

SPECIFICATION APPROVAL SHEET  
ODM 样品承认书

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|--|-----------|----|---------|----|----|-----|--------|----------|---------|--|----|------|----|----|----|----|----|----|------|--|--|--|--|--|--|--|--|--|--|--|
| 质量代表<br>quality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 物料名称<br>Mateial name                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          | FPC                                                                                                                                                       |                                                                                          | 物料描述<br>Description         |                                                                                          | FPC;FPC;L27.2*W10*T0.1mm;2Layer;0.1mm;压延铜;黑色;无 EMI;左耳 Touch + 天线 FPC                     |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 中诺料号 ENOK P/N                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          | 61100831H001                                                                                                                                              |                                                                                          | 制造商料号 MPN                   |                                                                                          | RQ03B079641B-L                                                                           |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 供应商 Vendor                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          | 深圳市瑞强通信有限公司<br>(SHENZHEN Strongpower Communication Co.,Ltd.)                                                                                              |                                                                                          | 制造商 manufacturer            |                                                                                          | 海顺电子科技(珠海)有限公司<br>(HAISHUN ELECTRONIC TECHNOLOGY (ZHUHAI) Co.,Ltd)                       |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 样品数量 sample QTY                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          | 2PCs                                                                                                                                                      |                                                                                          | 首次使用机型 Model                |                                                                                          | P16A                                                                                     |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 生产地址 address                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          | 广东省珠海市斗门区井岸镇新青二路建泰工业园西区 5 号 10 栋<br>(No. 5, Building 10, West Jiantai Industrial Park, Xinqing II road, Jingan Town, Doumen District, Zhuhai , Guangdong) |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RoHS                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          | 资料是否齐全 information complete |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 样品一致 consistency                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 判定结果Result: <input type="checkbox"/> 接收 FA, <input type="checkbox"/> 限量接收 Risk Go 数量 QTY , <input type="checkbox"/> 拒收 REJ。                                                                                                                                                                                                                                                                  |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 说明（限量接收与拒收需注明详细原因）Risk go or reject comment:<br>SQE 代表: SQM 负责人批准:<br>备注: 外观限度样由质量 SQE 和 PQE 一起确认。<br>Remark: appearance limit sample is confirmed by SQE and PQE together.                                                                                                                                                                                                                  |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DQA 代表                                                                                                                                                                                                                                                                                                                                                                                       | 厂家测试报告 test report                                                                       |                                                                                                                                                           | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                             | 可靠性确认 OTR confirm                                                                        |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 以诺测试报告 test report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                                                                                           | Design Fix 状态                                                                            |                             | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 判定结果Result: <input type="checkbox"/> 接收 FA, <input type="checkbox"/> 限量接收 Risk Go 数量 QTY , <input type="checkbox"/> 拒收 REJ。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 说明（限量接收与拒收需注明详细原因）Risk go or reject comment:<br>DQA 代表:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 研发或工程代表<br>R&D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 尺寸 dimension                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          | 厂家规格书 specification         |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 功能确认 function                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          | 颜色 color                    |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 说明书内容 manual content                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          | 外观效果 appearance             |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 来料包装方式 packing                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A,                                                                  |                                                                                          | 相关安规证书 safety certificate   |                                                                                          | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 判定结果Result: <input type="checkbox"/> 接收 FA, <input type="checkbox"/> 限量接收 Risk Go 数量 QTY , <input type="checkbox"/> 拒收 REJ。                                                                                                                                                                                                                                                                  |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 说明（限量接收与拒收需注明详细原因）Risk go or reject comment:                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <table><tr><td>Confirmer</td><td>ID</td><td>PCAKING</td><td>ME</td><td>HW</td><td>ENG</td><td>DEVICE</td><td>Approval</td><td>Manager</td><td></td></tr><tr><td>承认</td><td>外观设计</td><td>包材</td><td>结构</td><td>硬件</td><td>工程</td><td>器件</td><td>审批</td><td>部门经理</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  | Confirmer | ID | PCAKING | ME | HW | ENG | DEVICE | Approval | Manager |  | 承认 | 外观设计 | 包材 | 结构 | 硬件 | 工程 | 器件 | 审批 | 部门经理 |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Confirmer                                                                                                                                                                                                                                                                                                                                                                                    | ID                                                                                       | PCAKING                                                                                                                                                   | ME                                                                                       | HW                          | ENG                                                                                      | DEVICE                                                                                   | Approval                                                                                 | Manager |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 承认                                                                                                                                                                                                                                                                                                                                                                                           | 外观设计                                                                                     | 包材                                                                                                                                                        | 结构                                                                                       | 硬件                          | 工程                                                                                       | 器件                                                                                       | 审批                                                                                       | 部门经理    |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 备注 :结构件颜色、外观效果、颜色限度样以 ID 代表确认样品为准;《说明书》内容由软件和包材代表一起确认 ,包材物料由包材代表确认;结构料由结构代表确认 ,结构电子料由结构、硬件代表一起确认, 电子料由硬件代表确认;产线辅料由工程代表确认; 器件专家负责对应器件确认, 如电池, 摄像头, 屏, 连接器等。 Note: the color, appearance and color limit samples of the structural parts shall be subject to the confirmed samples of the ID representative;The contents of the specification shall be confirmed by the software and the packaging material representative together, and the packaging material representative shall confirm the packaging material;The structure material is confirmed by the structure representative, the structure electronic material is confirmed by the structure, the hardware representative, the electronic material is confirmed by the hardware representative;Auxiliary materials for production line shall be confirmed by the engineering representative; Device expert is responsible for the confirmation of corresponding devices, such as battery, camera, screen, connector, etc. |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 重要检验指标项目（研发）: Important inspection items ( R&D comment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          | <input type="checkbox"/> N/A,                                                            |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 序号 NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 重点检验项 Key inspection item                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          | 标准要求 standard request                                                                                                                                     |                                                                                          |                             | 确认人 confirmor                                                                            |                                                                                          | 备注 remark                                                                                |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             | 宋旭辉                                                                                      |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             | 贺一百                                                                                      |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 供应商 vendor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          | 张记                                                                                                                                                        |                                                                                          |                             | 周俊                                                                                       |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |
| 注: FA 表示接收, REJ 表示拒绝接收, N/A 表示不适用; 需加盖跨页骑缝印章。 Doc. No: FORM-SQM-107 (R2.0)<br>Note: FA means receiving. REJ means rejecting. N/A means not applicable;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |                                                                                                                                                           |                                                                                          |                             |                                                                                          |                                                                                          |                                                                                          |         |  |           |    |         |    |    |     |        |          |         |  |    |      |    |    |    |    |    |    |      |  |  |  |  |  |  |  |  |  |  |  |

