



重庆舟海智能科技股份有限公司

Chongqing Zhouhai Intelligent Technology Co., Ltd

样品承认书

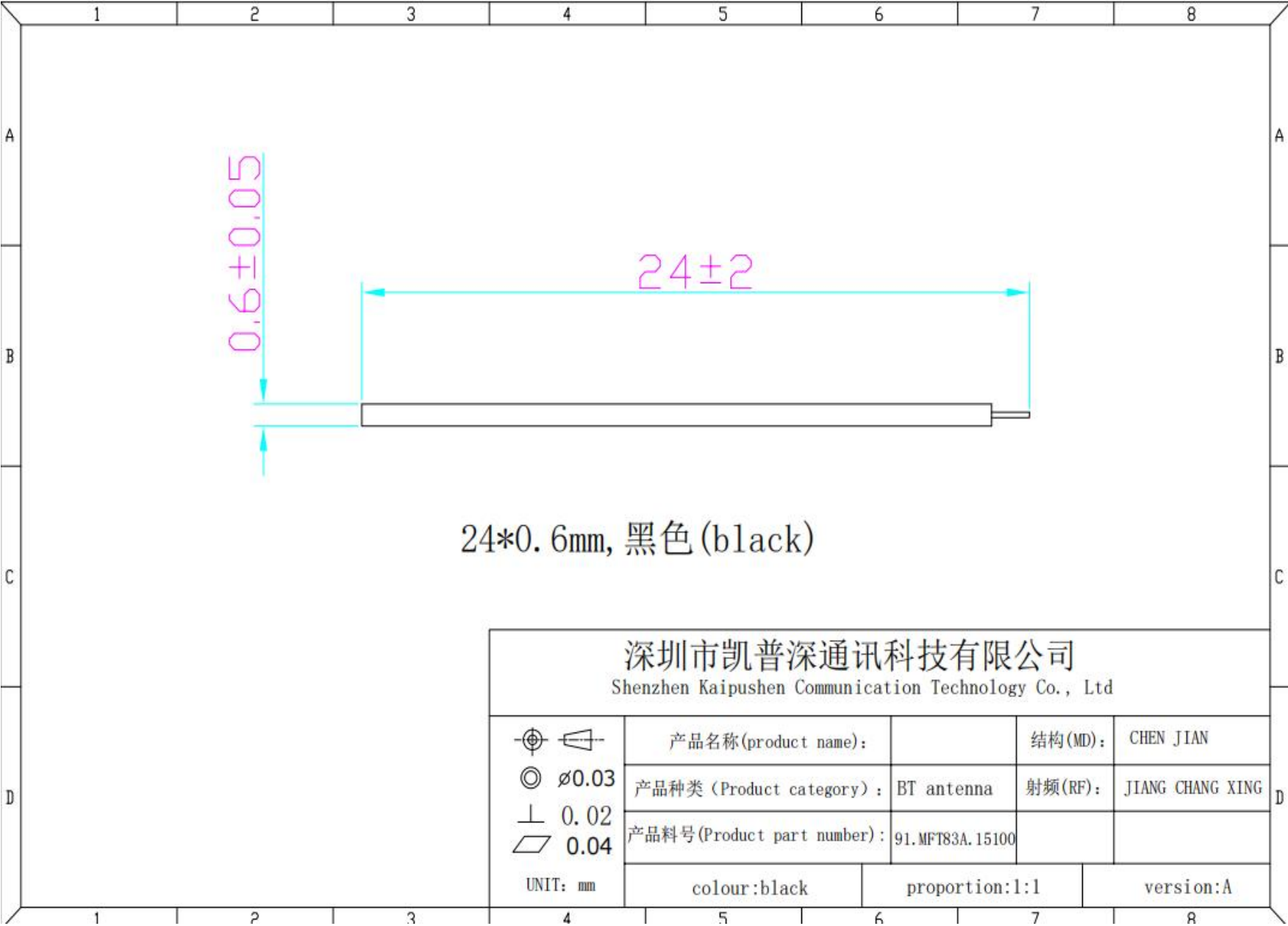
舟海料号 Zhouhai part number	012.010024-00	供应商名称 SUPPLIER	深圳市凯普深通讯科技有限公司 Shenzhen Kaipushen Communication Technology Co., Ltd		
物料名称 Name	蓝牙导线 Bluetooth wire	版 本 Version	送样日期: Sample delivery date:		
型号规格 Model specifications	0.6*24MM	认定原因 Reason for identification	☐ 首次封样First sample sealing ☐ 升级改善 Upgrade and improve		
提 供 材 料 Provide Materials	☒ 1. 标准样品实物 Standard sample physical object				
	☒ 2. 产品图纸及规格书 Product drawings and specifications				
	☒ 3. 全尺寸测量结果报告 (全尺寸报告、FAI报告、关键尺寸CPK (依不同模号、穴号测量) Full size measurement result report (Full size report FAI report, critical dimension CPK (measured according to different mold and hole numbers))				
	☒ 4. QC工程图、检验SIP QC engineering drawings, inspection SIP				
	☒ 5. RoHS符合性保证书及第三方测试报告 RoHS conformity assurance certificate and third-party testing report				
	☒ 6. 物料材质证明、材料成分表 Material certification and material composition table				
	☒ 7. 产品或物料可靠性、电性能测试报告 Product or material reliability and electrical performance test report				
	☒ 8. 产品或物料出货包装规范 Product or material shipping packaging specifications				
供应商会签 Supplier signature					
制定 formulate	工程 engineering	品质 qualit	项目 project	批准 ratify	盖章 Stamp
客户会签 Customer signature					
认定项 Identification items	检验结果及意见 Inspection results and opinions				
批准意见 Approval opinions	临时样品Temporary samples: ☐ 限量使用(数量)Limited usage (quantity) _____ ☐ 不予采用 Not to be				
	正式样品Formal sample: ☐ 批量使用Batch use ☐ 限量使用(数量)Limited usage (quantity) _____ ☐ 不予采用Not to be				
	限量或不予使用理由Reasons for limited or no use:				
职能部门 会 签	研发工程师 R & D Engineer	签字sign:	产品经理 Product Manager	签字sign:	
	品质工程师 QUALITY ENGINEER	签字sign:	项目经理 project manager	签字sign:	
样品分发 部门Sample distribution	份triplicate: ☐ 公司存档Company Archive ☐ 供应商 supplier ☐ IQC/品质部IQC/Quality Dept				
备注notes					

