electronic Technology Co., Ltd.

Customer P/N.
客户料号: 03.17.10.1000317

Product Description
产品描述: WIFI 2.4/5G ANT

BGS P/N
博格斯料号: ZLS-025B (RB)

Manufacturer
制造商: 深圳市博格斯通信技术有限公司
Shenzhen BGS Communication Technology Co., Ltd.

Approve Date
承认日期: 2026年5月26日/May 26th, 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
初版/first edition	RA	2026/4/16
变更弹片/Change of shrapnel	RB	2026/5/26

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 .

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.

注: 1、博格斯已经盖章的电子档或是纸质档提供给需求方后, 请需求方在下达正式订单给博格斯前,将承认书纸质档或电子档回签给博格斯, 如没有正式的变更或是更改通知, 则博格斯默认为需求方认可并接受规格书所述产品。

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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）	2400-2500； 5150-5850
Impedance/阻抗（Ω）	50
VSWR/驻波比	≤3
Directional/辐射方向	Omni directional
Polarization/极化方式	Linear
Peak Gain/峰值增益（dBi）	2400-2500： -1.11
	5150-5250： -1.21； 5470-5850： -0.89

1.2: Mechanical Specification/机械指标

Material/材质	PCB
RF Cable Type/射频线型号	RF0.81
Connector Type/连接器类型	四代端子