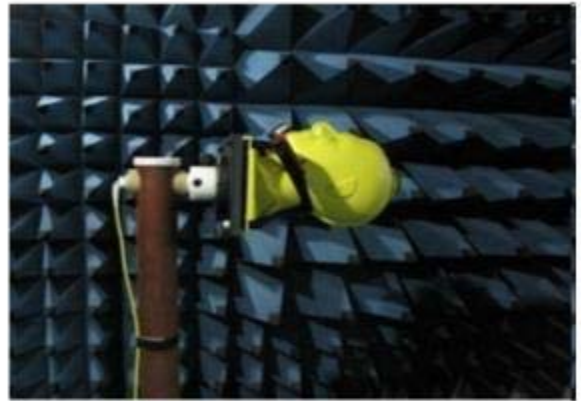
## 一、 测试环境Test environment

### 1.测试系统Test system

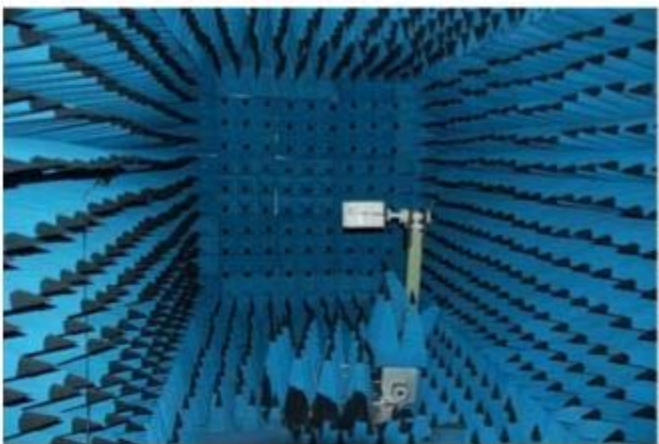
## chamber



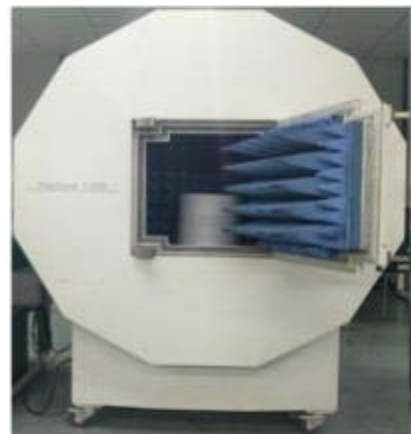
Satimo



Airlink



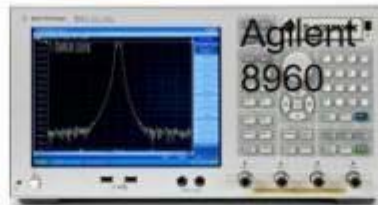
Guang Ping



GTS

## 2.测试仪器Testing instrument

# equipment



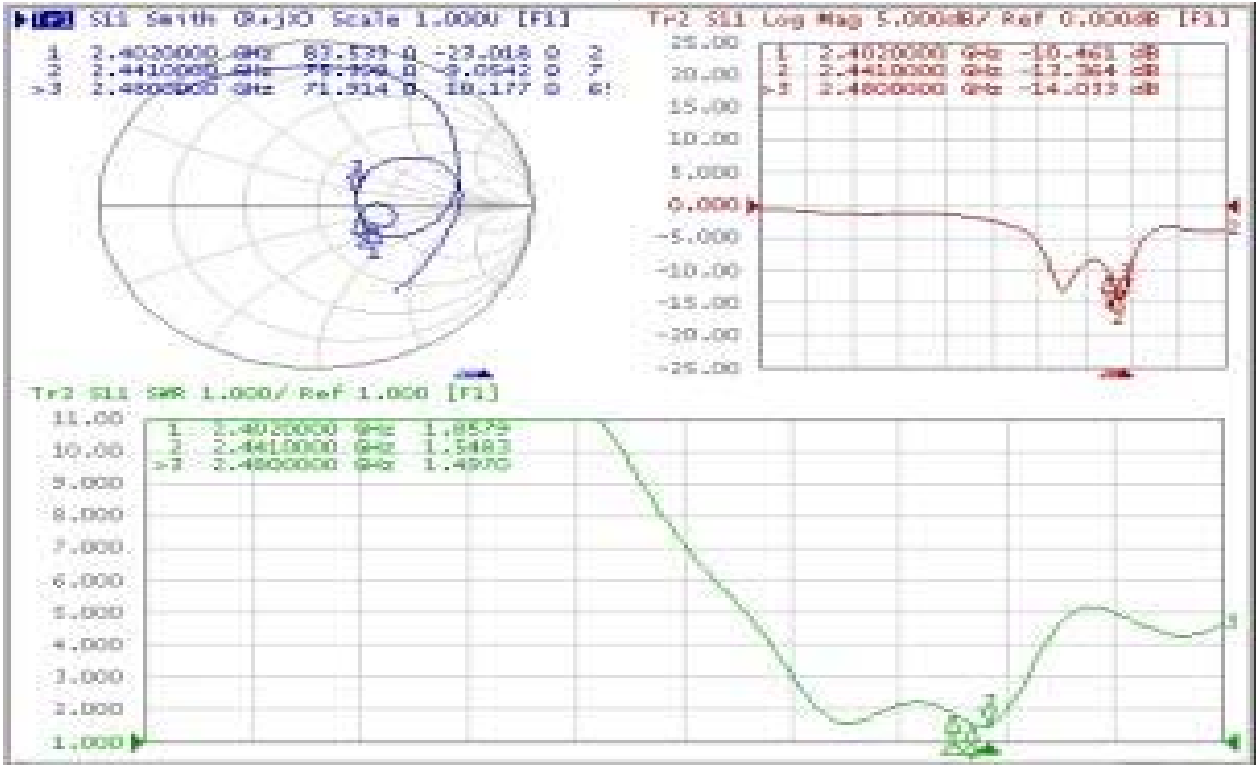
