

规格书

SPECIFICATION FOR APPROVAL

物料描述

DESCRIBE: Antenna For Anker (A1783)

客户料号

Customer NO:

物料编码

Model NO: ATC1493-HY099B70RA

天线型号

Antenna type: 2.4G WIFI Antenna (FPC+Cable) Black

日期

DATE: 2025. 05. 22

制造商

Manufacturer: 爱特恩科技(深圳)有限公司

深圳市宝安区石岩街道塘头一号路创维创新谷5#C栋201

AT&C Technologies(shenzhen)co.,Ltd

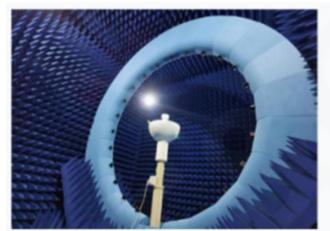
Room 201, Building C, No. 5, Skyworth Innovation Valley, Tangtou No. 1 Road, Shiyan Street,

Bao'an District. Shenzhen

| | | 结构/器件 | 研发 | 质量 | 核准 |
|-----------|----|-------|-----|-----|---------------------------------------|
| 客户承认 | 确认 | | | | |
| | | 确认 | 校对 | 审核 | 大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大 |
| 供应商 承认 | 确认 | 资业辉 | 莫振文 | 徐丽英 | AT&C 型 研发专用章 |

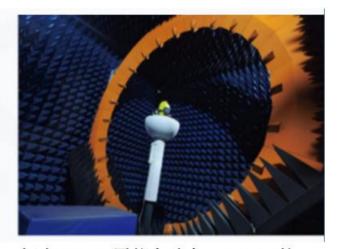
AT&C

测试设备









拥有SATIMO原装实验室7M*5M*5M的24探头一座 益麦3.5MX3.5MX3.5M的24探头一座 频率范围均为400MHZ-8.5GHZ 2/3/4/5G、 WIFI A/B/G/N/AC/AX BT GPS NB-10T等有源测试, 拥有模拟人头手测试设备



BOM

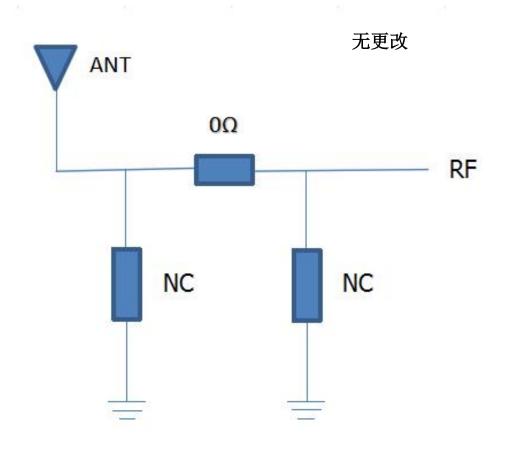
| | Customer 客户 | Anker | Written By 制作 | ZYH | Orig. Date 制作日期 | 2025. 05. 22 |
|----|--------------------|--------------------|-------------------|------|-----------------------|--------------|
| Pa | art Number 料号 | ATC1493-HY099B70RA | Revised By 校订 | SHIN | Revised Date 校订日期 | 2025. 05. 22 |
| | escription 零件名称 | 2.4G WIFI ANT | Approved By 确认 | НЈ | Approved Date 确认日期 | 2025. 05. 22 |

| Customer number | ATC number | Part name |
|-----------------|--------------------|---|
| | ATC1493-HY099B70RA | 44.67*10.62*0.12,PI+CU,黑色线, 线径0.81,线长110mm,配3代端子 |



天线匹配

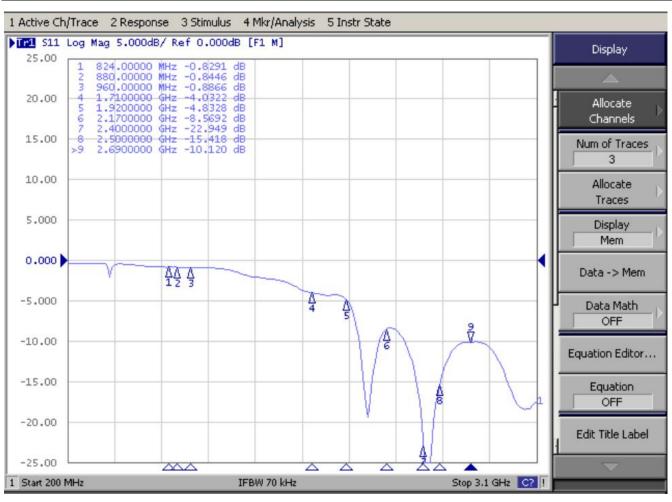
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S11/VSWR(无源驻波比)

