

# SPECIFICATION FOR APPROVAL

|                |                                                                          |
|----------------|--------------------------------------------------------------------------|
| CUSTOMER :     | 小佩网络科技(上海)有限公司                                                           |
| PART NAME :    | T7_lite                                                                  |
| PART NO. :     | 2.4/5g wifi天线                                                            |
| NO. :          | XP-06-A0                                                                 |
| Antenna brand: | HS                                                                       |
| address:       | No. 1963 Zhenxin East Road, Zhangpu Town, Kunshan City, Jiangsu Province |
| REV. :         | V1.0                                                                     |

|                 |                            |                       |
|-----------------|----------------------------|-----------------------|
|                 | MANUFACTURERR<br>SIGNATURE | CUSTOMER<br>SIGNATURE |
| APPROVED<br>BY: |                            |                       |
| DATE:           |                            |                       |

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# Antenna Assembly

## Specification

### 1. Electrical Properties

|                          |              |
|--------------------------|--------------|
| 1.1 Frequency range..... | 2.4G & 5G    |
| 1.2 Impedance.....       | 50Ω Norminal |
| 1.3 VSWR .....           | <2           |
| 1.4 Antenna type.....    | PIFA         |
| 1.5 Radiation.....       | Omni         |
| 1.6 Gain(Peak).....      | 3 dBi        |
| 1.7 Polarization.....    | Linear       |
| 1.8 Admitted Power.....  | 1W           |
| 1.9 Connector.....       | Ipex         |

### 2. Physical Properties

|                              |             |
|------------------------------|-------------|
| 2.1 Working Temperature..... | -40°C~+85°C |
| 2.2 Storage Temperature..... | -40°C~+85°C |

# **Antenna Design for T7\_Lite**

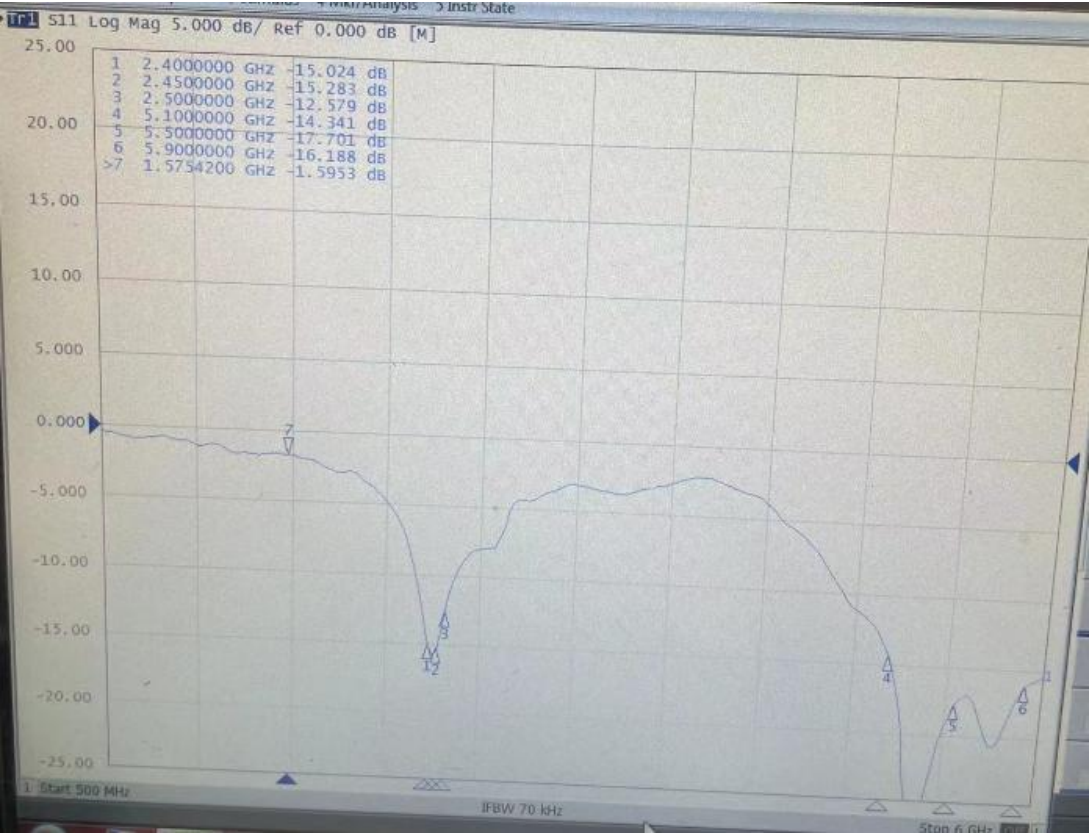
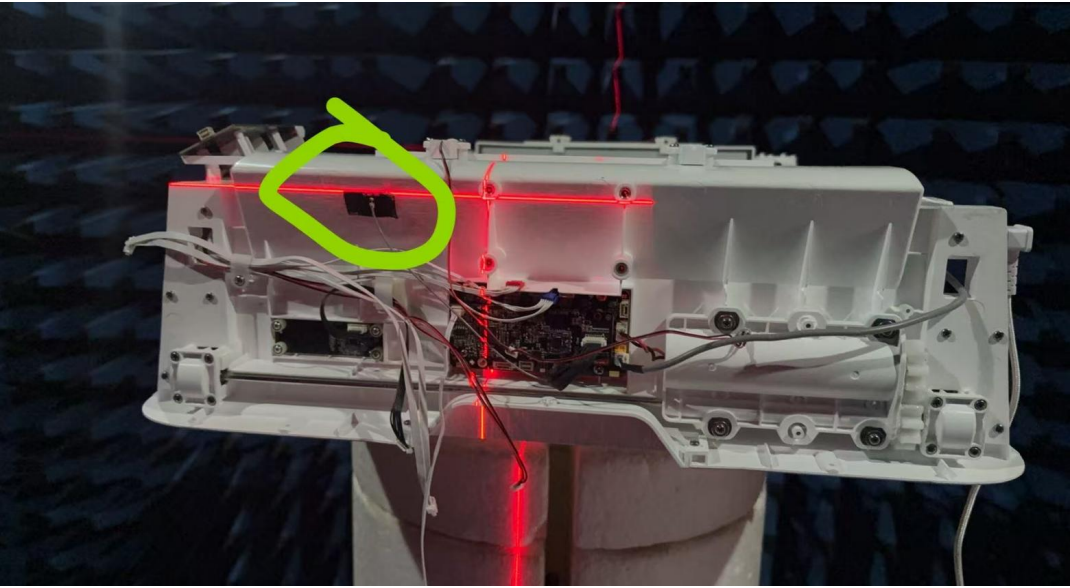
## **2.4G & 5G WIFI**

