



manufacture:

any Address: No.1 Sankeng Industrial Zone, Qinghutou, Tangxia Town, Dongguan City

电话: 0769-38940168 传真: 0769-39010966 网址: http://rflink.net.cn

承认书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 共进

产品名称

PRODUCT NAME: 5G 外置天线 L=215MM

客户料号

CUSTOMER P/N:

仁丰料号

RenFeng P/N: 3020202221 REV:A

| | MANUFACTURER SIGNATURE | CUSTOMER SIGNATURE |
|--------------|---------------------------|-----------------------|
| CHECKED BY: | 熊美云 | |
| AUDITOR BY: | 肖玉鹏 | |
| APPROVED BY: | 姚定军 | |
| DATE: | 2025-03-13 | |



manufacture:

Dongguan RF Electronic Technology Co., Ltd

Address: No.1 Sankeng Industrial Zone, Qinghutou, Tangxia Town, Dongguan City

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Contents

| <i>Description</i> | <i>Page</i> |
|--------------------------------|-------------|
| 1、封面 Cover----- | 1 |
| 2、履历表 Resume----- | 2 |
| 3、目录 Catalogue----- | 3 |
| 4、规格表 Specification sheet----- | 4 |
| 5、成品图 Finished drawing----- | 5 |
| 6、包装图 Package drawing----- | 6 |
| 7、测试报告 Test report----- | 7-10 |



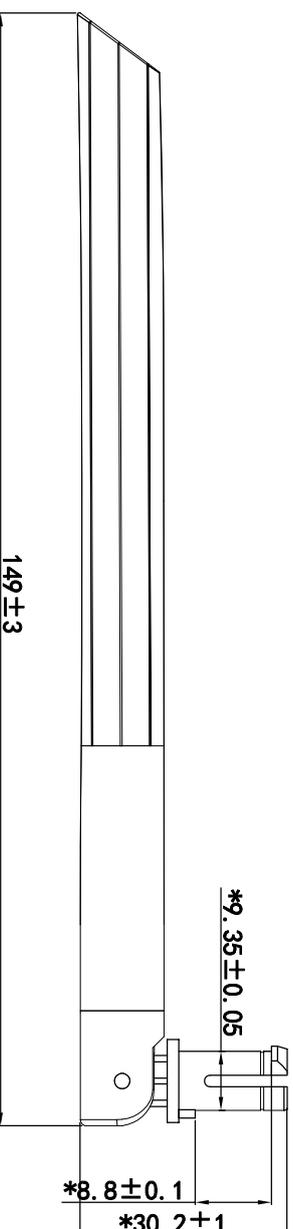
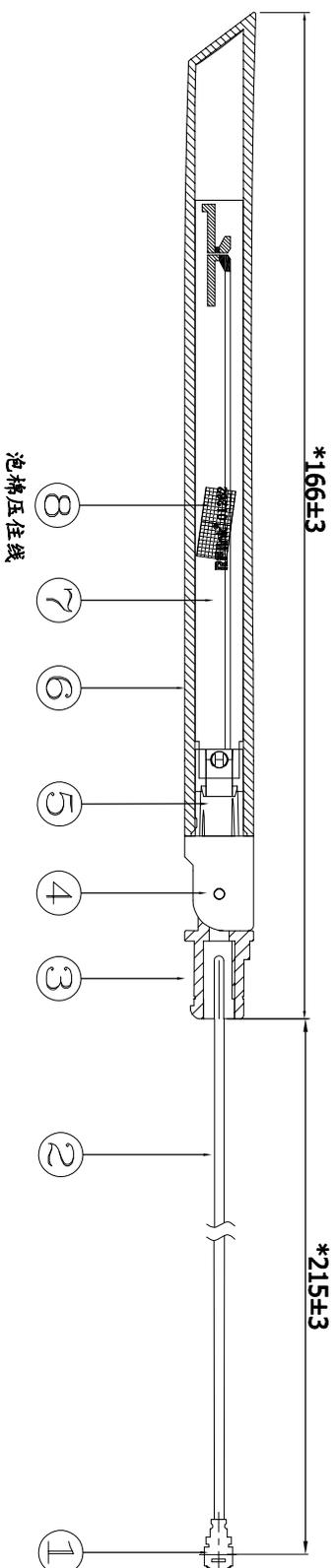