| Customer 客户 | Anker | Written By 制作 | ZYH | Orig. Date 制作日期 | 2025. 05. 22 |
|---------------------|--------------------|-------------------|------|-----------------------|--------------|
| Part Number 料号 | ATC1493-HY099B70RA | Revised By 校订 | SHIN | Revised Date 校订日期 | 2025. 05. 22 |
| Description 零件名称 | 2.4G WIFI ANT | Approved By 确认 | НЈ | Approved Date 确认日期 | 2025. 05. 22 |





天线无源测试报告

| Customer 客户 | Anker | Written By 制作 | ZYH | Orig. Date 制作日期 | 2025. 05. 22 |
|---------------------|--------------------|-------------------|------|-----------------------|--------------|
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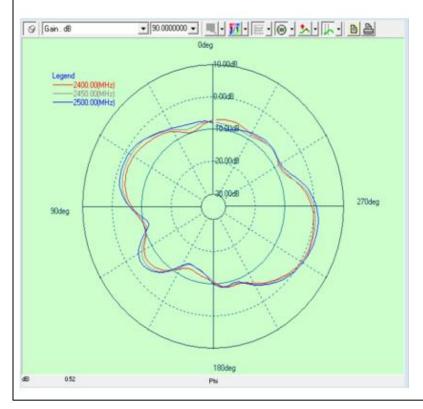
| (2.46) |) Passive Test R | lesults(无源测试纟 | 吉果) |
|----------------|------------------|-------------------|---------------|
| Frequency(MHz) | Efficiency(%) | Efficiency(dB) | Max Gain(dBi) |
| 2400 | 55. 03% | -2.59 | 3. 47 |
| 2410 | 55. 27% | -2.58 | 3. 43 |
| 2420 | 55. 13% | -2.59 | 3. 37 |
| 2430 | 54. 28% | -2.65 | 3. 38 |
| 2440 | 54.68% | -2.62 | 3. 41 |
| 2450 | 54. 29% | -2.65 | 3. 53 |
| 2460 | 54. 58% | -2.63 | 3. 48 |
| 2470 | 55. 61% | -2.55 | 3. 39 |
| 2480 | 57. 97% | -2.37 | 3. 39 |
| 2490 | 57. 51% | -2.40 | 3. 65 |
| 2500 | 55. 97% | -2.52 | 3. 70 |
| AVG: | 55. 48% | -2.56 | 3. 47 |



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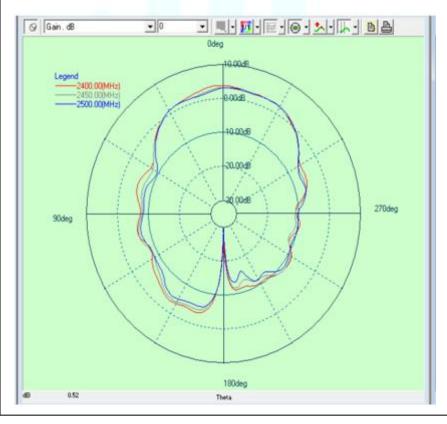




