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承 认 书

Antenna SPEC

客户名称 Customer name: 玥芯通

调试项目 Customer project: X98Q

客户料号 Customer P/N:

博安通料号 B&T P/N: 79300006

规格描述 Spec.: 内置天线-2.4 / 5G-弹片-L26.7×W4×H10.2×
T0.4mm

Spec.: Built-in antenna-2.4/5G-shrapnel-L26.7 × W4 × H10.2 ×
T0.4mm

出厂签章 Sealed by corporation:

编写 compilation	审核 verify	批准 approval
邱翠萍 Qiucui ping	胡冲 Huchong	刘立华 Liulihua

客户承认签章 Sealed by customer:

检查 check	审核 verify	批准 approval

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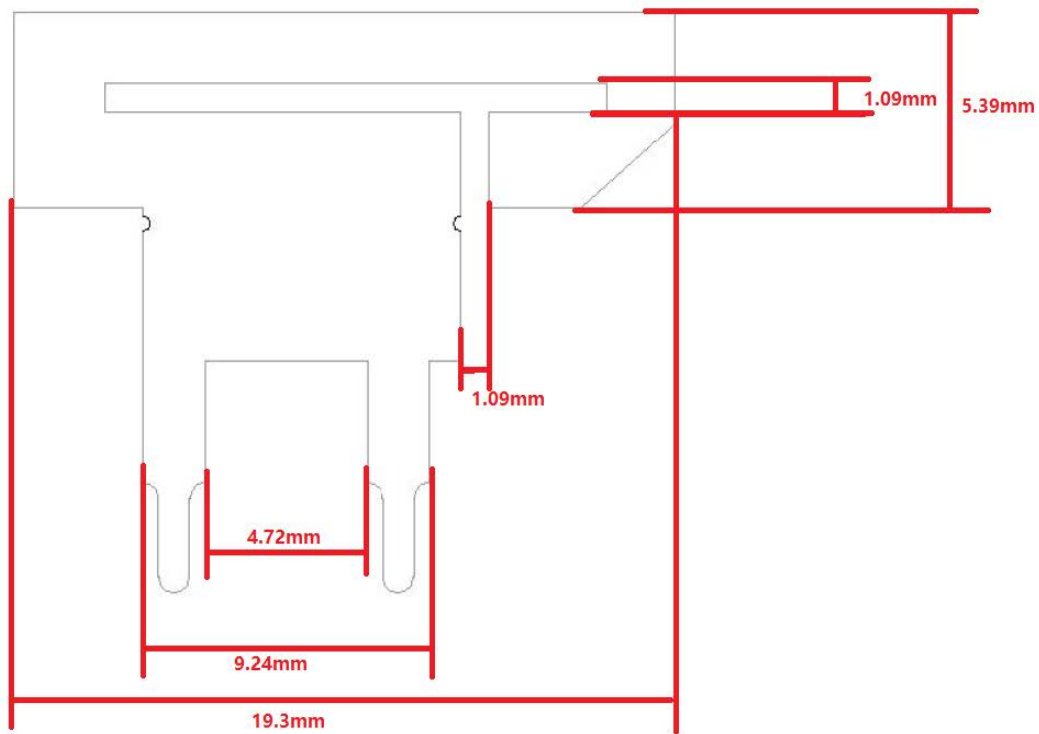
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3、产品图面 Product drawing