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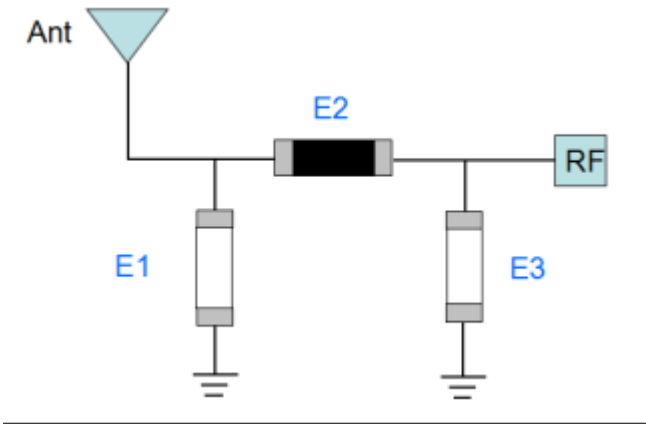
3. ICD图纸 ICD Drawing



制造商信息
 Manufacturer Information

深圳市凯普深通讯科技有限公司
 Shenzhen Kaipushen Communication Technology Co., Ltd

深圳市龙华区大浪街道龙观大道440号龙城工业区御龙办公楼二楼
 2nd Floor, Yulong Office Building, Longcheng Industrial Zone, No. 440
 Longguan Avenue, Dalang Street, Longhua District, Shenzhen