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E1

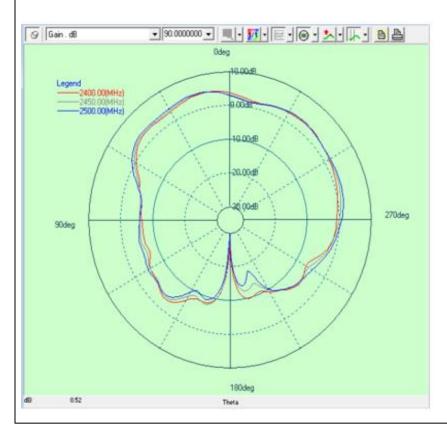




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E2

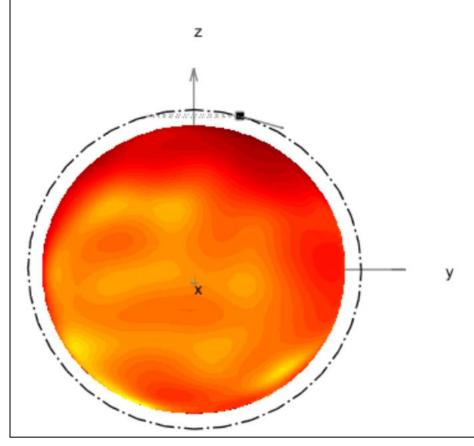




| Customer 客户 | Anker | Written By 制作 | ZYH | Orig. Date 制作日期 | 2025. 05. 22 |
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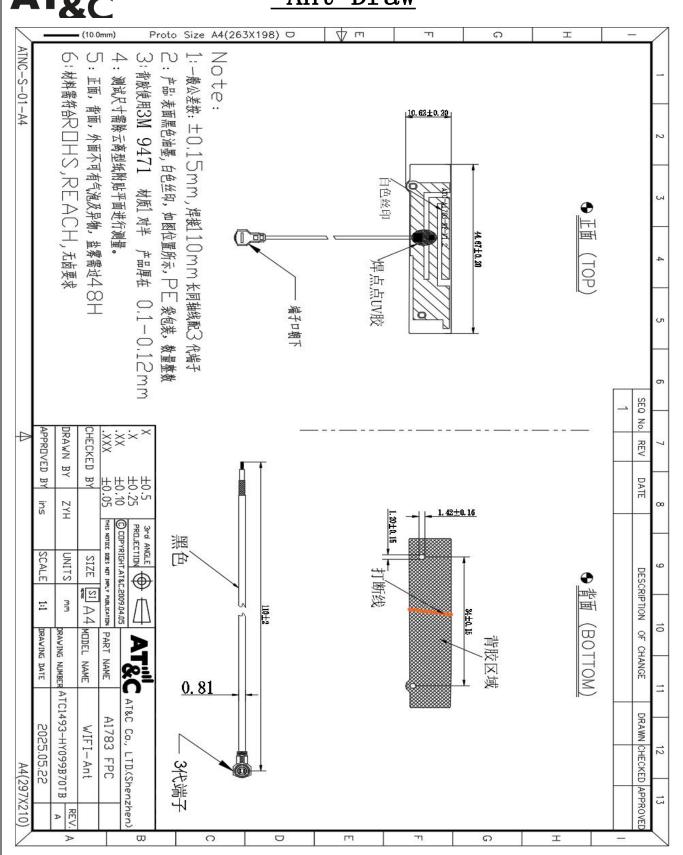


2450MHz





Ant Draw





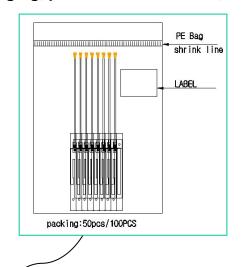
A1783 WIFI天线组件 生产工艺流程

| No | 工艺名称 | 使用设备、夹 具、工装 | 检验项目 | 管控因数 | 参考标准 | 检验频次 |
|----|----------------------|----------------|-------------------|------|-------------------------------|----------|
| | | | 关键尺寸 | | 参考图纸 | 1 |
| 1 | FPC来料 | | FPC部件常见外观 缺陷 | | 参考相关检验规范 | AQL0.65 |
| ' | FFO X | | | | ≥5Kg/f | 2 |
| | | | 材料型号, RoHS 符合性 | | 参考图纸 | 1次 |
| | | | 关键尺寸 | | 参考图纸 | 1 |
| 2 | 同轴线来 | 二次元或卡尺 | 同轴线部件常见外 观缺陷 | | 参考相关检验规范 | AQL0.65 |
| | 料 | | | | 易焊接,无氧化焊接不上等现象 | 2 |
| | | | 材料型号, RoHS 符合性 | | 参考图纸 | 1次 |
| | | | 烙铁焊接 | 焊接温度 | 320±10℃ | 1 |
| 3 | 同轴线焊 | 烙铁、锡线 | | | 不可短路、连锡、线皮烫伤 | 100%自主检验 |
| | 接 | 70 VX VX | 焊接外观 | | 不可假焊、虚焊 | 100%自主检验 |
| | | | | | 焊点不可少锡,多锡(焊点大) | 100%自主检验 |
| 4 | 网分测试 | 网络分析仪 测试工装 | 测试波形符合性 | 网分参数 | 产品测试波形参数与设定波形参数一致,显示"PASS"为合格 | 100% |
| | | | 外观 | | 参考Phoebe天线检验规范 | 100% |
| 5 | 100% 外观 检验 和包装 | 纸箱,托盘,标签,待包装成品 | 包装数量 | | 参考包装指导 | 100% |
| | | | 正确的标示 | | 正确的品名,数量和相关信息 | 1次 |
| | | | 天线关键尺寸和位 置度 | | 参考产品图纸 | 1次 |
| | 0001116 | | 镀层厚度和粘附力 报告 | | 参考产品图纸和Phoebe天线检验规范 | 1次 |
| 6 | OQC出货 检验 | 二次元/卡尺 3M胶 | 同轴线拉拔力测试 | | 参考产品拉拔力测试标准 | 1次 |
| | | | <u></u> 盐雾测试 | | 参考产品盐雾测试标准 | 每月/次 |
| | | _ | 天线外观,包装和 标签 | | 参考Phoebe天线检验规范 | AQL0.65 |



