

# 广州极飞科技股份有限公司

## 样品承认书

产品料号: 01-003-00470

产品版本: **A0**

产品名称: 带频控二合一天线

产品规格: **4G FPC 天线 1.13mm 灰色线 L=80mm+IPEX**

原料牌号: 2. 4G/5G/1575MHzFPC 天线 1.13mm 白/灰色  
线 L=100/85mm+IPEX

表面处理: 丝印

供 应 商: 东莞市海恒电子科技有限公司

| 极飞签核 |       |      |
|------|-------|------|
| 结构设计 | 可靠性质量 | 中试审批 |
|      |       |      |
| 说明:  |       |      |

| 供应商签核 |    |    |
|-------|----|----|
| 制作    | 审核 | 核准 |
| 邓文兵   | 胡超 | 陈鹏 |
| 说明:   |    |    |

Product Number: AN2450&1575-FPC01GX  
Product Name: Antenna

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- 1. Specification (规格)
- 2. Antenna - S Parameter Test Data (样品测试数据)
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- 4. Mechanical and Packing Drawing (图纸包装规范)

Revision History (变更履历)

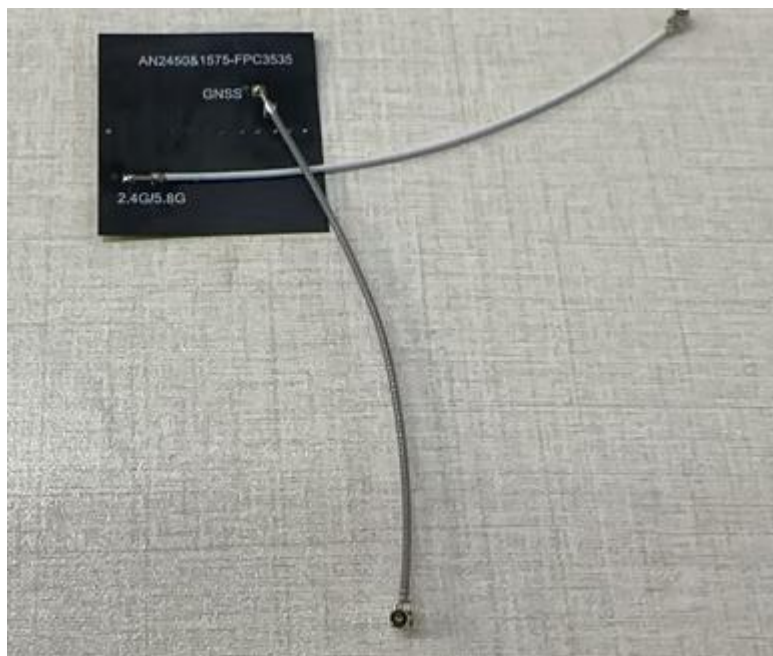
| Revision | Date      | Change Notification | Description |
|----------|-----------|---------------------|-------------|
| 1.0      | 2024.12.9 | 初版                  |             |
|          |           |                     |             |
|          |           |                     |             |
|          |           |                     |             |
|          |           |                     |             |
|          |           |                     |             |

Product Number: AN2450&1575-FPC01GX

Product Name: Antenna

## 1. Specification

### Sample Photo



|                              |                                   |
|------------------------------|-----------------------------------|
| Frequency 频率                 | 2400-2500MHz/5150-5850MHz/1575MHz |
| S.W.R. 驻波比                   | <= 2.0                            |
| Antenna Gain 增益              | 2.98dBi /2.94dBi /2.83dBi         |
| Polarization 极化方式            | Linear                            |
| Impedance 阻抗                 | 50 Ohm                            |
| Cable Type 线材规格              | OD1.13mm, white/gray              |
| Connector Type 连接器规格         | I-PEX                             |
| Pull Test 拉力                 | 1KG                               |
| Salt Spray 盐雾                | 24H                               |
| Storage Temperature 存储温度     | - 40℃ ~ +80 ℃                     |
| Operation Temperature 工作温度   | - 40℃ ~ +80 ℃                     |
| Environment Protections 环保要求 | RoHS                              |