BT matching	
Element	Value
E1 (0201)	N/A
E2 (0201)	0 Ω
E3 (0201)	N/A

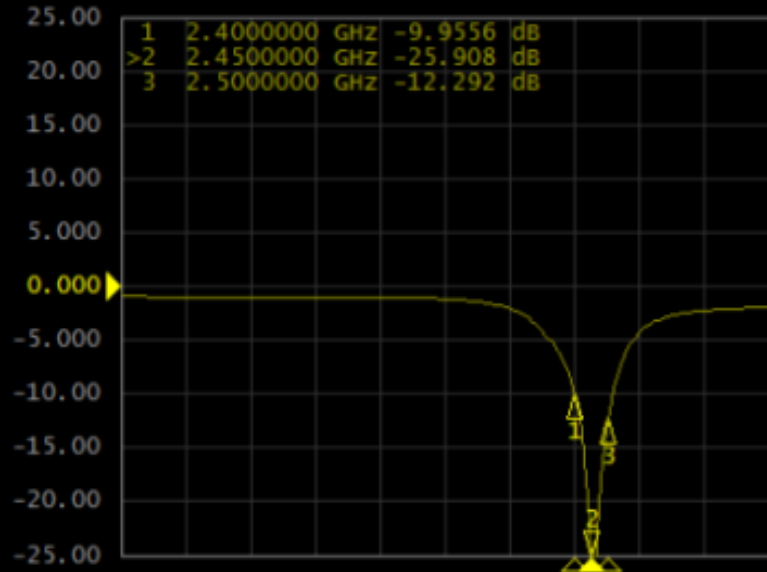
Passive efficiency - Free			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	21.34	-6.71	-2.95
2410	21.62	-6.65	-2.86
2420	22.79	-6.42	-2.49
2430	23.89	-6.22	-2.17
2440	25.46	-5.94	-1.8
2450	25.35	-5.96	-1.74
2460	24.23	-6.16	-1.84
2470	21.8	-6.62	-2.17
2480	21.1	-6.76	-2.27
2490	21.31	-6.71	-2.06
2500	21.74	-6.61	-1.92

Passive parameter

E5071C Network Analyzer

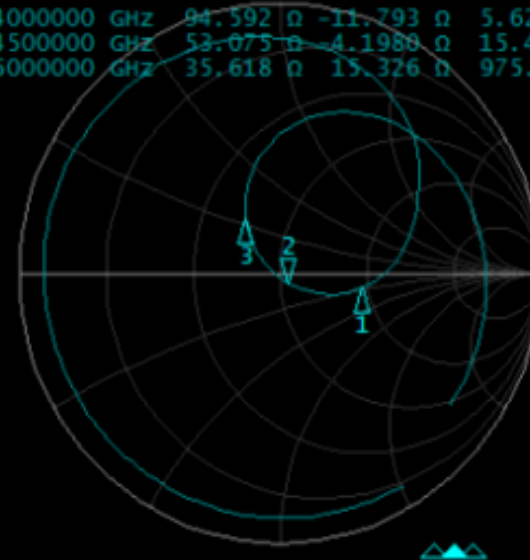
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S22 Log Mag 5.000dB/ Ref 0.000dB [F1 M]