Packaging method

PE bag packaging, product emission neat, uniform quantity





PART LIST

*包装图为示意图,不代表图片为实际产品

| NO | DESCRIPTION | Q'TY | MATERIAL | REMARKS | REV. |
|----|--------------|--------|----------|---------|------|
| 1 | ANTENNA | 1/1000 | | N/A | Α |
| 2 | PAD OUT | 1/4 | SW A골 5T | N/A | А |
| 4 | CARTOON BOX | - | SW A골 5T | N/A | А |
| 5 | PACKING TAPE | - | PP | N/A | А |
| | | | | | |

公司抬头

爱特恩科技(深圳)有限公司环保声明 AT&C TECHNOLOGIES(SHENZHEN)CO.,LTD Environmental Statement

供应商名称Supplier Name: 爱特恩科技(深圳)有限公司/AT&C TECHNOLOGIES (SHENZHEN) CO., LTD

产品型号/Part No:

产品名称/Product Description: FPC

物料编号/Part No:

材质描述/Material Description: PI+CU

我司郑重申明:给安克创新科技股份有限公司供应的所有批次的产品/物料均符合以下环保法规的最新要求,如因不符合以下环保法规要求所造成的损失全部由我司承担。

We guarantee that a batchs of products/material we ship to Anker Innovations Technology Co. Ltd meet the lastest environmental regulations as following, We will take all the loses if any products we supply can not meet following environmental regulations.

| 涉及法规 | 化学物质(Chemical Substances) | spec (ppm) | 是否满足(Y/N) |
|--|---|------------|-----------|
| 2 101777 | 铅及其化合物 Lead and compounds | 1000 | Y |
| | 镉及其化合物 Cadmium and its compounds | 100 | Y |
| | 汞及其化合物 Mercury and its compounds | 1000 | Y |
| | 6价铬的化合物 chromium(VI) compounds | 1000 | Y |
| | 多溴联苯polybrominated biphenyls(PBB) | 1000 | Y |
| RoHS指令 | 多溴二苯醚polybrominated diphenylethers(PBDE) | 1000 | Y |
| | 邻苯二甲酸二正丁酯DibutyI phthalate (DBP) | 1000 | Υ |
| | 邻苯二甲酸丁基苄酯Butyl benzyl phthalate (BBP) | 1000 | Y |
| | 邻苯二甲酸二(2-乙基己基)酯Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | Y |
| | 邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) | 1000 | Y |
| REACH 法規(1907/2006) SVHC | REACH 法規(1907/2006)(若有更新,以欧盟官方更新清单为准) | 1000 | Y |
| | 有机锡 | 100C | Y |
| REACH 法規(1907/2006) | 镍释放 | 1000 | Y |
| 附录17(如适用) | 多环芳香烃(18种PAHs) | 参考法规 | Y |
| 包装指令packaging | 铅、镉、汞、六价铬的总和the sum of concentration levels of lead, | 100 | Y |
| Directive | cadmium, mercury and hexavalent chromium 汞及其化合物 Mercury and its compounds in batteries and | 5 | N/A |
| 电池指令batteries and | accumulators 镉及其化合物 Cadmium and its compounds in batteries and | 20 | N/A |
| accumulators Directive | accumulators | 20 | N/A |
| | 电池中的铅及其化合物 Lead and compounds in batteries and accumulators | 40 | N/A |
| TSCA法规(40 CFR 751,401-751,413) | DecaBDE十溴联苯醚/HCBD六氯丁二烯/PIP (3:1)] 苯酚/2,4,6-tris(tert-butvl)phenol (2,4,6-TTBP)2,4,6-三叔丁基苯酚 | 禁用 | Y |
| 加州65号文件Proposition (BBP),Di(2-ethylhexyl)phthalate(DEHP),Diisodecyl Phthalate (DIDP),Diisononyl Phthalate (DINP),Di-n-hexyl Phthalate (DNP)) | | 100 | Y |
| · 持久性有机污染物 | 六溴环十二烷 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 100 | Y |
| POPs(EU)2019/1021 | 短链氯化石蜡Alkan es C10-C13, chloro (short-chain chlorinated paraffins), SCCPs/MCCP.LCCP | 1500 | Y |

