

Kaadas凯迪仕

深圳市凯迪仕智能科技股份有限公司  
Shenzhen Kaadas Intelligent Technology co.,Ltd.

承 认 书

一、物料信息

|               |                                    |                                  |                                  |                                   |                             |                             |                             |
|---------------|------------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|
|               | 供货端信息                              |                                  | 客户端信息                            |                                   |                             |                             |                             |
| 产品描述          | 厂商料号：UB01NF1D1527A                 |                                  | 物料编码：                            |                                   |                             |                             |                             |
|               | 品名描述：FPC 天线                        |                                  | 物料版本：                            |                                   |                             |                             |                             |
|               | 规格描述：915MHz FPC 内置天线               |                                  | 品名描述：                            |                                   |                             |                             |                             |
|               | 制造商：东莞市优比电子有限公司                    |                                  | 规格描述                             |                                   |                             |                             |                             |
|               | 供应商/代理商:东莞市优比电子有限公司                |                                  | 客户机型：                            |                                   |                             |                             |                             |
| 附件清单：         | <input type="checkbox"/> 样品        | <input type="checkbox"/> 规格书     | <input type="checkbox"/> 工程图纸    | <input type="checkbox"/> CPK 报告   |                             |                             |                             |
|               | <input type="checkbox"/> FAI 全尺寸报告 | <input type="checkbox"/> 可靠性测试报告 | <input type="checkbox"/> 制程管制图   | <input type="checkbox"/> 包装方式     |                             |                             |                             |
|               | <input type="checkbox"/> 安规报告      | <input type="checkbox"/> RoHS 报告 | <input type="checkbox"/> CA65 报告 | <input type="checkbox"/> REACH 报告 |                             |                             |                             |
|               | <input type="checkbox"/> 无卤保证声明书   | <input type="checkbox"/> 无卤检测报告  |                                  |                                   |                             |                             |                             |
|               |                                    |                                  |                                  |                                   |                             |                             |                             |
| 供应商/<br>代理商签核 | 制作：卢泳薪                             | 审核：黄土放                           | 批准：刘长兴                           |                                   |                             |                             |                             |
| 技术确认栏         | 结构：                                |                                  | 硬件：                              |                                   |                             |                             |                             |
|               | 硬测：                                |                                  | 锁体：                              |                                   |                             |                             |                             |
|               | ID：                                |                                  | 器件：                              |                                   |                             |                             |                             |
|               | 产品：                                |                                  | 其它：                              |                                   |                             |                             |                             |
| 质量确认          | 质量工程师：                             |                                  |                                  |                                   |                             |                             |                             |
| 承认条件：         | <input type="checkbox"/> 拒绝承认      | 说明：                              |                                  |                                   |                             |                             |                             |
|               | <input type="checkbox"/> 临时承认      | 限量_____ Pcs 采购                   |                                  |                                   |                             |                             |                             |
|               | <input type="checkbox"/> 正式承认      | 签核人：                             |                                  |                                   |                             |                             |                             |
|               | <input type="checkbox"/> 采购        | <input type="checkbox"/> 硬件      | <input type="checkbox"/> 结构      | <input type="checkbox"/> NPI/工程   | <input type="checkbox"/> ID | <input type="checkbox"/> 器件 | <input type="checkbox"/> 器件 |
|               | <input type="checkbox"/> 软件        | <input type="checkbox"/> 客户      | <input type="checkbox"/> 加工厂     | <input type="checkbox"/> 供应商      | <input type="checkbox"/> 其他 | _____                       |                             |

表单编号：SZKDS-QA-4-001                      版本：A0

Modification History

| Version | Content Revision | Issued by | Date     |
|---------|------------------|-----------|----------|
| A       | Original version | Eddy      | 2024-7-3 |
|         |                  |           |          |
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## *Content*