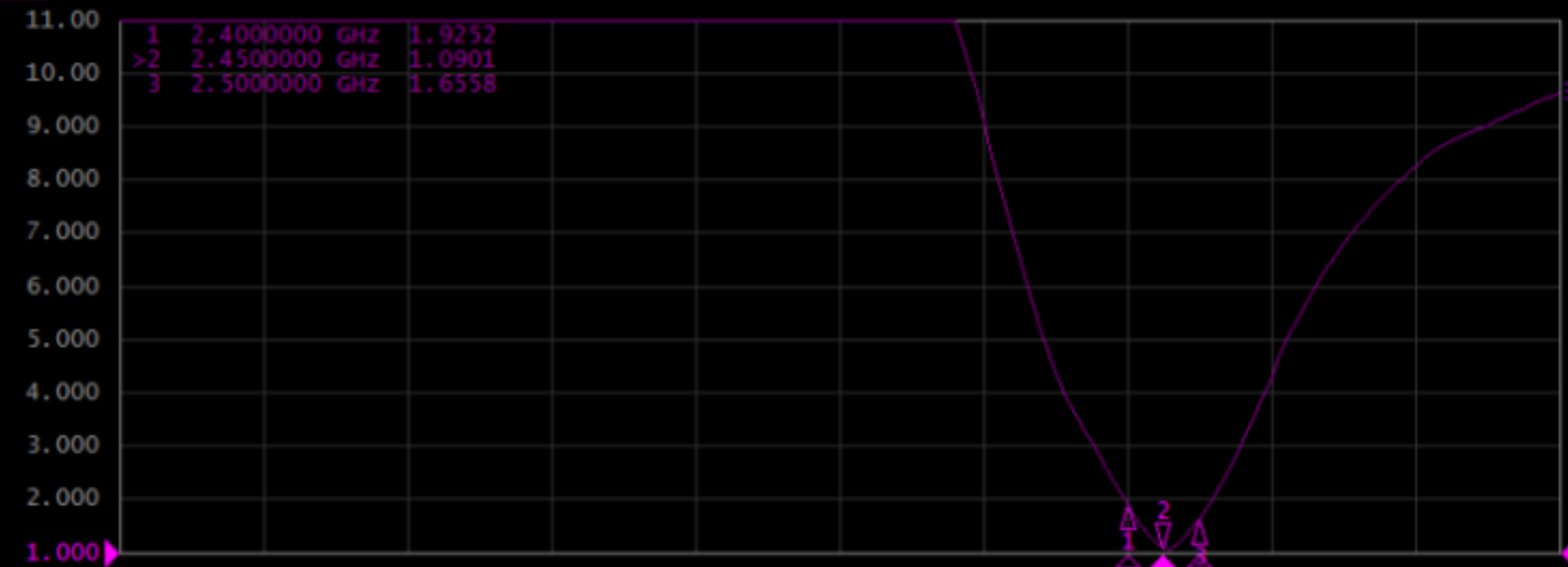


Tr2 S22 Smith (R+jX) Scale 1.000u [F1 M]

1	2.4000000	GHz	94.592	Ω	-11.793	Ω	5.6231	pF
>2	2.4500000	GHz	53.075	Ω	-4.1988	Ω	15.474	pF
3	2.5000000	GHz	35.618	Ω	15.326	Ω	975.68	pH



