

# 专业天线服务商

深圳市飞敏科技有限公司  
SHENZHEN FEIMIN TECHNOLOGY CO., LTD.



# 天线测试报告

Antenna test report

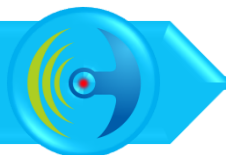
项目型号 ARPOBOT002

天线型号

测 试 许高富

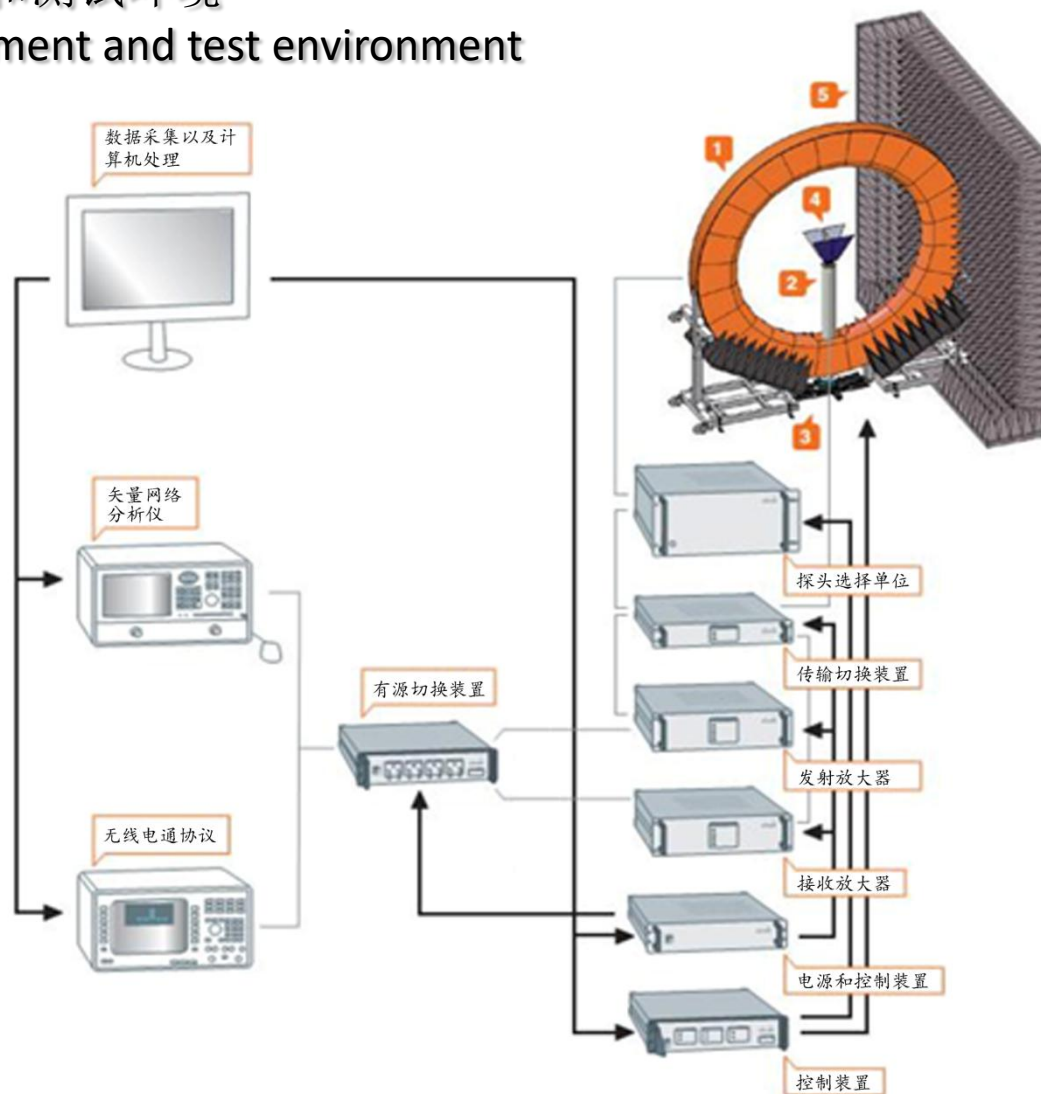
审 核 陈泽雄

日 期 2025-8-26