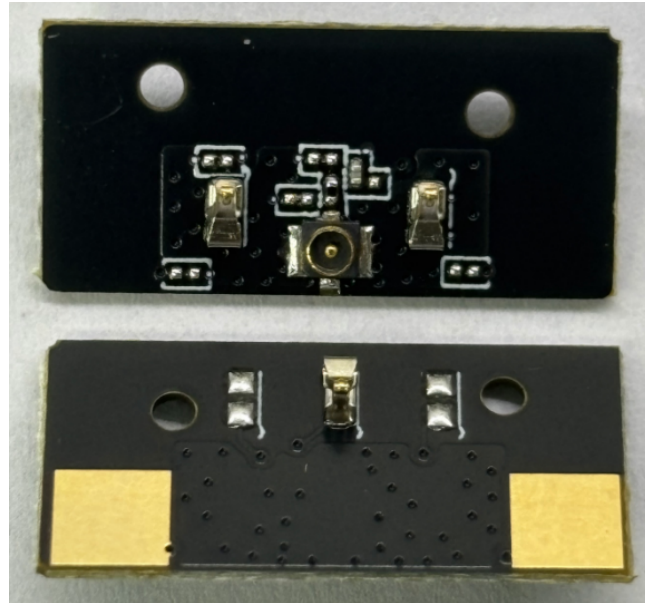
1.3: Environmental Specification/环境指标

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

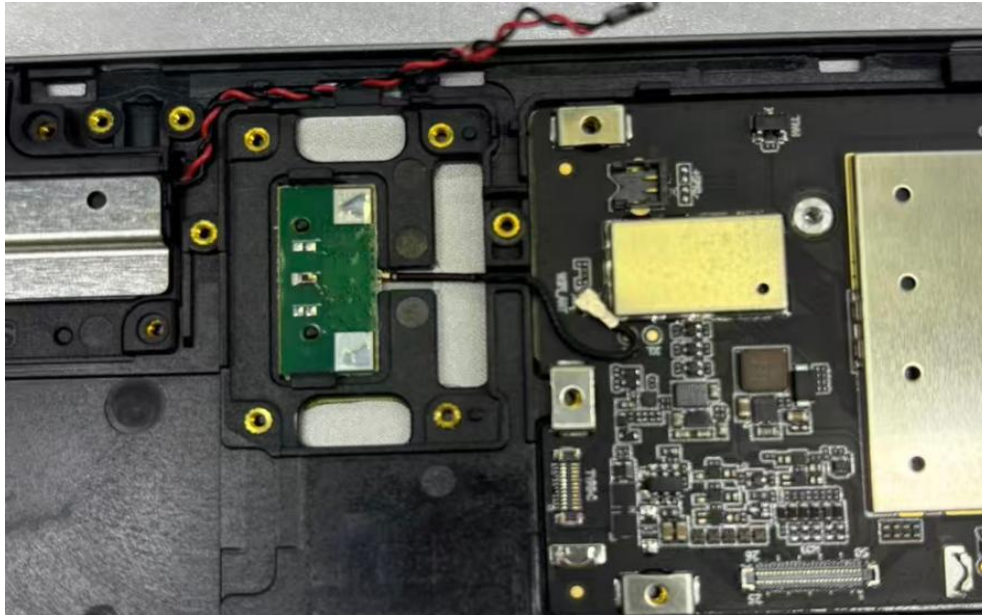


2.Antenna Picture/天线图片

2.1: Antenna Picture/天线图片



2.2: Installation Instructions/安装说明



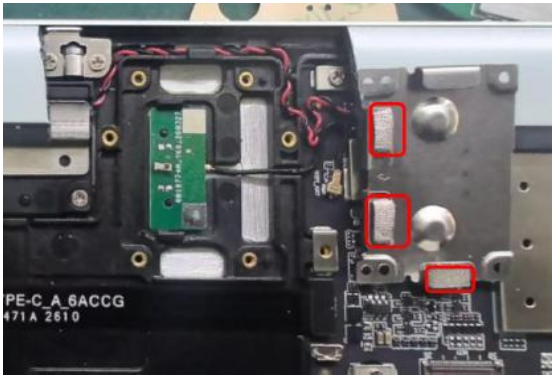


3.Test Report/测试报告

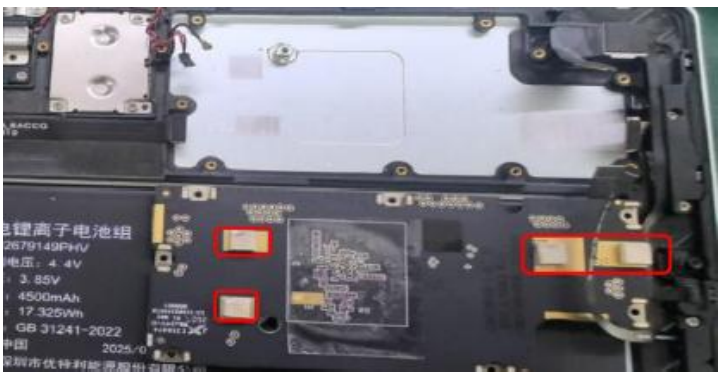
3.1: Active test data/有源测试数据

Band	Channel	换弹片 Replace the cartridge case	
		TRP	TIS
11B 11M	Low	10.06	-78.05
	Mid	10.24	-78.37
	High	10.17	-78.41
11G 54M	Low	10.38	-65.84
	Mid	9.48	-65.47
	High	9.37	-65.38
11N (2.4G) MCS7	Low	7.38	-61.35
	Mid	7.16	-61.42
	High	7.72	-61.2
11A 54M	Low	10.2	-65.34
	Mid	10.43	-66.17
	High	10.31	-65.42

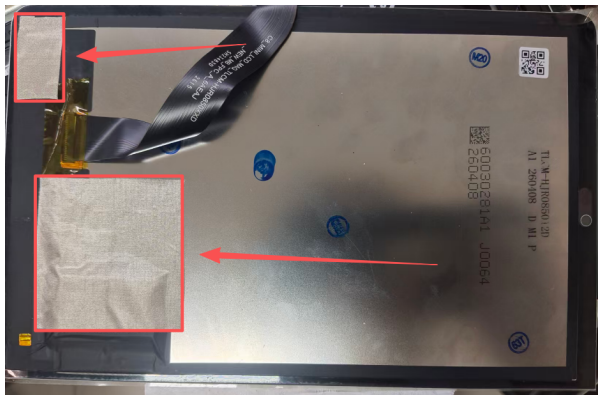
3.2: Environmental treatment/环境处理（共4处环境处理）



1、谐振腔接地（如图红框3处）/Resonant cavity grounding (as shown in the red box 3 of the figure)



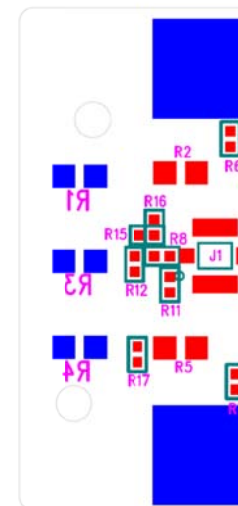
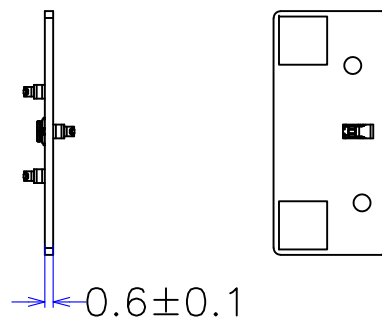
2、主板接地（如图红框4处）/Mainboard grounding (as shown in the red box 4 in the figure)