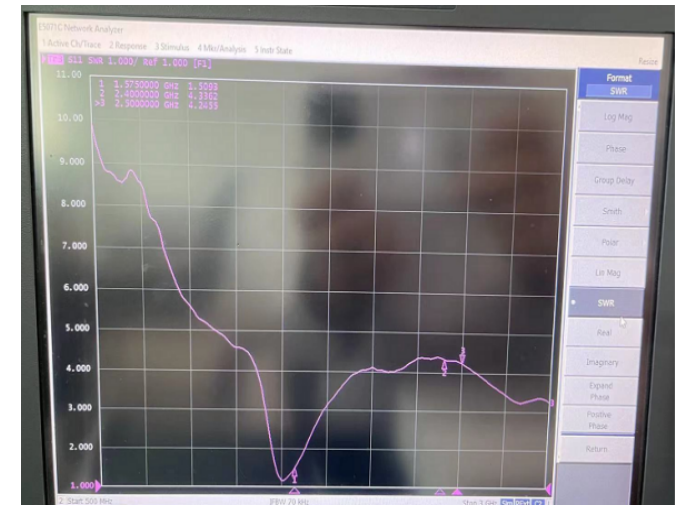
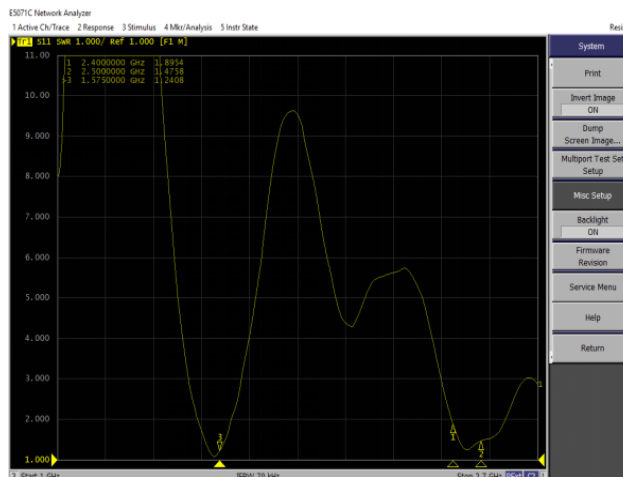
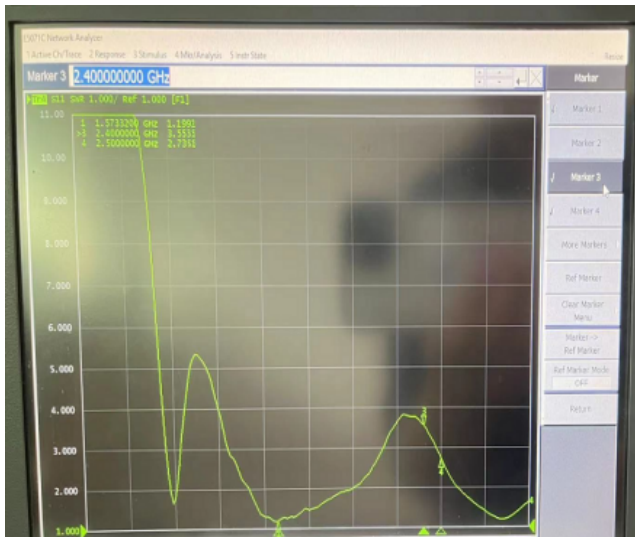
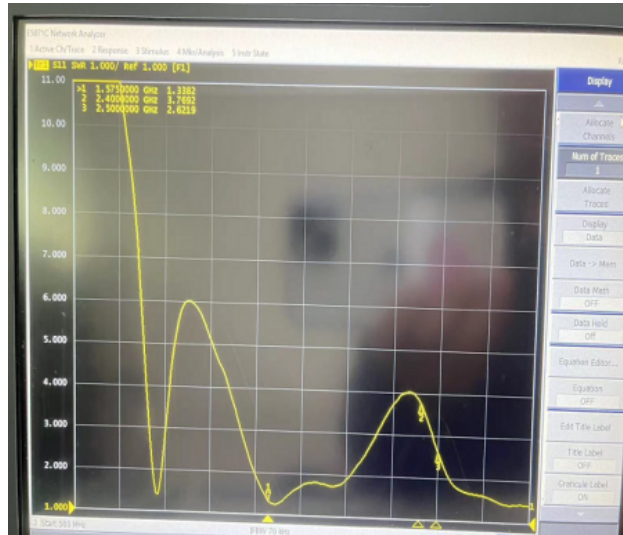
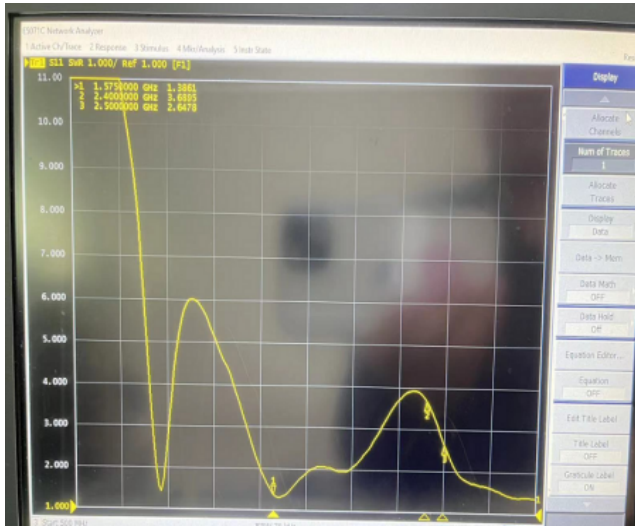
Tr3 S22 SWR 1.000/ Ref 1.000 [F1 M]