产品主要技术参数

Main technical specifications

| 主要技术指标 | | Main technical specifications | |
|--------------------------|--|-------------------------------|--|
| 频率范围 (MHZ) | 5150-5850 | Frequency Range (MHZ) | 5150-5850 |
| 中心频率 特性阻抗(Ω) | 50 | Impedance(Ω) | 50 |
| 增益(dBi) | 2.85 | Gain(dBi) | 2.85 |
| 反射损耗 | ≤ -10 | Return Loss(dB) | ≤ -10 |
| 输出电压 驻波比 | ≤ 1.92 | VSWR | ≤ 1.92 |
| 极化方式 | 垂直极化 | Polarization | Linear, Vertical |
| 方向性 | 全向性 | Radiation | Omni-directional |
| 连接方式 | 出线 | Connector Type | 出线 |
| 物理性能 | | Physical Properties | |
| 天线本体材 料 | ABS | Antenna Base | ABS |
| 工作温度 | $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$ | Operating Temp | $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$ |
| 保存温度 | $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$ | Storage Temp | $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$ |

| REV | DATE | DESCRIPTION |
|-----|------------|-------------|
| A | 2025-03-13 | NEW ISSUE |



| | | | | |
|---|------|---|---------------|--|
| 8 | 泡沫 | 1 | EVA; Black | |
| 7 | PCB | 1 | FR-4 | |
| 6 | 杆套 | 1 | TPEE; Black | |
| 5 | 上固定座 | 1 | PC+ABS; Black | |
| 4 | 铆钉 | 2 | POM; Black | |
| 3 | 下固定座 | 1 | PC; Black | |
| 2 | 线材 | 1 | φ1.37 Gray | |
| 1 | 端子 | 1 | Copper | |

| 尺寸范围 (mm) | 公差 (mm) | APPROVED |
|------------|---------|----------|
| 0L ≤ 6 | ±0.10 | |
| 6L ≤ 30 | ±0.10 | |
| 30L ≤ 50 | ±0.15 | |
| 50L ≤ 180 | ±0.20 | CHECKED |
| 180L ≤ 315 | ±0.25 | |
| 315L ≤ 800 | ±0.35 | DRAWING |

| CUSTOMER: | PART NO.: | PARTNAME: | R.F P/NO.: |
|-----------|-----------|---------------------|------------|
| | | RF Antenna Assembly | 3020202221 |

RF link

东莞市仁丰电子科技有限公司
RenFeng Electronic
technology Co., LTD.