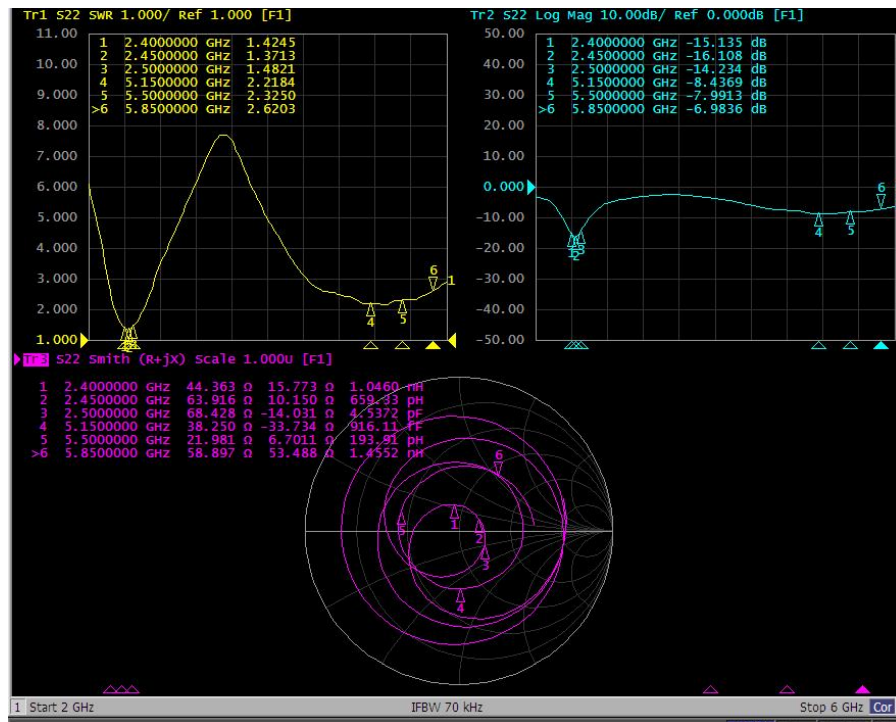


4、性能参数 Properties ¶meter

电气参数 Electrical parameter	
频率范围 Freq Range	2400~2500MHz/5150~5850MHz
输入阻抗 Characteristic Impedance	50 Ω
驻波比 VSWR	对照工程封样 Check the engineering seal
功率容量 The Max input power	<10w
极化方式 Polarization mode	线极化 Linear polarization
辐射方向 Radiation direction	全向 omnidirectional
机械参数 Mechanical parameter	
总长 total length	26.7±0.2mm
盐雾测试 Salt spray test	24H
环境参数 Environment parameter	
工作温度 Operating Temp	-30℃~65℃

5、电气性能测试报告 Electrical test report(整机测试 Whole machine testing)

天线 S11 参数图 Antenna S11 parameter diagram



驻波比数据 Standing wave ratio data

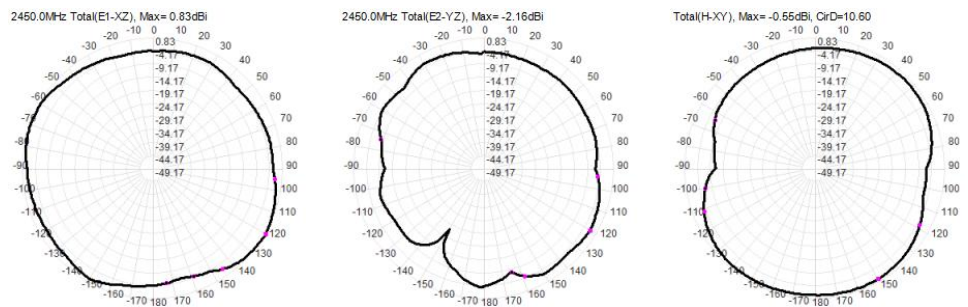
Freq/MHz	2400	2450	2500	5150	5500	5850
VSWR	1.42	1.37	1.48	2.21	2.32	2.62

天线暗室测试数据 Antenna darkroom test data

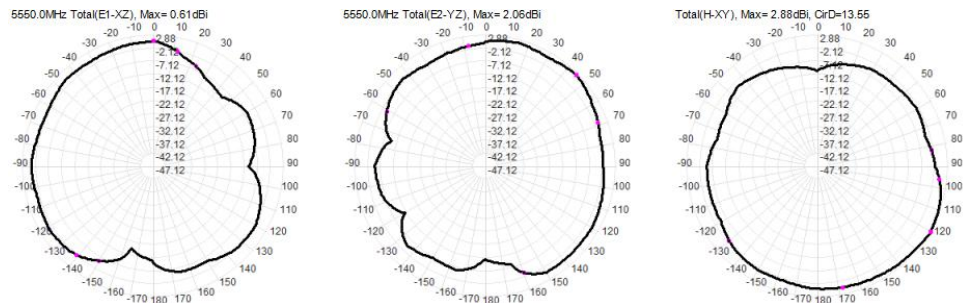
Frequency (MHz)	WiFi	
	Gain (dBi)	Efficiency (%)
2400	2.39	53.40
2410	2.28	52.55
2420	2.29	52.96
2430	2.02	52.95
2440	1.99	52.47
2450	0.83	56.07
2460	2.39	58.29
2470	2.58	60.46
2480	2.63	61.57
2490	2.44	59.68
2500	2.28	59.15
5150	1.93	49.31
5250	1.80	56.33
5350	2.30	52.78
5450	2.75	52.63
5550	2.88	54.98
5650	2.25	53.17
5750	3.49	52.36
5850	2.68	50.02

➤ 天线方向图 Antenna direction diagram

2450MHz



5550MHz



6、材料成分及有害物质表 List of Material Composition and Hazardous Substances

项次 Item	规格 Specification	材质 Texture of material	RoHS 检验结果 (PPM) ROHS Test Results (PPM)						ICP 检测编号 ICP test number	检测时间 Test time
			Cd	Pb	Hg	Cr+6	PBB	PBDE		
1	弹片 Leaf spring	SUS304	ND	ND	ND	ND	ND	ND	SZXEC23003114209	2023/12/15
		镀镍 Nickel plating	ND	43	ND	ND	ND	ND	SZXEC23001959703	2023/8/23

产品包装规范

PACKING CRITERION

产品料号 P/N: 79300006

产品规格: 内置天线-2.4 / 5G-弹片-L26.7×W4×H10.2×T0.4mm

Spec: Built-in antenna-2.4/5G-shrapnel-L26.7×W4×H10.2×T0.4mm

一、标签要求（根据客户名称参考对应的成品标签制作要求，无要求即按普通标签要求）
contents of label(according to the customer's name, refer to the corresponding finished product label production requirements. If there is no requirement, it will follow the ordinary label requirements.)

