



# 天线承认书

## Parts Approval Sheet

|                                 |       |                |         |
|---------------------------------|-------|----------------|---------|
| <b>Customer</b>                 | 深云智汇  | <b>Project</b> | 室内机外置天线 |
| <b>Band</b>                     | WiFi  | <b>Color</b>   | BLACK   |
| <b>PN</b>                       | X3667 | <b>Version</b> | V1      |
| <b>Customer material number</b> |       |                |         |

**DATE: 2026/3/19**

| R&D                     |                   |                     | QC                |
|-------------------------|-------------------|---------------------|-------------------|
| <b>Issued by</b>        | <b>Checked by</b> | <b>Confirmed by</b> | <b>Checked by</b> |
|                         |                   |                     |                   |
| <b>Customer Confirm</b> |                   |                     |                   |

Environmental requirements: ☒ ROHS ☐ REACH ☐ 无

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## 1. Summary

This report summarizes the electrical results of the our antenna to support the project FARHD. The test fixture is made for further testing, which is show below:

| 整机类型   | 机顶盒                                                                               |                                                                                     |
|--------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 整机图    |  |  |
| 天线相关信息 | 天线种类及材质                                                                           | 外置PCB天线                                                                             |
|        | 调试频段                                                                              | 915MHz                                                                              |
|        | 天线形式                                                                              | 单极子                                                                                 |