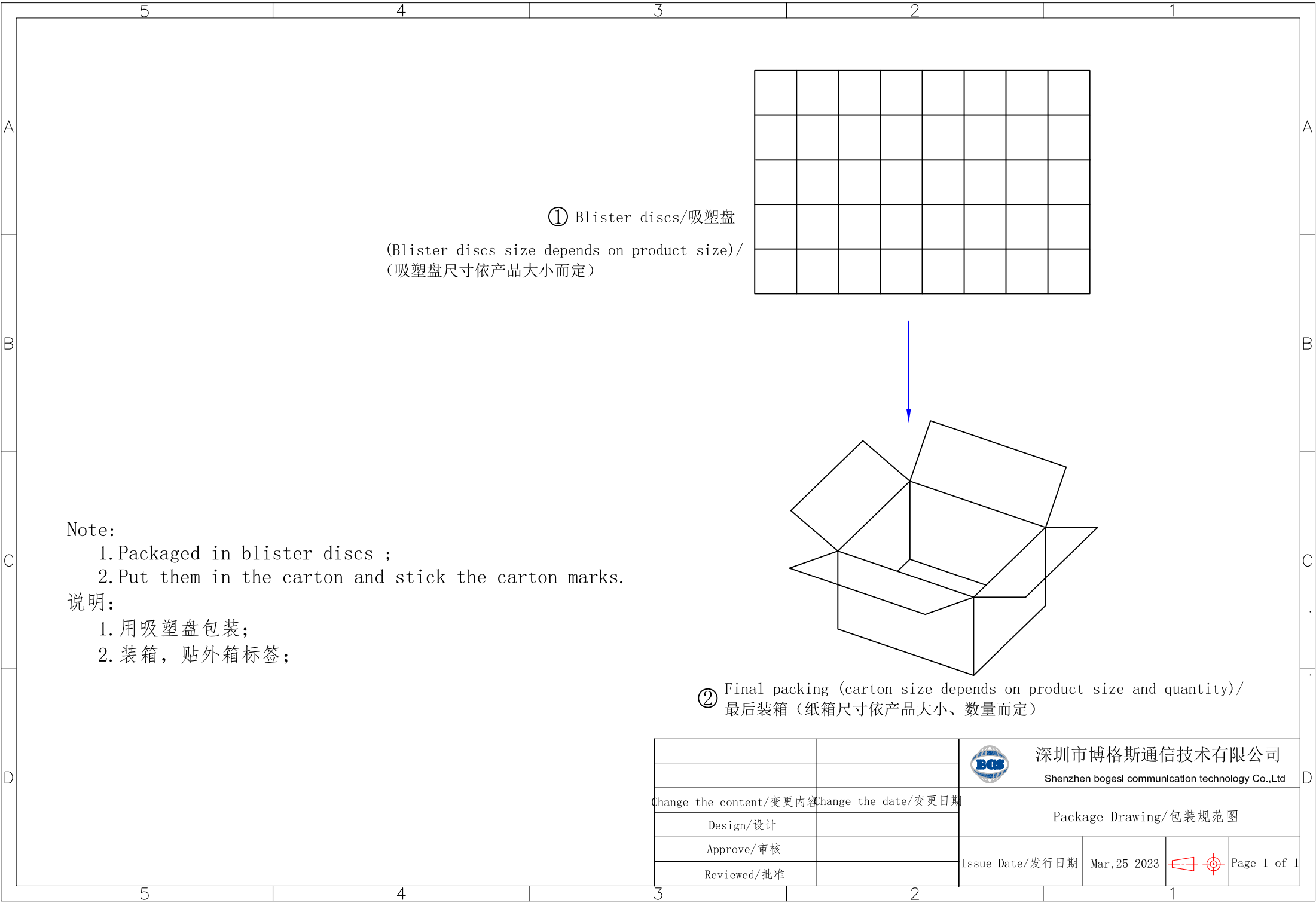
3、屏边包导电布2处/ Two areas of screen-printed conductive fabric