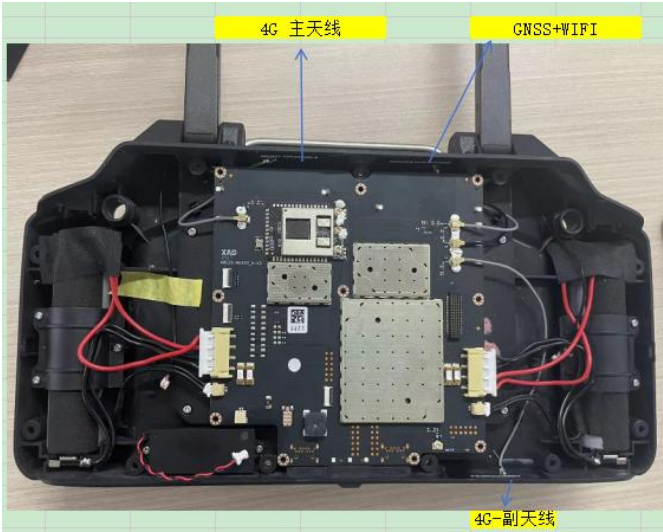
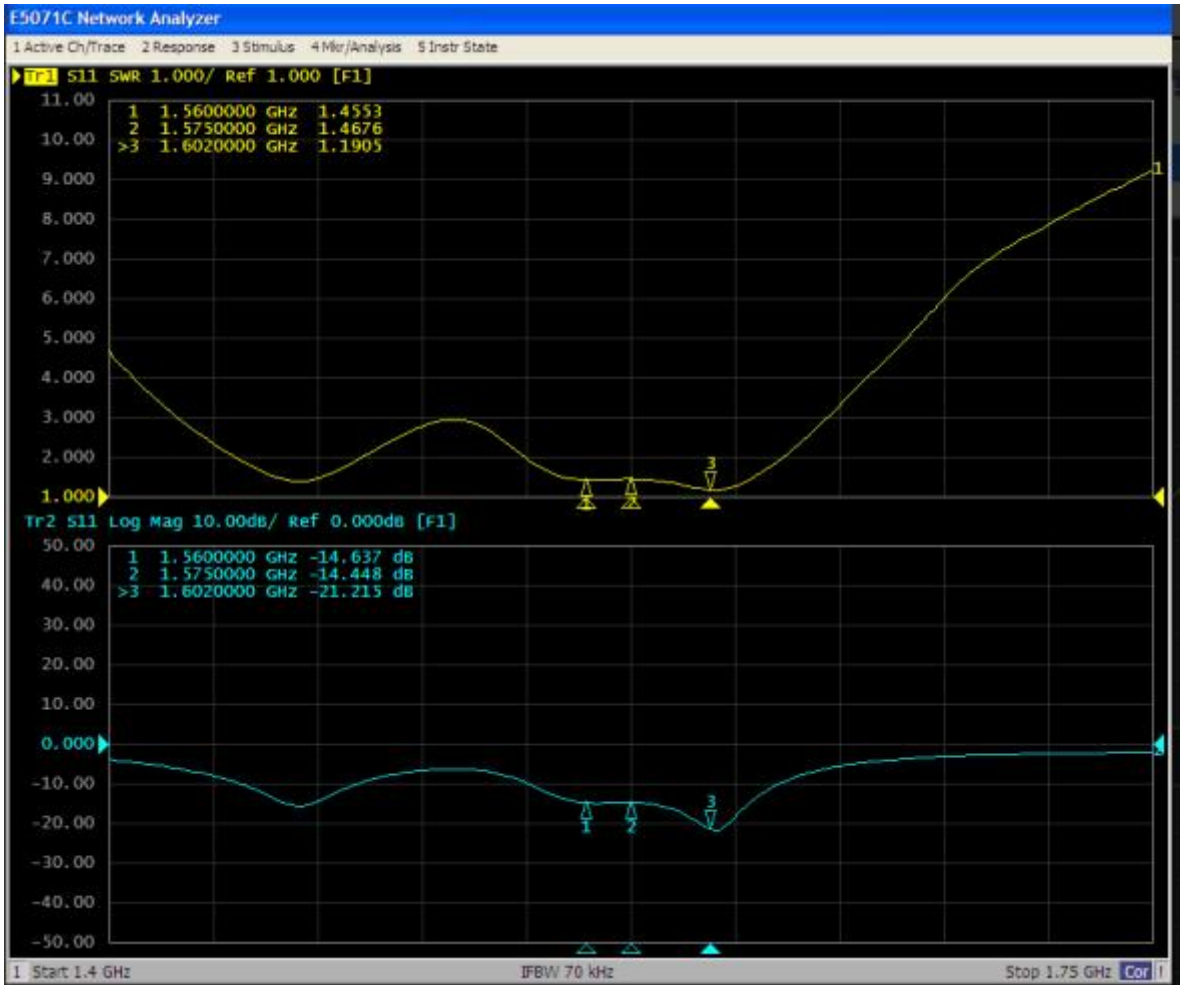
Product Number: AN2450&1575-FPC01GX