## 保 密 要 求

深圳市瑞强通信有限公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳市瑞强通信技术有限公司事先书面同意的时不允许透露给任何人或公司。

二.无源测试数据Passive test data

1.S 参数argument

左耳L



2.无源效率及增益 Efficiency&Gain

左耳L

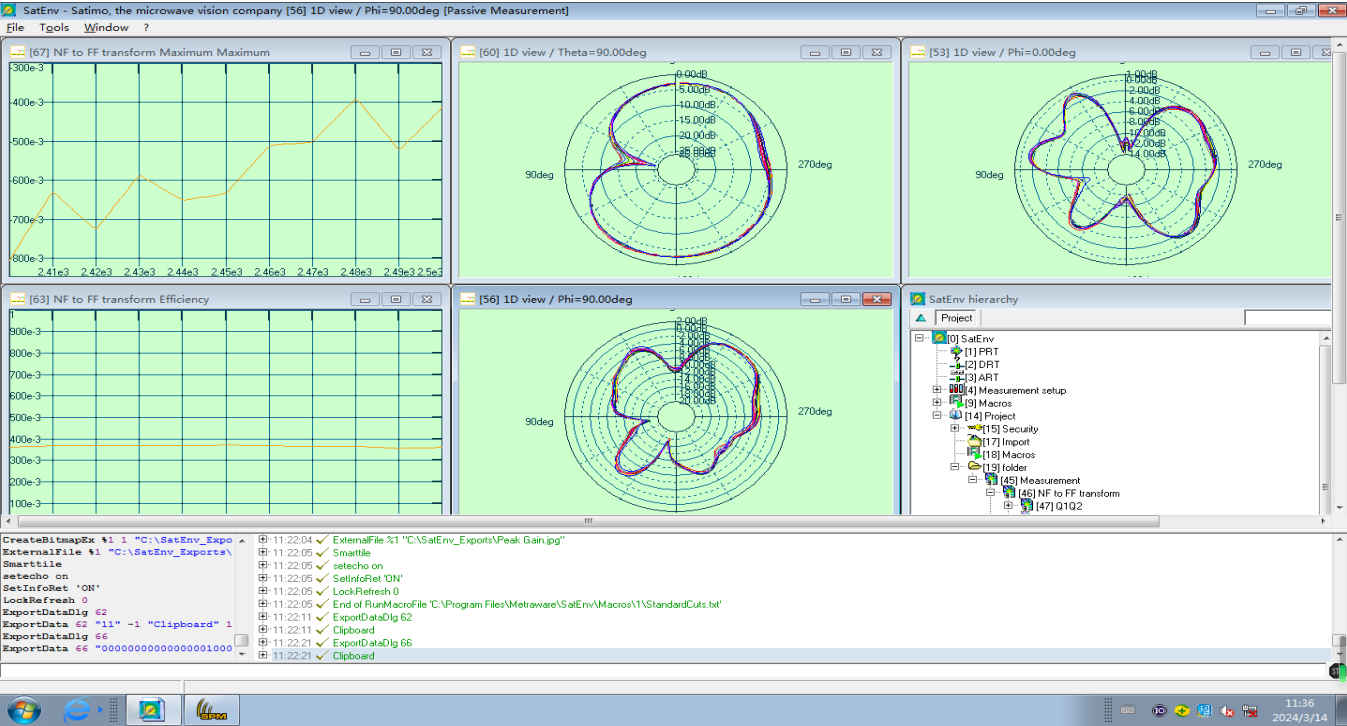
| 频率(MHz) | 效率 % | 效率(dB) | 增益(dBi) |
|---------|------|--------|---------|
| 2400    | 35%  | -4.6   | -1.0    |
| 2410    | 35%  | -4.6   | -0.8    |
| 2420    | 34%  | -4.7   | -0.6    |
| 2430    | 35%  | -4.6   | -0.9    |
| 2440    | 37%  | -4.3   | -0.7    |
| 2450    | 36%  | -4.4   | -0.6    |
| 2460    | 32%  | -4.9   | -1.1    |
| 2470    | 33%  | -4.8   | -0.9    |
| 2480    | 34%  | -4.7   | -0.8    |
| avg     | 35%  | -4.6   | -0.8    |