1 Start 1 GHz

IFBW 70 kHz

Stop 3 GHz PExt C?



全尺寸测量报告 Full dimensional measurement report

	客户 Customer	舟海Zhouhai		项目名称 Item name		蓝牙天线 Bluetooth antenna		规格 Specifications		黑色 black			材料 Material	
	供应商 Supplier	凯普深		测量工具 Measure tools		二次元 Quadratic		测量单位 Measure unit		mm			测量日期 Measure date	2023/12/28
NO.	尺寸 (DIMENSION)	尺寸 尺寸	+ TOL.	- TOL.	尺寸 尺寸	实测 1	实测 2	实测 3	实测 4	实测 5	实测 6	实测 7	UPPER≤100%	LOWER≤100%
1	25.00	27.00	2.00	2.00	23.00	25.40	24.60	24.80	24.90	25.20	25.30	25.20	20%	20%
2	0.60	0.65	0.05	0.05	0.55	0.58	0.61	0.59	0.59	0.61	0.58	0.58	20%	40%
3														
4														
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10														
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14														
15														

tabulation:陈健 Jian Chen

To examine审核: XingTuoWU巫星拖

 深圳市凯普深通讯科技有限公司 天线专家 Shenzhen cape deep communication technology co., LTD			QC schedule drawing			file number KPS--QPA-QA004		Enactment Date				
						file version A/01		Page		page 1		
technological process			Control focus		management responsibility	method		Inspection method			corrective action	
Order Number	Main Processes	project name	aControl Project	Regulatory standards	person liable	Normal sampling number	person in charge	Inspection method	Examines the tool	Record type	Solution	
		begin										
1		Receiving	quantity/product name/specifications	《Engineering BOM》 《Material receiving operation instruction》	Material clerk					《Electronic account》	Contact the supplier and issue 《returning note》	
2		Incoming inspection	specifications/model/pack	《Engineering BOM》 《Sampling inspection plan》 《IQC incoming material inspection instruction》	IQC	MA=0.25 MI=0.65	IQC	1.visual 2.Machine test 3.sample	Two dimensional vernier caliper	《IQC incoming inspection record》	Inspection: OK, stamped with pass seal. The inspection shall be labeled as nonconforming product and issued at the same time 《8D Report Problem Solving Report》, Notify the supplier of return and improve.	
3		material	quantity/product name/specifications	《 production instruction》 《Material receiving operation instruction》	Material clerk					《Material requisition and distribution		
4		pack	pack quantity/indicate	《Finished product packaging operation instruction》	packager							
5		Delivery inspection	product appearance bad record Dimensional test Bad sign Good product packaging ROHS compliance	《Engineering BOM》 《Sampling inspection plan》 《OQC Final inspection operation instruction》	OQC	MA=0.25 MI=0.65	OQC	1.visual 2.Machine test 3. sample	Two dimensional vernier caliper	《OQC finished product inspection record》	If the number of times of the same type of the same type missing in the daily inspection is greates, OQC issues the 8D report problem solving report to the production manager for analysis and improve	
6		delivery	product namespecification quantity delivery note	《Finished product shipping operation instruction》	Material clerk					《Electronic account》		
		finish										
character	Revision date	Revised content				Revised ; Revised	Acknowledged by	Fiction		auditing	approval	
①												
②												
③								date		date	date	

盐雾测试报告

Salt spray test report

日期Date: 2023 年 12月 28日			
product name	蓝牙天线 Bluetooth antenna	客户名称 Customer	舟海
供应商Supplier	深圳市凯普深通讯科技有限公司 Shenzhen Kaipushen Communication Technology Co., Ltd	国家测试标准 National Test standard	GB/T 2423.2-2008
试样情况 Sample situation	试样数量Sample qty: 5PCS		
	导线wire		
试验起止时间 Test start and end time	2023年12月28日 9时 00 分至 2023 年12月29日 9时 00 分 共计 24 H (Total 24H)		
试验类型: Test type	☒ NSS	☐ ASS	☐ CASS
试验条件 Test condition	盐溶液Salt solution: 5%		PH:7.0
	箱内温度Chamber temp: 35° C		相对湿度Relative humidity: 85%
	喷雾方式Spray way: ☒ 连续Continuous ☐ 间歇intermittent		压缩空气压力Compressed air pressure: 1kg/cm²
	盐雾沉降率Salt spray sedimentation rate: 1-2ml/80cm2/h		雾液收集Fog fluid collection: 1.4ml/80cm2/h
	试验周期Test cycle: __1__个循环cycle		喷雾时间Spray time: 24h
试验结果 Test results	试验后的外观: 外观完整无损, 无明显变化。 Appearance after test:appearance intact, without obvious change		
	镀层: 无剥落、无锈蚀 Coating: no spalling, no rust		
	表面喷涂、丝印: 无脱落、无气泡。. Surface spraying, silk screen: no falling off, no bubbles.		
说明Explanation: 1、盐雾试验作业标准依照中华人民共和国国家标准GB/T2423.17-2008执行 1、 Salt spray test operating standards in accordance with the People's Republic of China national standard GB/T2423.17-2008 implementation。 2、试件结果判定标准依照中华人民共和国国家标准GB/T6461-02执行 2、 The test piece results are determined according to the national standard GB/ T6451-02 of the People's Republic of China。			
试验员/日期Operator by/date: 陈健Jian Chen 审核/日期Approved by/date: 巫星托XingtuoWU			

包装方式（Packing）

客户名称: Customer:	舟海Zhouhai	物料名称: Material name	蓝牙天线 Bluetooth antenna
包装数量: packing qty	1箱 one carton	包装材料: Packing material	纸箱Carton
装箱数量: Qty/carton		包装方式: Packing way	封口袋包装 Ziplock bag (贴合组装用吸塑盘单个包装Single packaging of blister discs for adhesive assembly)



图1：单件包装

Picture 1:Single package



图2：装箱包装方式

Picture 2: Packing way



图3：包装箱视图（正面、侧面、顶部）

Picture 3: Packing view (front, side, top)



图4：外箱标签

Picture 4:packing label

notes: If the antenna needs to be attached for processing, it should be packaged and shipped according to.