Product Name: Antenna

## 2. Antenna - S Parameter Test Data



Product Number: AN2450&1575-FPC01GX  
Product Name: Antenna



Product Number: AN2450&1575-FPC01GX

Product Name: Antenna

### 3. Antenna - Radiation Pattern Test Data

| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Gain (dBi)      | 2.56   | 2.62   | 2.71   | 2.80   | 2.85   | 2.98   | 2.79   | 2.64   | 2.57   | 2.48   | 2.51   |
| Efficiency (%)  | 48.86  | 49.34  | 51.73  | 53.05  | 53.17  | 53.11  | 52.63  | 53.88  | 52.26  | 50.94  | 51.21  |

| 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5150.0 | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| 2.35   | 2.40   | 2.62   | 2.74   | 2.52   | 2.68   | 2.35   | 2.42   | 2.49   | 2.36   | 2.39   | 2.80   | 2.94   | 2.85   | 2.79   |
| 48.25  | 49.52  | 48.47  | 48.84  | 49.89  | 49.91  | 49.83  | 48.40  | 47.76  | 46.83  | 47.33  | 49.58  | 50.25  | 51.36  | 50.20  |

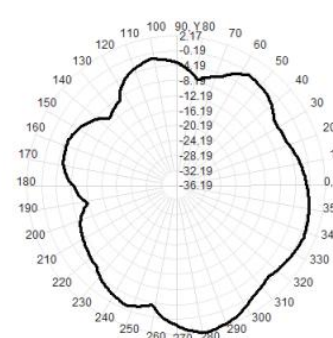
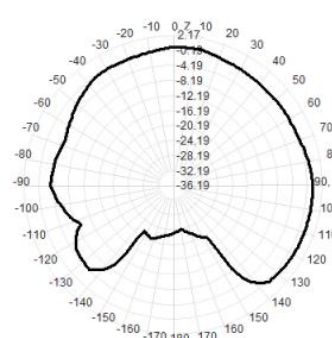
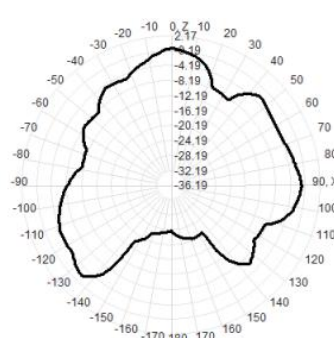
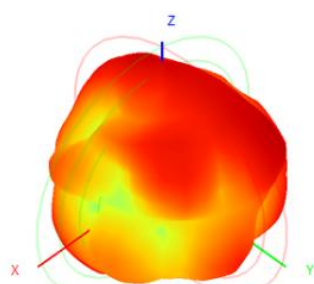
| Frequency ID    | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 1560.0 | 1565.0 | 1570.0 | 1575.0 | 1580.0 | 1585.0 | 1590.0 | 1595.0 | 1600.0 | 1605.0 |
| Gain (dBi)      | 2.31   | 2.45   | 2.49   | 2.45   | 2.44   | 2.33   | 2.38   | 2.45   | 2.47   | 2.83   |
| Efficiency (%)  | 50.25  | 51.88  | 52.76  | 53.72  | 53.85  | 52.47  | 52.61  | 51.87  | 51.49  | 50.35  |