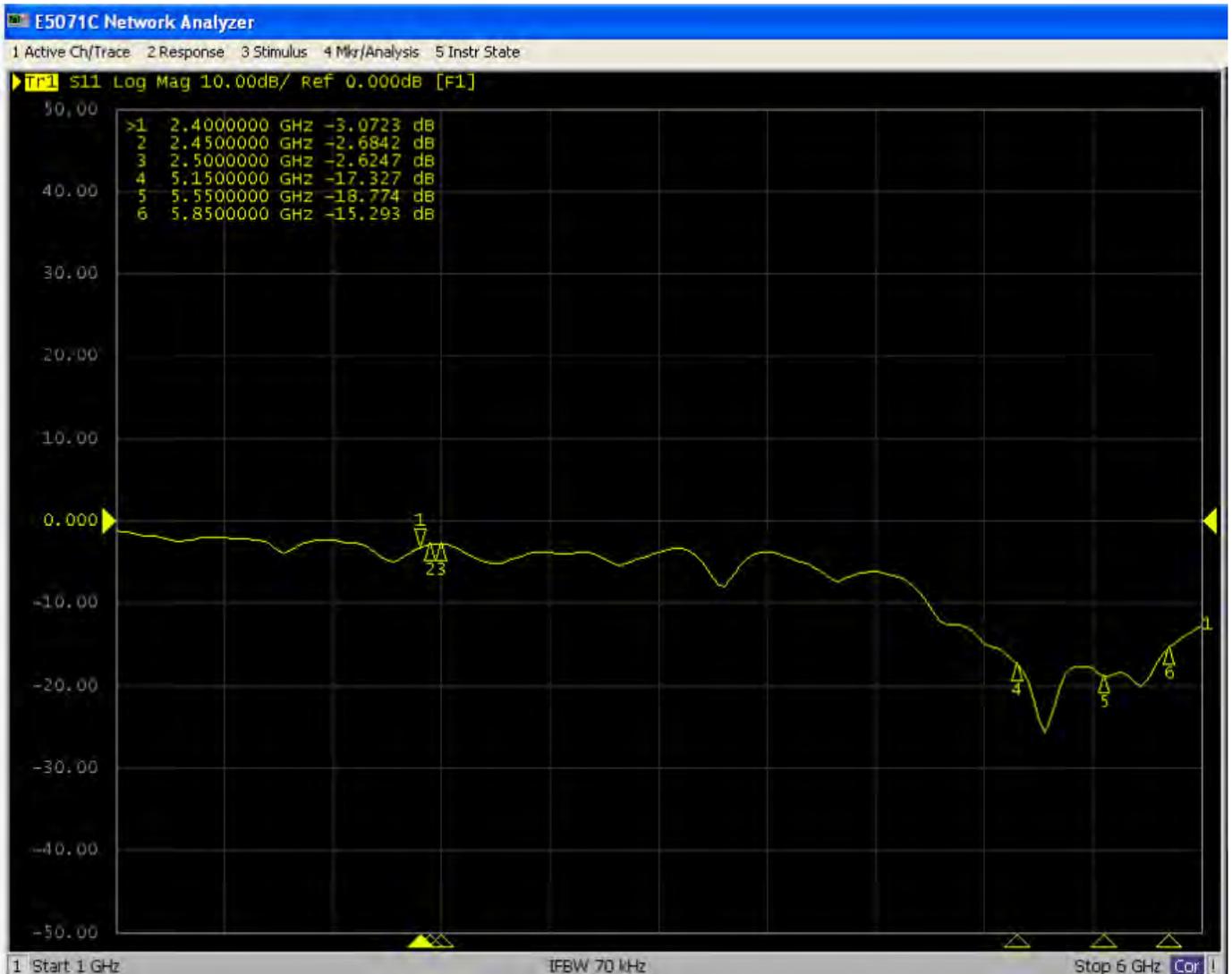
| NO. | DESCRIPTION | QTY | REMARK |
|-----|--------------------------------|-----|--------|
| 6 | 带公差尺寸为检验尺寸 产品符合环保RoHS2.0之要求 | | |

| 尺寸 | 公差 | 角度 |
|------------|-------|-------|
| 0L ≤ 6 | ±0.10 | ±0.5° |
| 6L ≤ 30 | ±0.10 | |
| 30L ≤ 50 | ±0.15 | |
| 50L ≤ 180 | ±0.20 | |
| 180L ≤ 315 | ±0.25 | |
| 315L ≤ 800 | ±0.35 | |

| REV | UNIT | SCALE | SIZE | SHEET |
|-----|------|-------|------|-------|
| | mm | 1:1 | A4 | 10F1 |

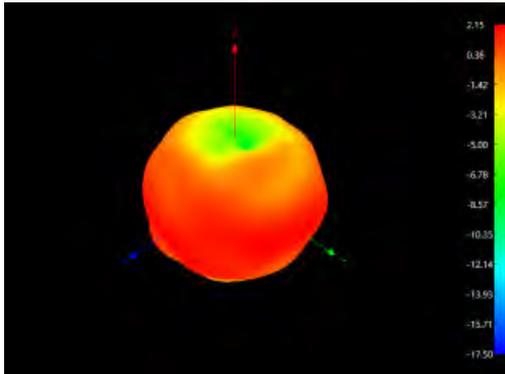
六、测试报告 (Testingreport) :

6.1网络分析仪测试报告 (Network analyzer test report)