保 密 要 求

深圳市瑞强通信有限公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳市瑞强通信技术有限公司事先书面同意的时不允许透露给任何人或公司。

3.无源方向图（自由空间）Passive direction diagram

左耳L earphone



三．有源测试数据Active test data

1.TRP&TIS

左耳- 自由空间Left ear – Free space

| 信道<br>CH | TRP<br>(dBm) | TIS<br>(dBm) |
|----------|--------------|--------------|
| 0        | 3.21         | -87.63       |
| 39       | 3.75         | -88.84       |
| 78       | 3.95         | -89.68       |

左耳-人头耳The left ear. – The head ear

| 信道<br>CH | TRP<br>(dBm) | TIS<br>(dBm) |
|----------|--------------|--------------|
| 0        | -3.72        | -79.51       |
| 39       | -3.46        | -80.82       |
| 78       | -3.83        | -81.23       |

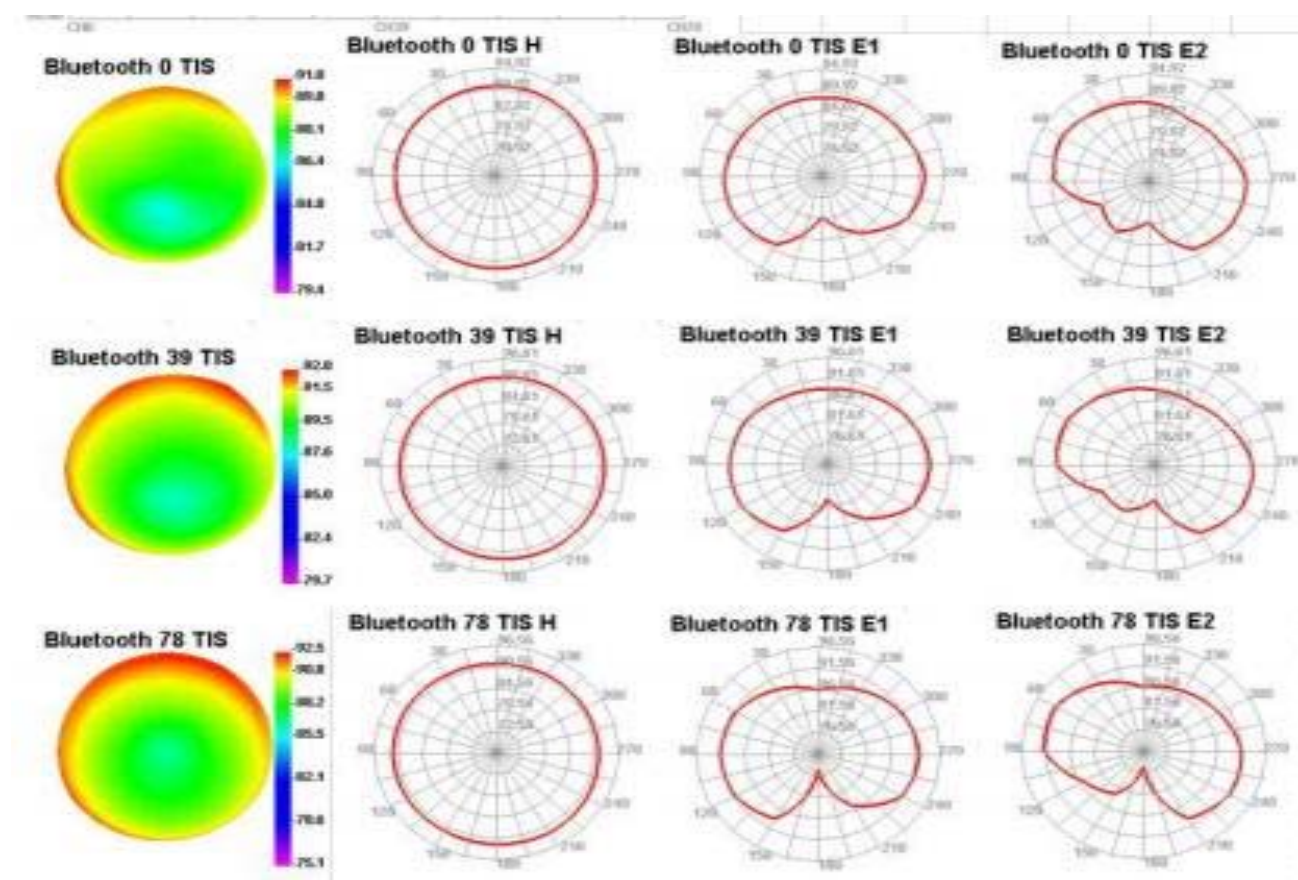
保 密 要 求

深圳市瑞强通信有限公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳市瑞强通信技术有限公司事先书面同意的时不允许透露给任何人或公司。