供应商(法人或授权人)签字、盖章、签署时间Supplier (the legal representative or authorized officer):

Signed by: (签名)

职位:

Seal:(盖公司印章)

Date: (日期)

公司抬头

爱特恩科技(深圳)有限公司环保声明 AT&C TECHNOLOGIES(SHENZHEN)CO.,LTD Environmental Statement

供应商名称Supplier Name: 爱特恩科技 (深圳) 有限公司/AT&C TECHNOLOGIES (SHENZHEN) CO., LTD

产品型号/Part No:

产品名称/Product Description:端子

物料编号/Part No:

材质描述/Material Description: 1代/2代/3代/4代

我司郑重申明:给安克创新科技股份有限公司供应的所有批次的产品/物料均符合以下环保法规的最新要求.如因不符合以下环保法规要求所造成的损失全部由我司承担。

We guarantee that all batchs of products/material we ship to Anker nnovations Technology Co., Ltd meet the lastest environmental regulations as following, We will take all the loses if any products we supply can not meet following environmental regulations.

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|--|--|------------|-----------|
| 2012179 | 铅及其化合物 Lead and compounds | 1000 | Υ |
| | 镉及其化合物 Cadmium and its compounds | 100 | Y |
| | 汞及其化合物 Mercury and its compounds | 1000 | Υ |
| | 6价铬的化合物 chromium(VI) compounds | 1000 | Y |
| | 多溴联苯polybrominated biphenyls(PBB) | 1000 | Y |
| ioHS指令 | 多溴二苯醚polybrominated diphenylethers(PBDE) | 1000 | Y |
| | 邻苯二甲酸二正丁酯Dibutyl phthalate (DBP) | 1000 | Υ |
| | 邻苯二甲酸丁基苄酯Butyl benzyl phthalate (BBP) | 1000 | Y |
| | 邻苯二甲酸二(2-乙基己基)酯Bis(2-ethylhexyl) phthalate (DEHP) | 1000 | Y |
| | 邻苯二甲酸二异丁酯Diisobutyl phthalate (DIBP) | 1000 | Y |
| REACH 法規(1907/2006) SVHC | REACH 法規(1907/2006)(若有更新,以欧盟官方更新清单为准) | 1000 | Y |
| | 有机锡 | 1000 | Υ |
| REACH 法規(1907/2006) | 镍释放 | 1000 | Y |
| 附录17(如适用) | 多环芳香烃(18种PAHs) | 参考法规 | Y |
| 包装指令packaging | 铅、镉、汞、六价铬的总和the sum of concentration levels of lead, | 100 | N/A |
| Directive | cadmium, mercury and hexavalent chromit m 汞及其化合物 Mercury and its compounds in batteries and | 5 | N/A |
| 电池指令batteries and | accumulators 镉及其化合物 Cadmium and its compounds in batteries and | 20 | N/A |
| accumulators Directive | accumulators 电池中的铅及其化合物 Lead and compounds in batteries and | 40 | N/A |
| TSCA法规(40 CFR | accumulators Deca BDE 十溴联苯醛/HCBD六氯丁二烯/PIP (3:1)] 苯酚/2,4,6-tris(tert- | 禁用 | N/A |
| butvl)phenol (2.4.6-TTBP)2.4.6-三叔丁基苯酚 日本 Pb 和邻苯类(Dibutyl Phthalate (DBP),Benzylbutyl Phthalate (BBP),Di(2-ethylhexyl)phthalate(DEHP),Diisodecyl Phthalate (DIDP),Diisonony Phthalate (DINP),Di-n-hexyl Phthalate (DnHP)) | | 100 | N/A |
| 持久性有机污染物 | 六溴环十二烷 Hexabromocydododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 100 | N/A |
| POPs(EU)2019/1021 | 短链氯化石蜡A kanes C10-C13, chloro (short-chain chlorinated paraffins), SCCPs/MCCP,LCCP | 1500 | N/A |

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职位:

Seal: (盖公司印章)

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