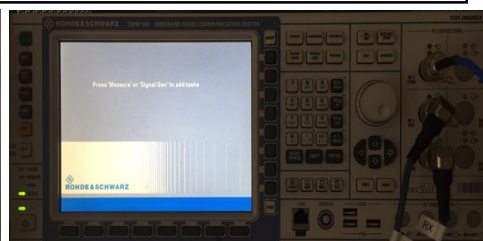
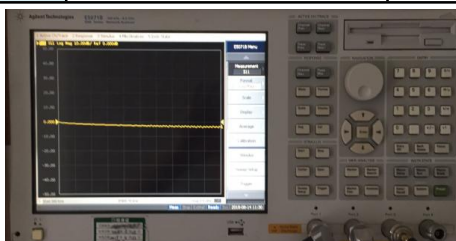
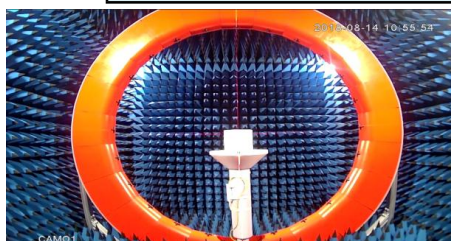
| <i>Item</i> | <i>Description</i>           |
|-------------|------------------------------|
| 1.-----     | Electrical Specification     |
| 2.-----     | Test Items and Equipment     |
| 3.-----     | S Parameter                  |
| 4.-----     | Efficiency and Gain          |
| 5.-----     | Radiation Pattern            |
| 6.-----     | Antenna installation diagram |
| 7.-----     | Mechanical Specification     |

## 1. Electrical Specification

| Characteristics       | Specifications      | Unit     |
|-----------------------|---------------------|----------|
| Outline Dimensions    | 33.17x20.45         | mm       |
| Frequency             | 915                 | MHz      |
| Impedance             | 50                  | $\Omega$ |
| VSWR                  | < 2                 |          |
| Polarization          | Linear Polarization |          |
| Gain                  | -2                  | dBi      |
| Efficiency            | >15                 | %        |
| Connector Type        | /                   |          |
| Operating temperature | -20℃~+85℃           |          |
| Storage Temp          | -20℃~+50℃           |          |

## 2. Test Items and Equipment

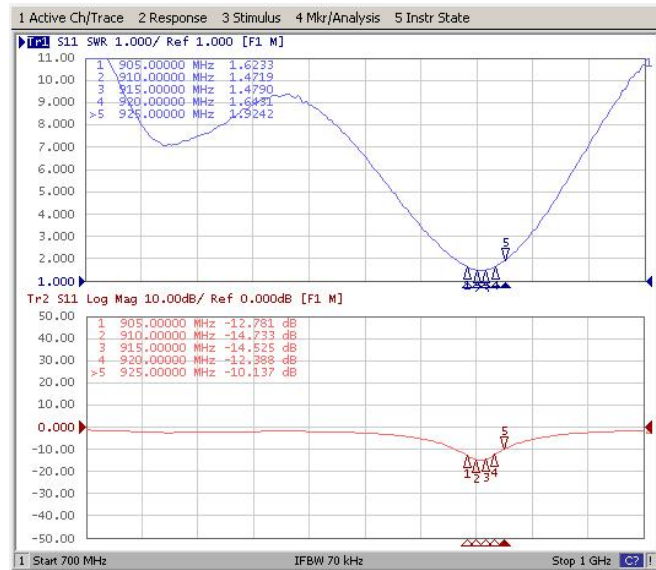
|                                            | Test items                                   | Test equipment                                                                       |
|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------|
| S Parameter                                | 1.Return Loss<br>2.VSWR                      | Network analyzer<br>(Agilent E5071B)                                                 |
| The whole machine of<br>Passive parameters | 1.Frequency<br>2.Gain<br>3.Radiation Pattern | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Network analyzer<br>(Agilent E5071B)      |
| The whole machine of<br>Active parameters  | 1.TRP<br>2.TIS                               | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Comprehensive test instrument<br>(CMW500) |



### 3. S Parameter

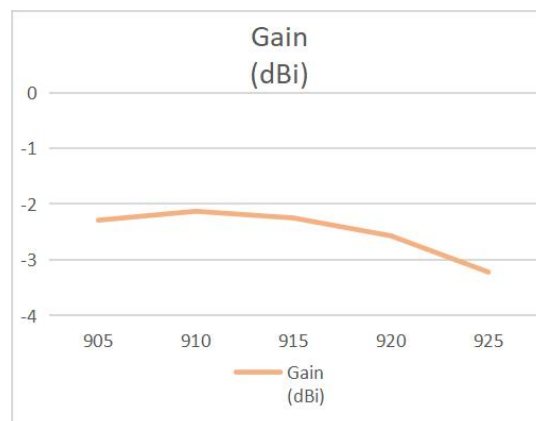
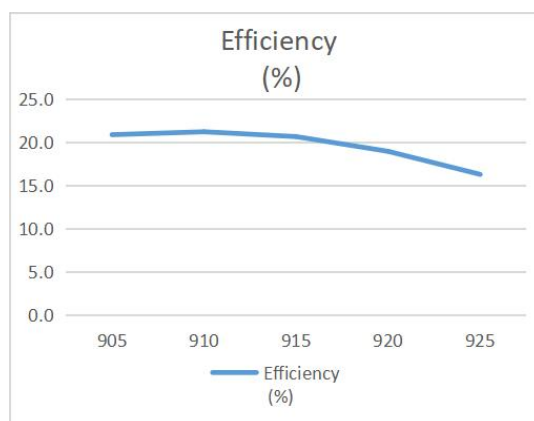
| Frequency (MHz) | Return Loss (dB) | VSWR |
|-----------------|------------------|------|
| 905             | -12.78           | 1.62 |
| 910             | -14.73           | 1.47 |
| 915             | -14.52           | 1.47 |
| 920             | -12.38           | 1.64 |
| 925             | -10.13           | 1.92 |