## 2.方向图Directional diagram

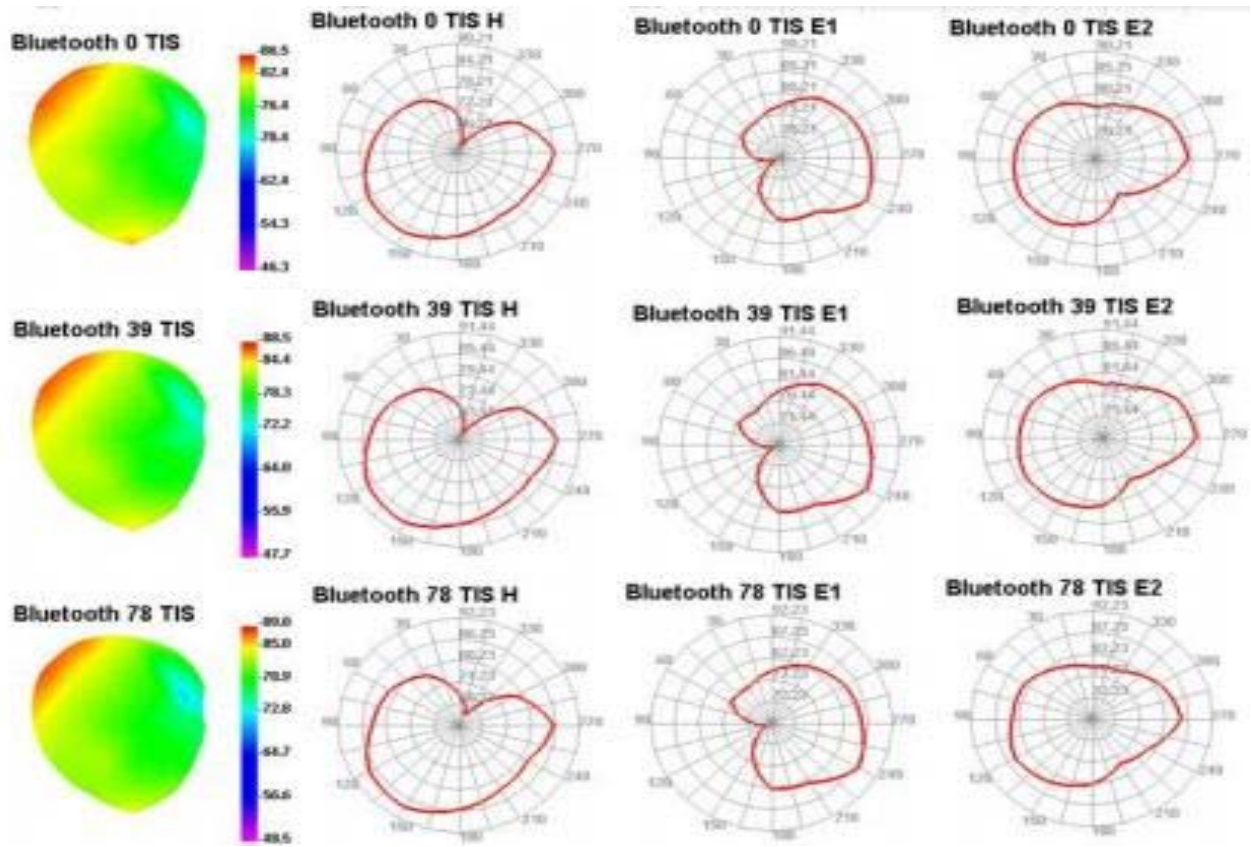
左耳- 自由空间Left ear - Free space



## 保 密 要 求

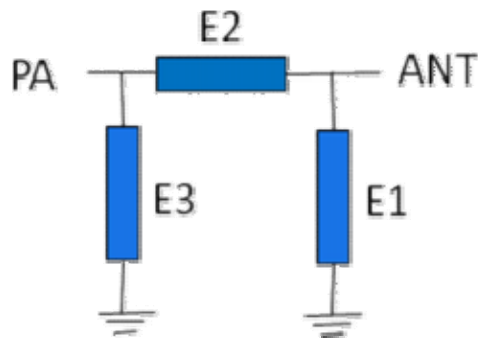
深圳市瑞强通信有限公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳市瑞强通信技术有限公司事先书面同意的时不允许透露给任何人或公司。

左耳-人头耳The left ear. - The head ear



四. 匹配电路（左右耳一样）Matching circuit (same as left and right ears)

|         |    |            |    |
|---------|----|------------|----|
| Element | E1 | E2         | E3 |
| Value   | NC | 0 $\Omega$ | NC |



五. 环境处理Environmental treatment

无None

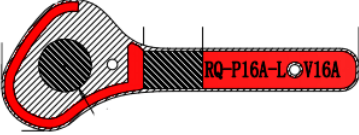
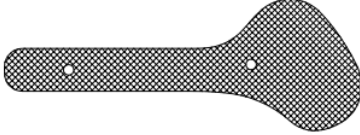
六: 工程图Engineering drawing

（见下页）(See next page)

保 密 要 求

深圳市瑞强通信有限公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳市瑞强通信技术有限公司事先书面同意的时不允许透露给任何人或公司。