XZ

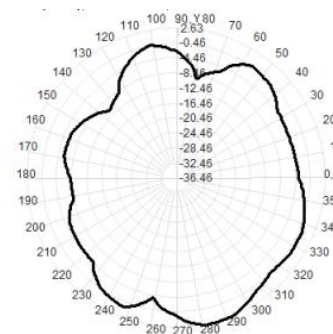
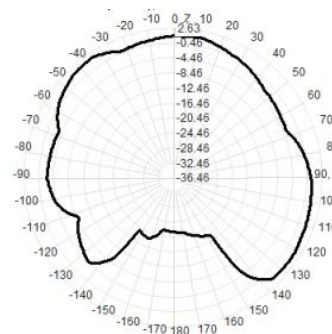
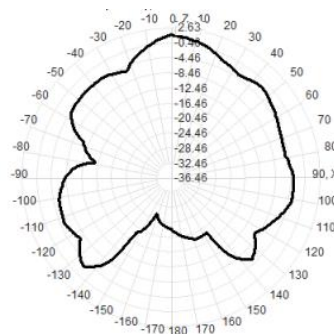
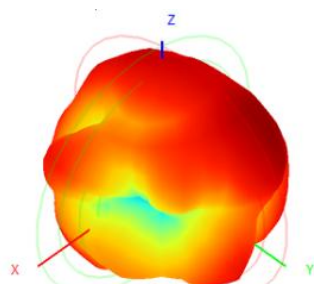
YZ

XY

2400MHz



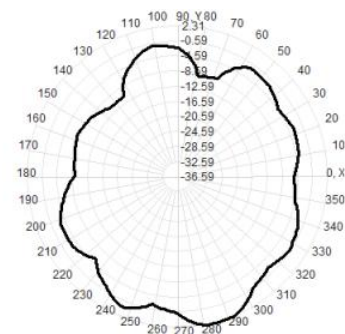
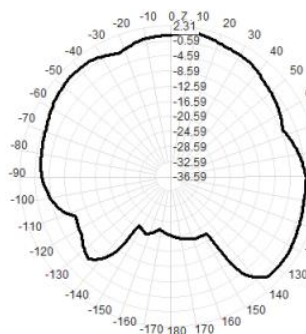
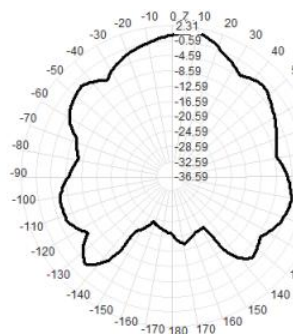
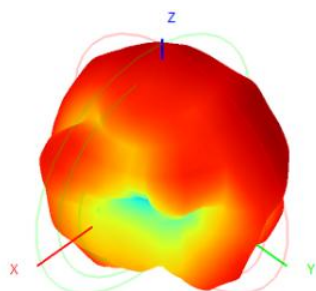
2450MHz



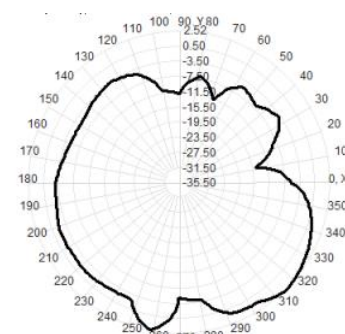
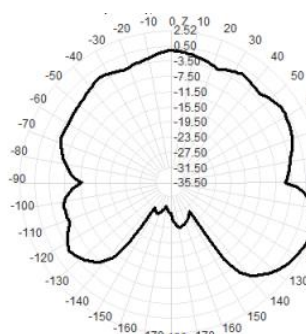
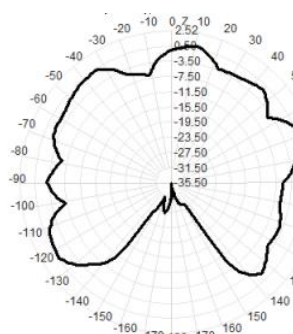
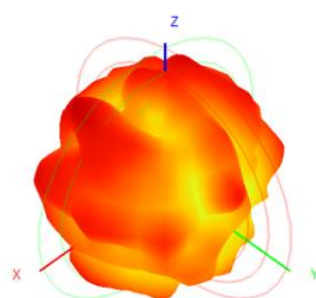
**Product Number: AN2450&1575-FPC01GX**