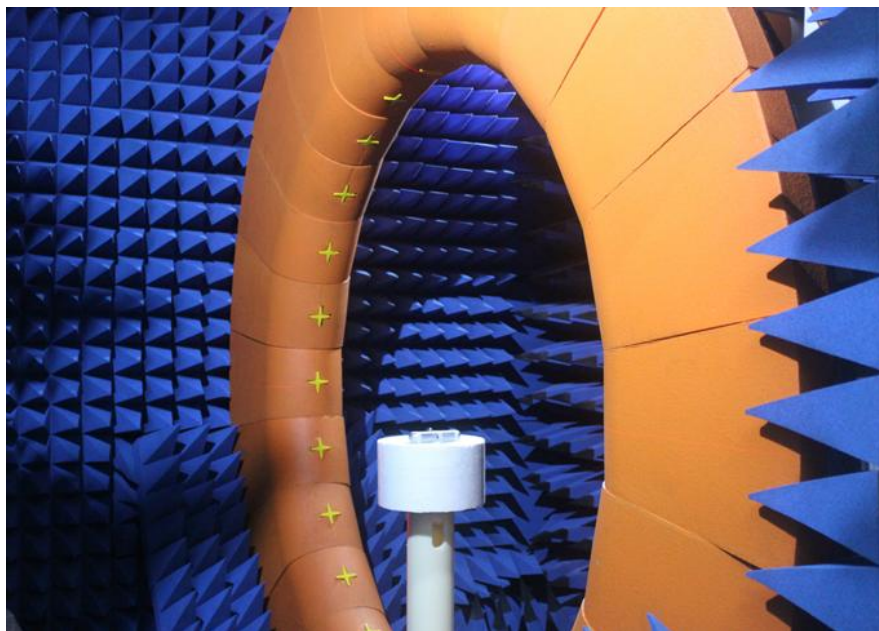
## 测试设备和测试环境

### Test equipment and test environment





## 测试设备 Test equipment



探头微波暗室

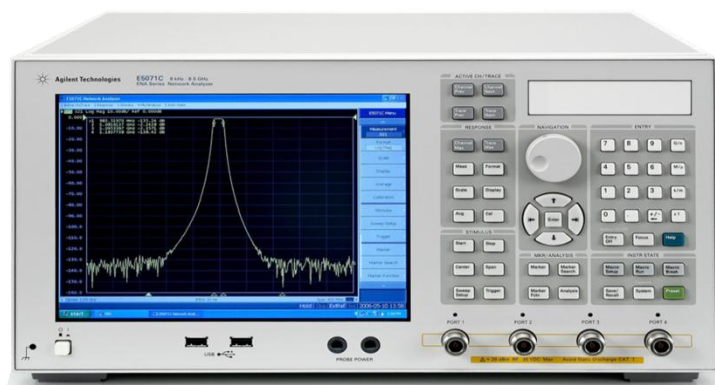
➤ 频率：0.4GHz至6GHz

## 主要测试指标

- ◆ 无源指标
- ◆ 增益
- ◆ 效率