\* Voltage Standing Wave Ratio(VSWR)  
Return Loss(RL)  
 $RL = 20 * \log_{10}[(VSWR + 1) / (VSWR - 1)]$

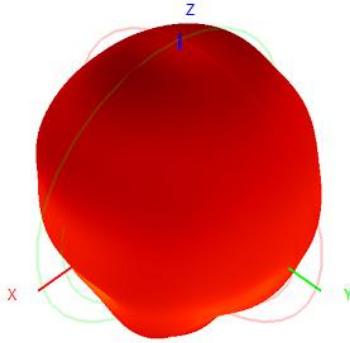


### 4. Efficiency and Gain

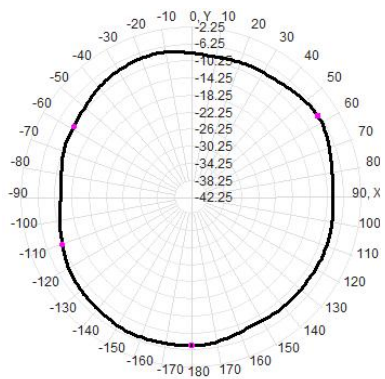
| Frequency (MHz) | 905   | 910   | 915   | 920   | 925   |
|-----------------|-------|-------|-------|-------|-------|
| Efficiency (%)  | 20.91 | 21.25 | 20.69 | 18.98 | 16.31 |
| Gain (dBi)      | -2.29 | -2.13 | -2.25 | -2.57 | -3.22 |



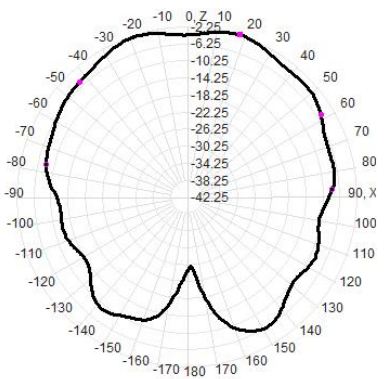
## 5. Radiation Pattern



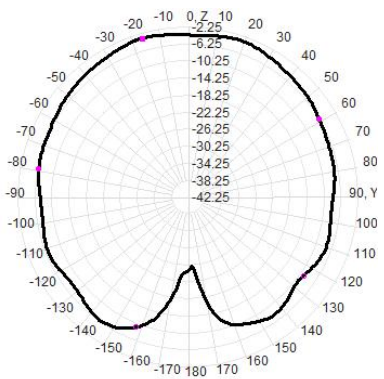
915MHz



H-XY

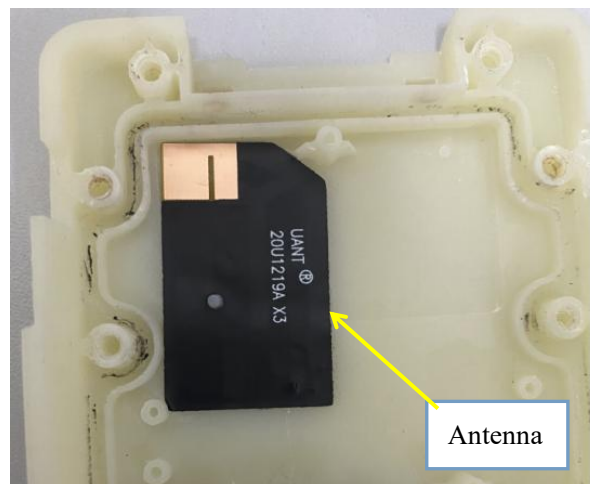


E1-XZ



E2-YZ

## 6. Antenna installation diagram



7.Mechanical Specification