**Product Name: Antenna**

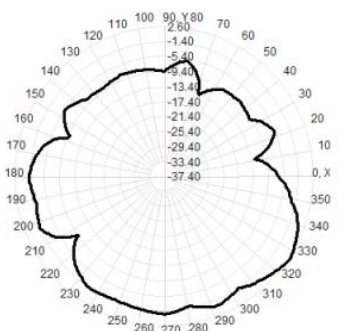
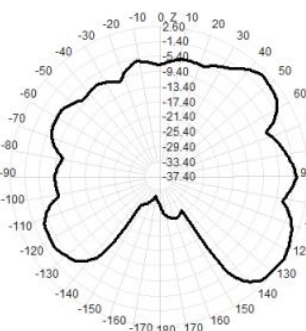
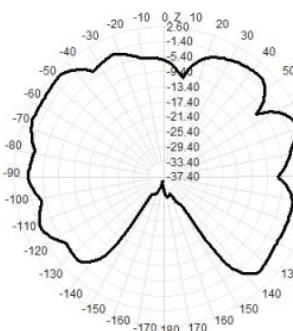
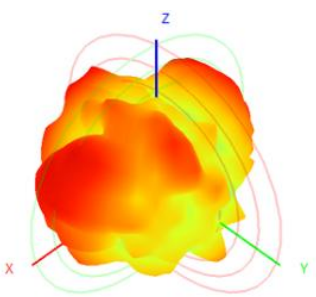
**2500MHz**



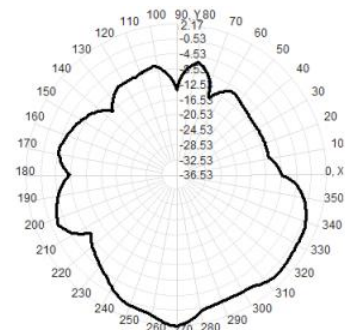
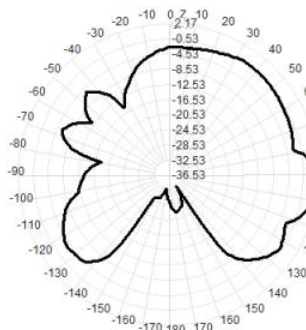
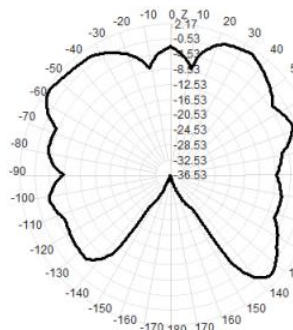
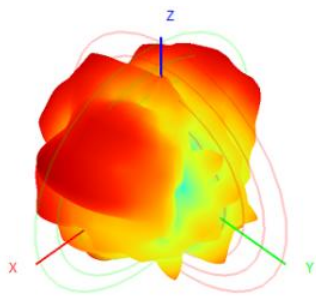
**5150MHz**



**5550MHz**



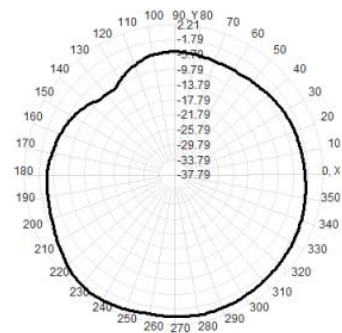
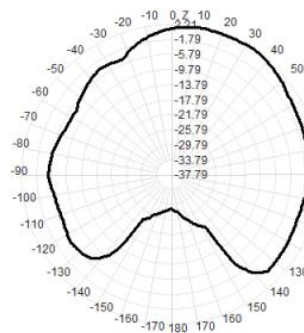
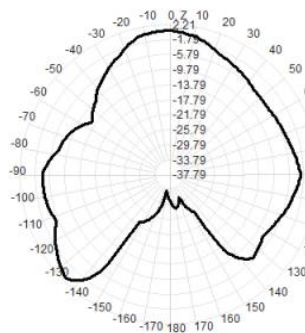
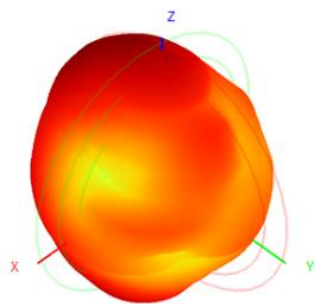
**5850MHz**