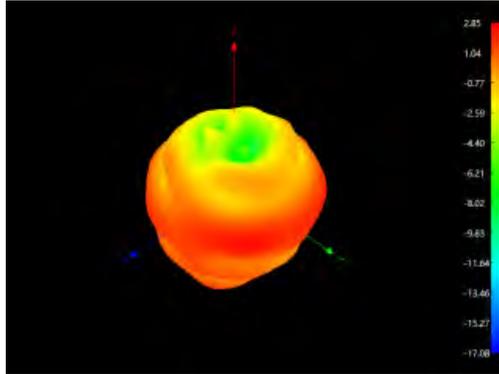


6.2 暗室3D、2DRadiationPattern

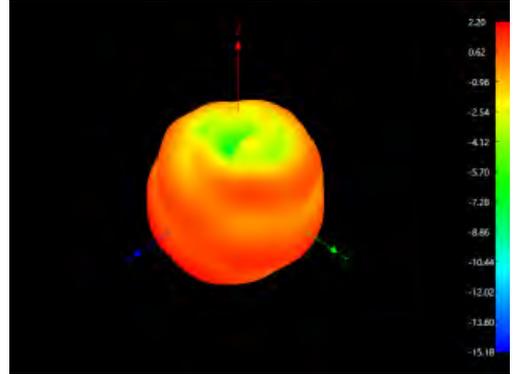
5150MHz



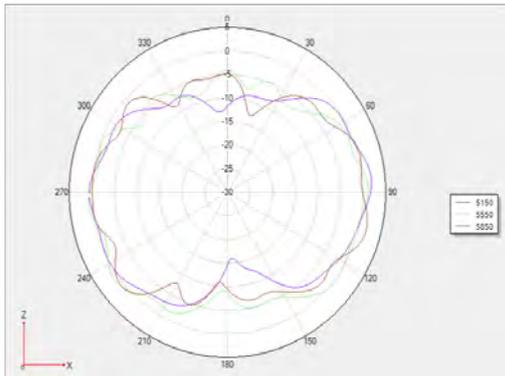
5550MHz



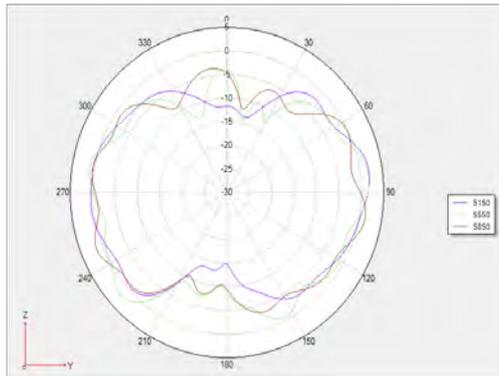
5850MHz



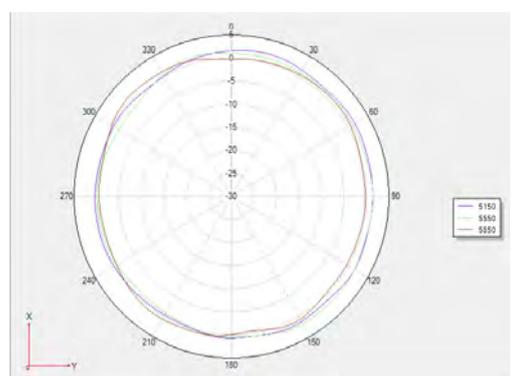
E1



E2



H





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| 5G | | |
|-----------------|----------------|-----------|
| Frequency / MHz | Efficiency / % | Gain/ dBi |
| 5150 | 74.51 | 2.15 |
| 5200 | 73.03 | 2.37 |
| 5250 | 73.51 | 2.16 |
| 5300 | 73.74 | 2.26 |
| 5350 | 73.34 | 2.68 |
| 5400 | 73.16 | 2.69 |
| 5450 | 74.01 | 2.19 |
| 5500 | 73.62 | 2.40 |
| 5550 | 70.68 | 2.85 |
| 5600 | 69.84 | 2.58 |
| 5650 | 67.76 | 2.51 |
| 5700 | 68.55 | 2.56 |
| 5750 | 67.30 | 2.48 |
| 5800 | 67.92 | 2.36 |
| 5850 | 67.12 | 2.20 |