- ◆ 3D方向图
- 有源指标
- TRP总辐射功率
- TIS总接收灵敏度



## 测试设备 Test equipment



Agilent E5071C矢量网络分析仪

- 频率：300 kHz至8.5GHz



R&S CMW500 宽带无线通信测试仪

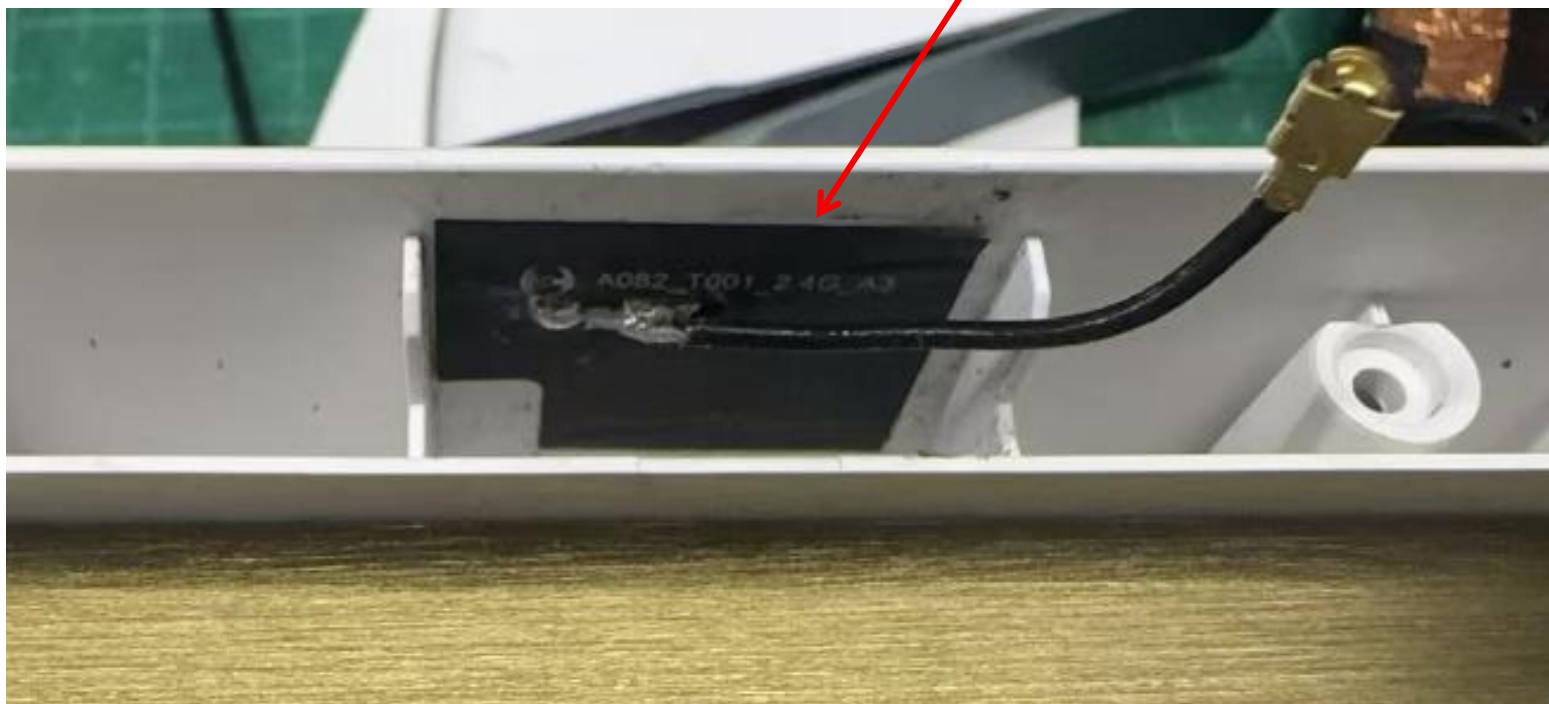
- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT

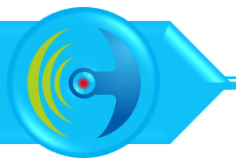


天线安装位置

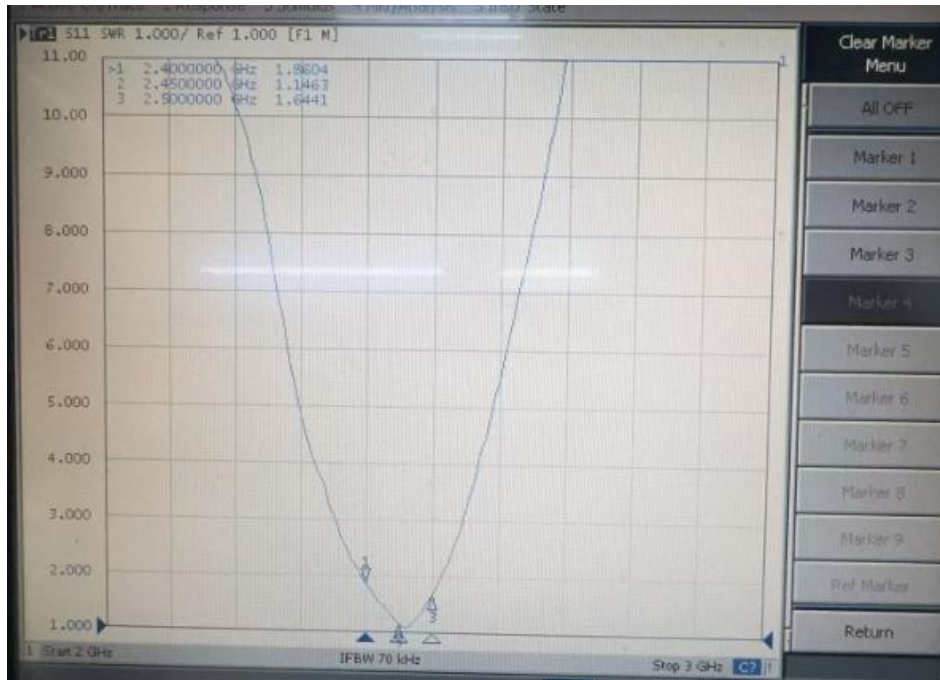
Passive antenna data

天线安装位置及方式

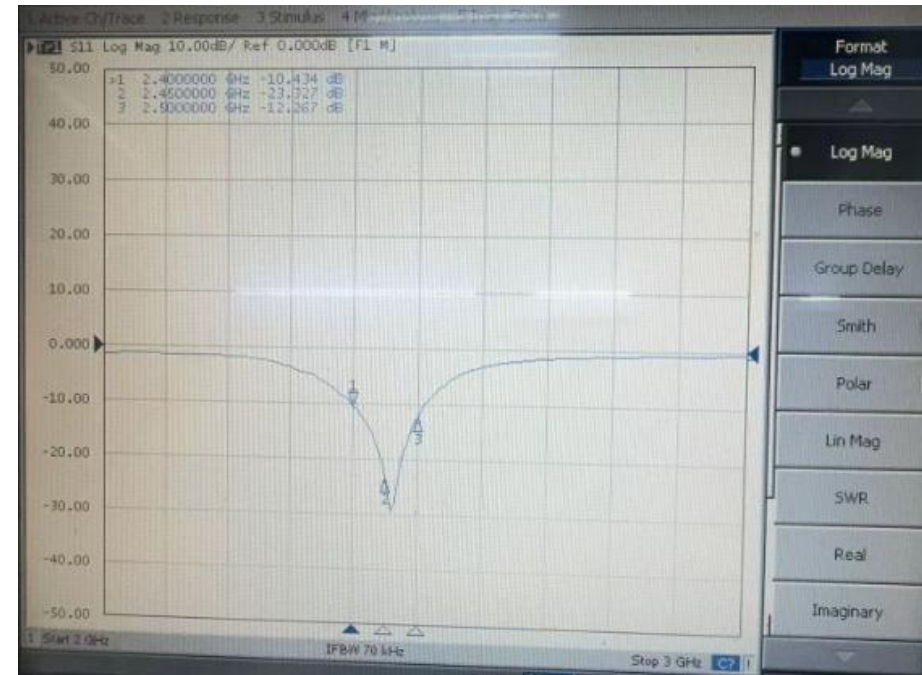




天线驻波比  
Antenna SWR



天线回波损耗  
Antenna Return loss

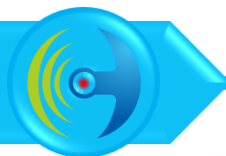




## 天线增益与效率

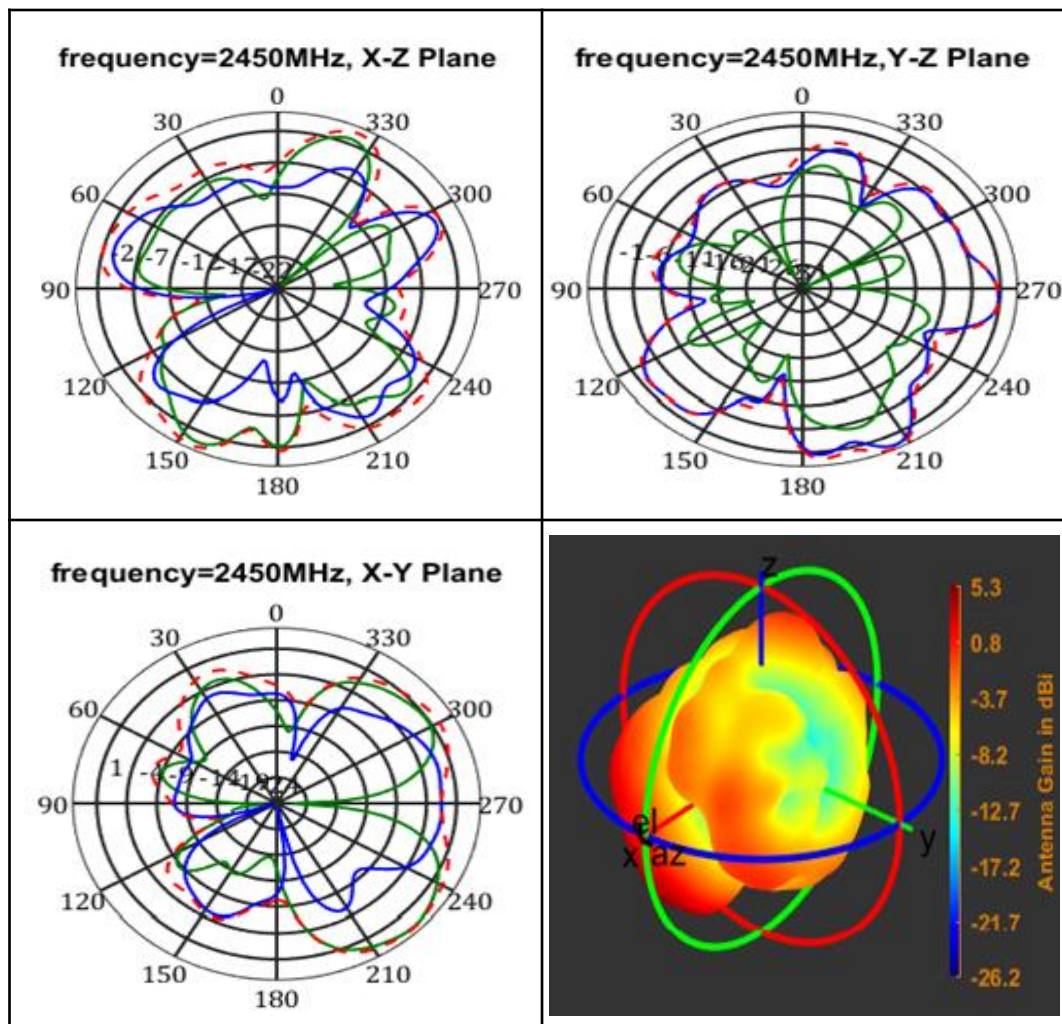
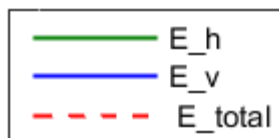
### Antenna gain and efficiency

| Freq(MHz) | Efficiency (%) | Gian(dBi) |
|-----------|----------------|-----------|
| 2400      | 47.73          | 2.87      |
| 2410      | 48.76          | 2.94      |
| 2420      | 50.72          | 3.08      |
| 2430      | 51.47          | 3.18      |
| 2440      | 52.87          | 3.02      |
| 2450      | 53.54          | 3.20      |
| 2460      | 52.05          | 3.05      |
| 2470      | 51.12          | 2.93      |
| 2480      | 49.81          | 2.86      |
| 2490      | 48.53          | 2.80      |
| 2500      | 46.88          | 2.79      |