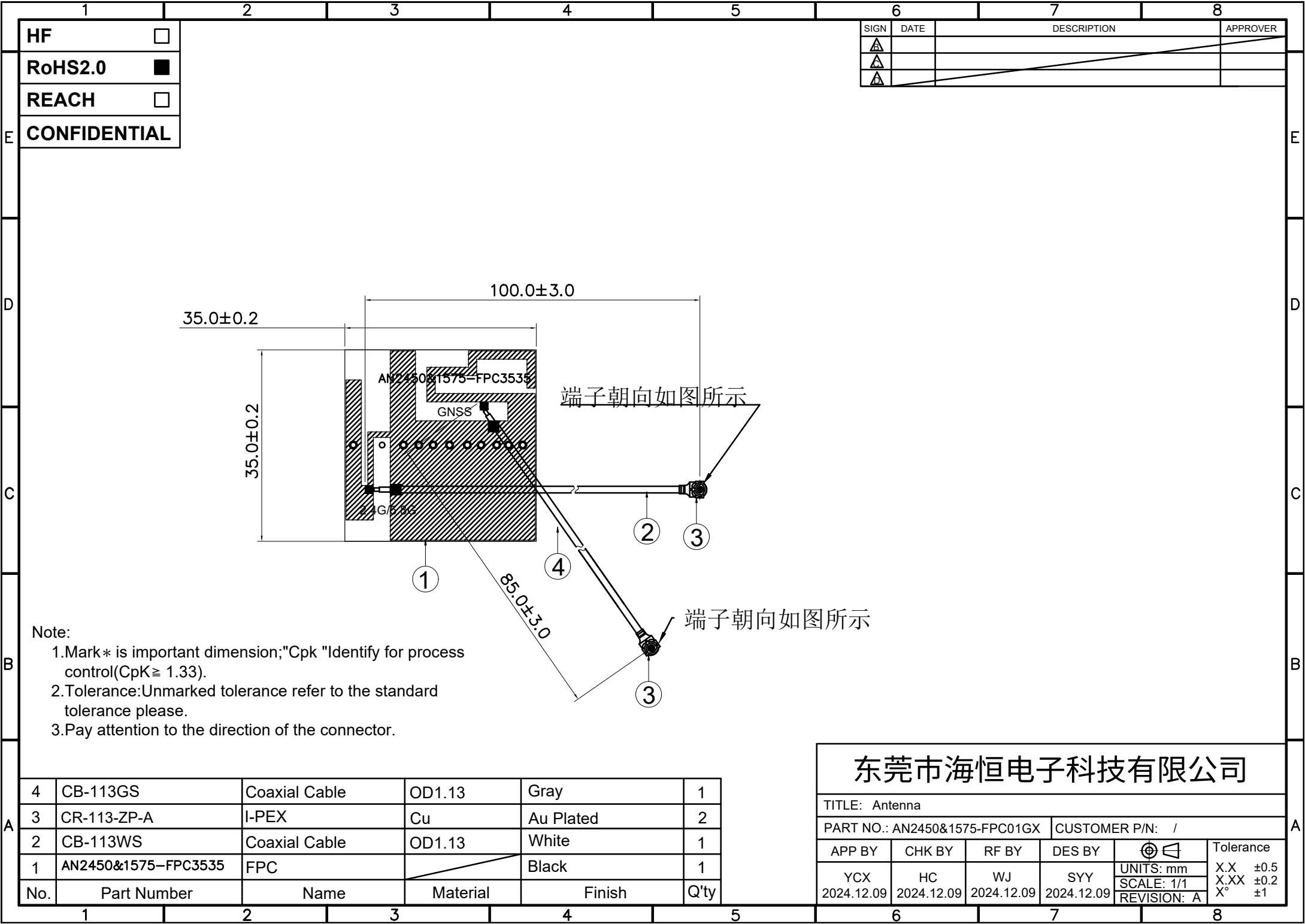
**Product Number: AN2450&1575-FPC01GX**

**Product Name: Antenna**

**1575MHz**



**4. Mechanical Drawing    See attached files**



HF ☐

RoHS2.0 ☒

REACH ☐

CONFIDENTIAL

| SIGN                                | DATE | DESCRIPTION | APPROVER |
|-------------------------------------|------|-------------|----------|
| <input checked="" type="checkbox"/> |      |             |          |
| <input checked="" type="checkbox"/> |      |             |          |
| <input checked="" type="checkbox"/> |      |             |          |