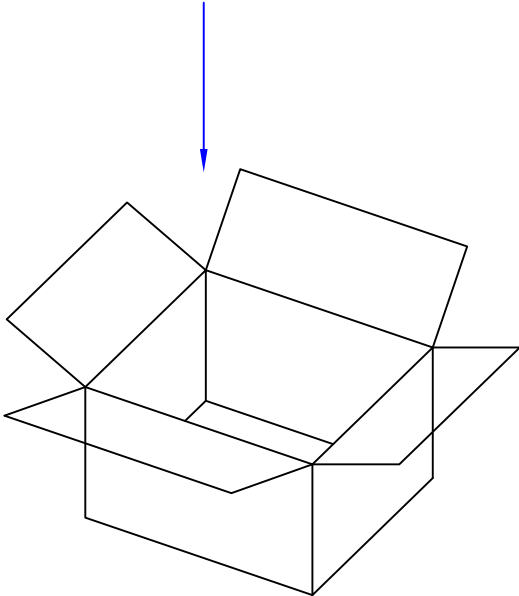
4、导电泡棉/海绵三处接地/Electrical conductive foam/sponge grounded at three points



					Replace the shrapnel 	2026-5-26		 Shenzhen Bogesi Communication Ttechnology co.,ltd			
⑤	CFP410B12	RF Seat	HDC-IV board end mount	1							
④	X18EX	shrapnel	L2.0*W1.00*H1.8 	3	Modify content	Modify date		Product NO.	ZLS-025B	Material is qualitative	FPC/Cable
③	92.01.3008	capacitance	5.6pF±5% C0201	1							
②	90.01.1001	resistance	0 Ω ± 1% 0201	1	limits of tolerance; Others less than ±0.2	Designer		Client NO.	\	Version of this	RB
①	ZLS-025B-05A	PCB	17.7*8.4mm, Board thickness 0.6mm, double-layer black gold-plated	1		Auditing		Part name	Antenna	Item no.	ZLS-025
NO.	PART NO.	NAME	DESCRIPTION	QT 'Y	Approve		Publish date	2026-6-23			page 1/1



① Blister discs/吸塑盘
(Blister discs size depends on product size)/
(吸塑盘尺寸依产品大小而定)



- Note:
- 1.Packaged in blister discs ;
 - 2.Put them in the carton and stick the carton marks.
- 说明:
- 1.用吸塑盘包装;
 - 2.装箱,贴外箱标签;

② 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		WIFI 2.4/5G ANT	BGS P/N 博格斯料号		ZLS-025B			Declaration Date 宣告日期		2026/5/26
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	PCB	FR4	ND	12	ND	ND	ND	ND	SHAEC24022792308	2024/10/15
2		Solder resist ink/阻焊油墨	ND	ND	ND	ND	ND	ND	A2240398136102002E	2024/7/11
3		Curing symbol ink/文字油墨	ND	ND	ND	ND	ND	ND	A2240627113101003E	2024/10/17

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

无源测试数据：

Freq (MHz)	Effi (%)	Gain (dBi)
2400	25.65	-2.88
2410	26.02	-2.47
2420	25.94	-2.42
2430	25.65	-1.96
2440	24.7	-1.71
2450	24.72	-1.22
2460	23.55	-1.28
2470	24.32	-1.31
2480	23.98	-1.11
2490	24.16	-1.13
2500	24.61	-0.96
5100	18.96	-2.29
5120	18.66	-2.4
5140	19.52	-1.98
5160	19.44	-1.91
5180	18.16	-1.56
5200	20.6	-1.31
5220	20.86	-1.37
5240	21.92	-1.21
5260	19.55	-1.35
5280	19.3	-1.55
5300	19.85	-1.17
5320	21.64	-0.7
5340	22.25	-0.65
5360	23.87	-0.19
5380	23.56	0.02
5400	22.51	-0.06
5420	23.03	0.13
5440	20.33	-0.2
5460	20.36	0.02
5480	20.56	0.32
5500	19.69	0.12
5520	21.29	0.8
5540	20.06	0.65
5560	21.65	0.36
5580	20.72	-0.04
5600	22.21	0.19
5620	20.17	-0.6
5640	21.37	-0.56
5660	22.16	-0.8
5680	19.91	-1.8
5700	20.28	-2
5720	20.31	-2.07
5740	18.98	-2.01

无源测试数据:

Freq (MHz)	Effi (%)	Gain (dBi)
5760	19.37	-1.54
5780	18.53	-1.61
5800	19	-1.14
5820	19.25	-0.95
5840	18.66	-0.89
5860	18.85	-1.28
5880	19.32	-0.95
5900	19.04	-1.28