## 天线辐射方向图

## Antenna Radiation Pattern





| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | 2 |      | 3   |    | 4  |  | 5                                                                                                                                                                                                                                              |                      | 6   |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---|------|-----|----|----|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|-------|------|-----------|----|----------------------|----|-------------------|------|----|----|------|--|---|----|--|---------|--|--|------|----|--|------|--|--|--|----|----|--|--|--|----|-----|----|----|
| 环保要求: <input checked="" type="checkbox"/> ROHS <input checked="" type="checkbox"/> REACH <input type="checkbox"/> 无                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |   |      |     |    |    |  | <h3>产品技术参数</h3> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>产品名称</td><td>FPC天线</td></tr><tr><td>油墨</td><td>哑光黑油</td></tr><tr><td>丝印</td><td>A082_T001_2.4G_A3</td></tr><tr><td>丝印颜色</td><td>白色</td></tr></table> |                      |     |       | 产品名称 | FPC天线     | 油墨 | 哑光黑油                 | 丝印 | A082_T001_2.4G_A3 | 丝印颜色 | 白色 |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 产品名称                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FPC天线             |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 油墨                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 哑光黑油              |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 丝印                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A082_T001_2.4G_A3 |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 丝印颜色                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 白色                |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| <p>背胶背断</p> <p>21.50±0.3mm</p> <p>17.70±0.3mm</p> <p>A082_T001_2.4G_A3</p> <p>35±2mm-1.13屏蔽线</p> <p>1代端子</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| <h3>深圳市飞敏科技有限公司</h3> <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>料号</td><td></td><td>品名</td><td>FPC天线</td><td>日期</td><td>2025.8.26</td></tr><tr><td>编号</td><td colspan="3">FM-S1845-ARPOBO-T002</td><td>设计</td><td></td></tr><tr><td>材料</td><td colspan="3">特殊工艺</td><td>审核</td><td></td></tr><tr><td colspan="3">共1页 第1页</td><td>文件编号</td><td>核准</td><td></td></tr><tr><td colspan="3">第一视角</td><td></td><td>单位</td><td>mm</td></tr><tr><td colspan="3"></td><td>比例</td><td>1:1</td><td>版本</td><td>A1</td></tr></table> |                   |   |      |     |    |    |  | 料号                                                                                                                                                                                                                                             |                      | 品名  | FPC天线 | 日期   | 2025.8.26 | 编号 | FM-S1845-ARPOBO-T002 |    |                   | 设计   |    | 材料 | 特殊工艺 |  |   | 审核 |  | 共1页 第1页 |  |  | 文件编号 | 核准 |  | 第一视角 |  |  |  | 单位 | mm |  |  |  | 比例 | 1:1 | 版本 | A1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   |      |     |    |    |  | 料号                                                                                                                                                                                                                                             |                      | 品名  | FPC天线 | 日期   | 2025.8.26 |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   |      |     |    |    |  | 编号                                                                                                                                                                                                                                             | FM-S1845-ARPOBO-T002 |     |       | 设计   |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   |      |     |    |    |  | 材料                                                                                                                                                                                                                                             | 特殊工艺                 |     |       | 审核   |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 共1页 第1页                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |   | 文件编号 | 核准  |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
| 第一视角                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |   |      | 单位  | mm |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   | 比例   | 1:1 | 版本 | A1 |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |   |      |     |    |    |  |                                                                                                                                                                                                                                                |                      |     |       |      |           |    |                      |    |                   |      |    |    |      |  |   |    |  |         |  |  |      |    |  |      |  |  |  |    |    |  |  |  |    |     |    |    |

**Thanks for your support!**  
**感谢您的支持!**

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