- Note:
- 1.Mark\* is important dimension;"Cpk "Identify for process control(CpK≥ 1.33).
  - 2.Tolerance:Unmarked tolerance refer to the standard tolerance please.
  - 3.Pay attention to the direction of the connector.

|     |                     |               |          |           |      |
|-----|---------------------|---------------|----------|-----------|------|
| 4   | CB-113GS            | Coaxial Cable | OD1.13   | Gray      | 1    |
| 3   | CR-113-ZP-A         | I-PEX         | Cu       | Au Plated | 2    |
| 2   | CB-113WS            | Coaxial Cable | OD1.13   | White     | 1    |
| 1   | AN2450&1575-FPC3535 | FPC           |          | Black     | 1    |
| No. | Part Number         | Name          | Material | Finish    | Q'ty |

东莞市海恒电子科技有限公司

TITLE: Antenna

PART NO.: AN2450&1575-FPC01GX

CUSTOMER P/N: /

|            |            |            |            |             |           |
|------------|------------|------------|------------|-------------|-----------|
| APP BY     | CHK BY     | RF BY      | DES BY     |             | Tolerance |
| YCX        | HC         | WJ         | SY         | UNITS: mm   | X.X ±0.5  |
| 2024.12.09 | 2024.12.09 | 2024.12.09 | 2024.12.09 | SCALE: 1/1  | X.XX ±0.2 |
|            |            |            |            | REVISION: A | X° ±1     |

# 产品包装规范

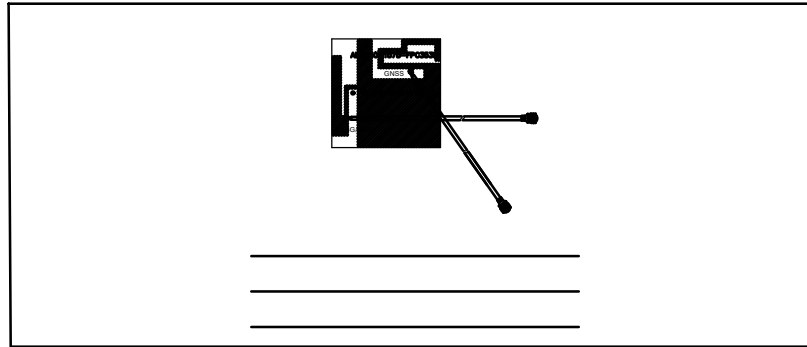
## PACKING CRITERION

Date: 2024.12.09

Page: 1 of 1

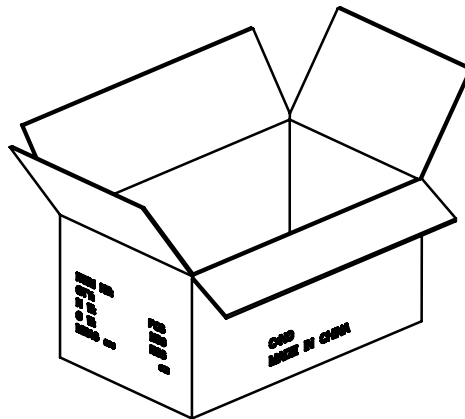
|                                   |                |
|-----------------------------------|----------------|
| Part Number : AN2450&1575-FPC01GX | Revision : A   |
| Name: Antenna                     | Customer : ALL |

1 . Enter PE bag。



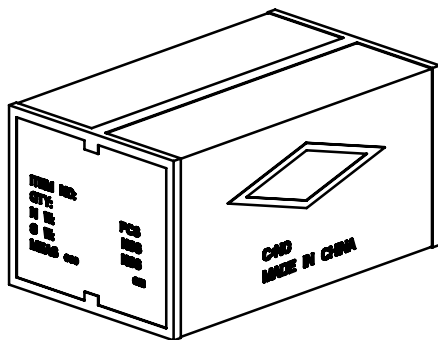
100pcs/ PE bag

2.PACKING 。

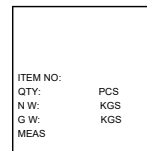


8000pcs/Carton

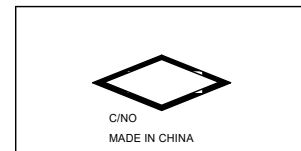
3. SEALING 。



SIDE



FRONT



APPROVED BY : YCX      CHECKED BY : HC      DESIGNED BY : SY Y