## 2. General Description

### 2.1Antenna Components/Part revisions

The antenna part number is T: A

### 2.2Definitions

VSWR: Voltage Standing Wave Rate

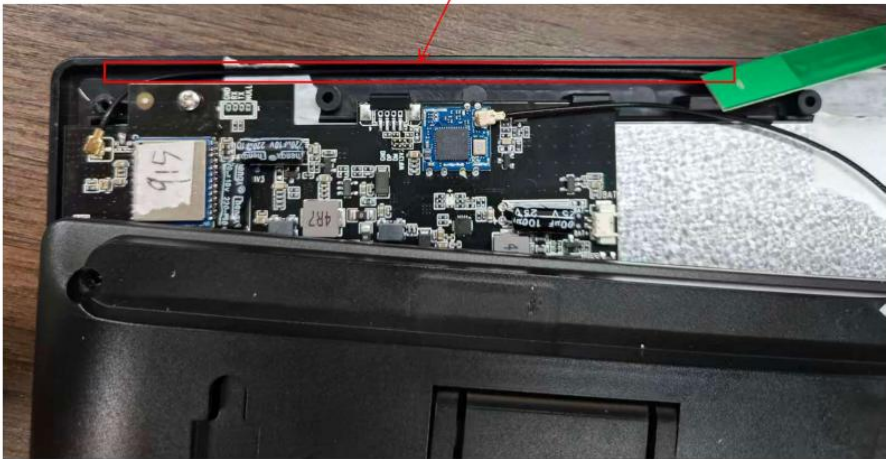
TRP: total radiated power

TIS: total isotropic sensitivity

3. 样品性能测试

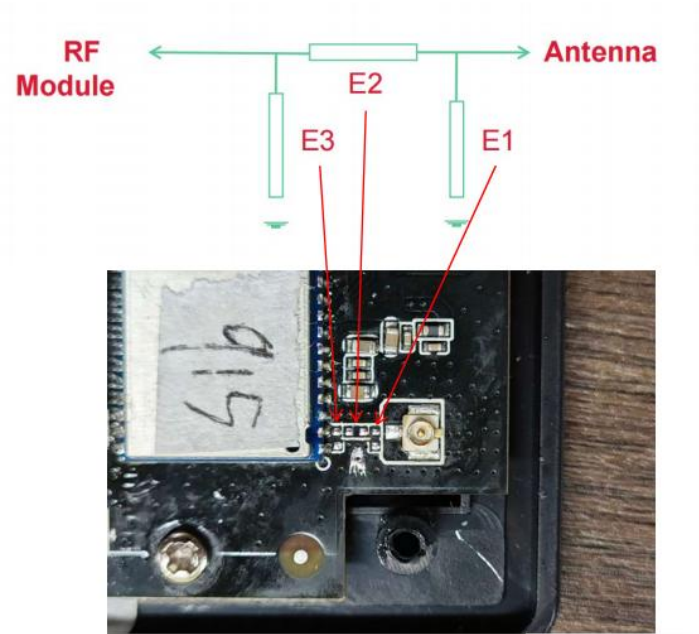
3.1 天线贴装示意

环境处理：保持原机器环境不变，需要固定同轴线位于前壳顶部凹槽内



3.2 匹配电路

• ANT1匹配电路示意图



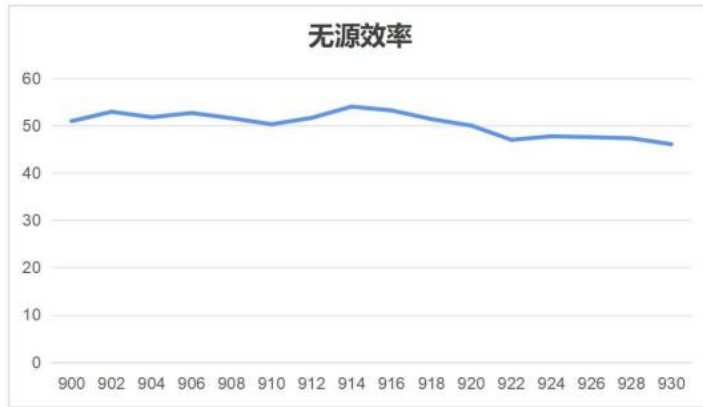
• 匹配值：

| Element  | Value |
|----------|-------|
| E1(0402) | NC    |
| E2(0402) | 0Ω    |
| E3(0402) | NC    |

样机示意

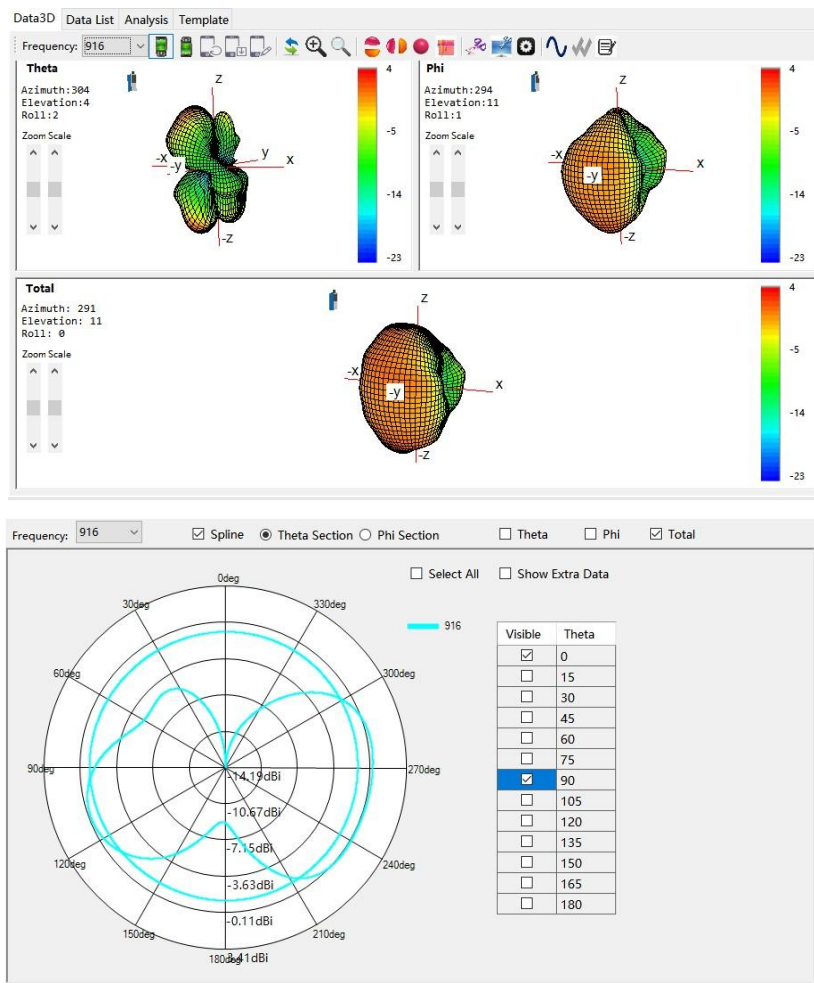
### 3.3 Efficiency& gain

#### • ANT1无源效率



| 频率  | 效率 (dB) | 增益 (dB) | 效率 (%) |
|-----|---------|---------|--------|
| 900 | 2.26    | -2.93   | 50.93  |
| 902 | 2.8     | -2.76   | 52.91  |
| 904 | 2.77    | -2.86   | 51.75  |
| 906 | 2.5     | -2.79   | 52.65  |
| 908 | 2.34    | -2.88   | 51.54  |
| 910 | 1.83    | -2.99   | 50.26  |
| 912 | 2.14    | -2.87   | 51.61  |
| 914 | 2.6     | -2.68   | 53.99  |
| 916 | 2.95    | -2.74   | 53.19  |
| 918 | 2.61    | -2.89   | 51.35  |
| 920 | 2.54    | -3.01   | 49.97  |
| 922 | 2.42    | -3.28   | 46.97  |
| 924 | 2.41    | -3.21   | 47.72  |
| 926 | 2.32    | -3.23   | 47.53  |
| 928 | 2.18    | -3.25   | 47.3   |
| 930 | 2       | -3.37   | 46.05  |

### 3.4 3D Pattern



4. Antenna Engineer drawing