|                             |                                                                                                                                                                                                                                                                                                                        |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |            |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------------|-------|--|-----------------------------------------------------------------------------------|--|----|------|----|------------|--|-------|-------|---|------|----|---------------|----|--|--|--------|-------|---|------|----|----------------|----|----|--|--------|-------|---|------|----|----|----|----|--|--------|-------|---|------|------|--|----|--|--|--|---|---|------|------|--|----|----|----|--|--|--|--|--|--|-----|----|----|---|
| 1                           | 2                                                                                                                                                                                                                                                                                                                      | 3                                                                                 | 4    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6              | 7   | 8          |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 黑色覆层膜印刷白色亮光字样<br>FPC膜基板半切出货 |                                                                                                                                                                                                                                                                                                                        |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |            |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| A                           |                                                                                                                                                                                                                                                                                                                        |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |            | A     |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| B                           |                                                                                                                                                                                                                                       |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |     |            | B     |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| C                           | NOTES:<br>1. 红色为铜材质部分; 空白为基材; 黄色部分为镀金区; 蓝色为背胶区域;<br>2. 刀模不可伤到线路, 镀金区要与线路导通;<br>3. 表面不可以有污物、擦伤、黑点、镀金后断裂及脱落等不良现象;<br>4. 材料: FPC单面板 [PI (20) 一对一基材+胶 (3M 9471 0.05mm)+表面 黑色覆层膜 (>0.01mm)];<br>5. 反面背胶为 3M 9471;<br>6. 金手指表面镀金(厚度: 0.5u"-1.5u"), 不可有氧化现象(需过盐雾实验);<br>盐雾实验48±1小时后表面无腐蚀点和镀层脱落;<br>7. 标*为重点尺寸, 未标注公差请按B级公差检验。 |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |            | C     |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| D                           | 备注: 本图纸由深圳市瑞强通信有限公司内部发行<br>未经允许任何人不得擅自拷贝、改动或带离公司。                                                                                                                                                                                                                                                                      |                                                                                   |      | <table><tr><td colspan="2">RF PA</td><td colspan="2"></td><td>机种</td><td>P16A</td><td>日期</td><td colspan="2">2022.06.07</td></tr><tr><td>0°10'</td><td>±0.10</td><td>○</td><td>0.02</td><td>品名</td><td>BT-L-FPC-V2.0</td><td>设计</td><td colspan="2"></td></tr><tr><td>10°20'</td><td>±0.12</td><td>○</td><td>0.03</td><td>料号</td><td>RQ03B079641B-L</td><td>审核</td><td>结构</td><td></td></tr><tr><td>20°40'</td><td>±0.15</td><td>⊥</td><td>0.02</td><td>材质</td><td>PI</td><td>审核</td><td>射频</td><td></td></tr><tr><td>40°50'</td><td>±0.20</td><td>⊥</td><td>0.04</td><td>表面处理</td><td></td><td>确认</td><td colspan="2"></td></tr><tr><td></td><td>B</td><td>⊥</td><td>0.02</td><td>外观处理</td><td></td><td>单位</td><td>mm</td><td>比例</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>FIT</td><td>版本</td><td>V1</td></tr></table> |                |     |            | RF PA |  |  |  | 机种 | P16A | 日期 | 2022.06.07 |  | 0°10' | ±0.10 | ○ | 0.02 | 品名 | BT-L-FPC-V2.0 | 设计 |  |  | 10°20' | ±0.12 | ○ | 0.03 | 料号 | RQ03B079641B-L | 审核 | 结构 |  | 20°40' | ±0.15 | ⊥ | 0.02 | 材质 | PI | 审核 | 射频 |  | 40°50' | ±0.20 | ⊥ | 0.04 | 表面处理 |  | 确认 |  |  |  | B | ⊥ | 0.02 | 外观处理 |  | 单位 | mm | 比例 |  |  |  |  |  |  | FIT | 版本 | V1 | D |
| RF PA                       |                                                                                                                                                                                                                                                                                                                        |  |      | 机种                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | P16A           | 日期  | 2022.06.07 |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 0°10'                       | ±0.10                                                                                                                                                                                                                                                                                                                  | ○                                                                                 | 0.02 | 品名                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BT-L-FPC-V2.0  | 设计  |            |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 10°20'                      | ±0.12                                                                                                                                                                                                                                                                                                                  | ○                                                                                 | 0.03 | 料号                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RQ03B079641B-L | 审核  | 结构         |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 20°40'                      | ±0.15                                                                                                                                                                                                                                                                                                                  | ⊥                                                                                 | 0.02 | 材质                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PI             | 审核  | 射频         |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 40°50'                      | ±0.20                                                                                                                                                                                                                                                                                                                  | ⊥                                                                                 | 0.04 | 表面处理                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 确认  |            |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
|                             | B                                                                                                                                                                                                                                                                                                                      | ⊥                                                                                 | 0.02 | 外观处理                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 单位  | mm         | 比例    |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
|                             |                                                                                                                                                                                                                                                                                                                        |                                                                                   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | FIT | 版本         | V1    |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 日期                          | 修改内容                                                                                                                                                                                                                                                                                                                   | 版本                                                                                | 修订   | 位置                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 外观处理           | 单位  | mm         | 比例    |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |
| 1                           | 2                                                                                                                                                                                                                                                                                                                      | 3                                                                                 | 4    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6              | 7   | 8          |       |  |                                                                                   |  |    |      |    |            |  |       |       |   |      |    |               |    |  |  |        |       |   |      |    |                |    |    |  |        |       |   |      |    |    |    |    |  |        |       |   |      |      |  |    |  |  |  |   |   |      |      |  |    |    |    |  |  |  |  |  |  |     |    |    |   |