内外标签 长 10cm 宽 6cm 左右

The inner and outer labels are about 10cm long and 6cm wide

需方 buyer	*****		
供方 vender	中山市博安通通信技术有限公司 Zhongshan B&T Communication Technology Co., Ltd 四川博安通通信技术有限公司 Sichuan B&T Technology Co., Ltd.		
物料编码 Purchase No	*****		
生产单号 Material No.	*****		
品名规格 Name specification	*****	检验员 QC	**
数量/单位 Q' ty/Unit	*****	日期 Manufacture date	*****
追溯码 Trace code	*****	流水号 Serial number	**

二、装箱要求 Packing requirement

作业说明 Operating description:

1. 内包装 inner packing:

吸塑托盘包装 Blister tray packaging

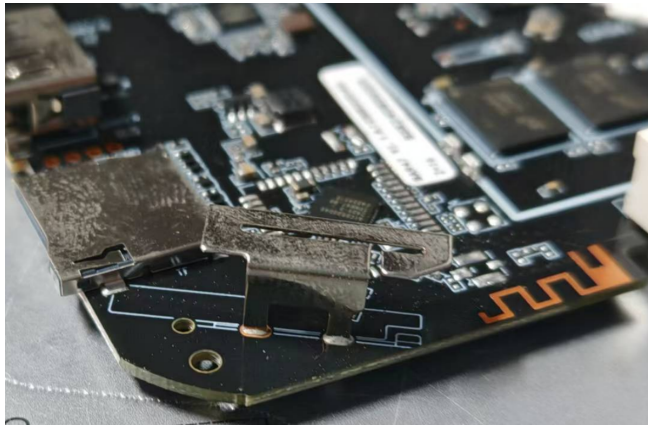
2. 外包装 outer packing:

根据实际包装定数量 Quantity according to actual packing/箱 carton

注意事项 Notice:

1. 是否要增设隔板、珍珠棉 Whether to add partitions, pearl cotton;
2. 标签的贴附，如 ROHS 等 Labeling, such as ROHS;

8、天线整机安装示意图 Antenna installation position Diagram



9、可靠性测试要求 Reliability test requirements

序号 No.	可靠性试验名称 Reliability Test Name	试验条件 Test Conditions	判定标准 Evaluation Criteria
1	恒温恒湿试验 Constant Temperature and Humidity Test	高温:70°C, 湿度:80%RH 24H; 低温 -40°C 24H; 共持续 48H; High temperature: 70° C, Humidity: 80%RH for 24 hours; Low temperature: -40° C for 24 hours; Total duration 48 hours;	试验前后外观要求: 金属表面镀层应无剥落, 裂痕起皱, 分离等。非金属部分不应变色, 发生开裂, 变形, 脱胶等不良; 电气性能测试符合标准要求; Before and after the test, the appearance requirements: The metal surface plating should have no peeling, cracks, wrinkling, separation, etc. Non-metal parts should not change color, have cracks, deformation, glue detachment, and other defects; Electrical performance tests should meet the standard requirements;
2	高低温冷热冲击试验 High and Low Temperature Shock Test	70°C持续 2H, -40°C持续 2H, 6 次循环, 共 24 小时; 70° C for 2 hours, -40° C for 2 hours, 6 cycles, total 24 hours;	试验前后外观要求: 金属表面镀层应无剥落, 裂痕起皱, 分离等。非金属部分不应变色, 发生开裂, 变形, 脱胶等不良; 电气性能测试符合标准要求; Before and after the test, the appearance requirements: The metal surface plating should have no peeling, cracks, wrinkling, separation, etc. Non-metal parts should not change color, have cracks, deformation, glue detachment, and other defects; Electrical performance tests should meet the standard requirements;

3	盐雾试验 Salt Spray Test	配制浓度 $(5 \pm 1)\%$ NaCl 溶液, 确保盐溶液的 pH 值为中性 $(6.5 \sim 7.2)$; 压力桶温度 $47 \pm 1^\circ\text{C}$, 喷雾压力保持在 $1.00 \pm 0.1 \text{ kgf/cm}^2$, 喷雾量 $1.0 \sim 2.0 \text{ ml}/80 \text{ cm}^2/\text{h}$; 试验时间 24H; Prepare a $5 \pm 1\%$ NaCl solution, ensure the pH value of the salt solution is neutral $(6.5 \sim 7.2)$; Pressure pot temperature $47 \pm 1^\circ\text{C}$, spray pressure maintained at $1.00 \pm 0.1 \text{ kgf/cm}^2$, spray rate $1.0 \sim 2.0 \text{ ml}/80 \text{ cm}^2/\text{h}$; Test duration 24 hours;	产品表面外露区域不可有氧化、锈蚀现象; 其它区域盐雾试验后的氧化/生锈面积 $< 1.0\%$ The exposed area of the product surface should not have oxidation or rusting; Other areas after the salt spray test, the oxidation/rust area should be less than 1.0%;
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