|                                     |                   |
|-------------------------------------|-------------------|
| <b>1<sup>st</sup> Released Date</b> | <b>10/04/2026</b> |
| <b>Author</b>                       | <b>tom</b>        |
| <b>Review By</b>                    | <b>van</b>        |

# Revised History

[illegible]

# 1. Ant S11 passive test results

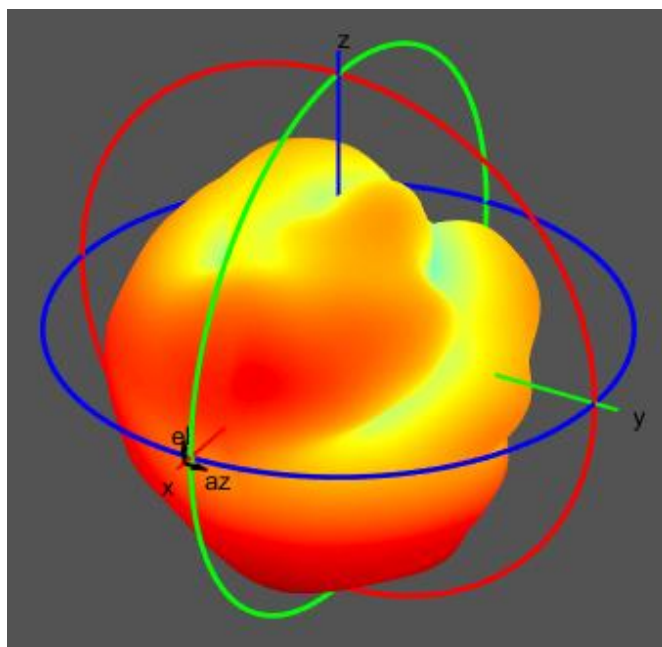


## 2. Passive Data

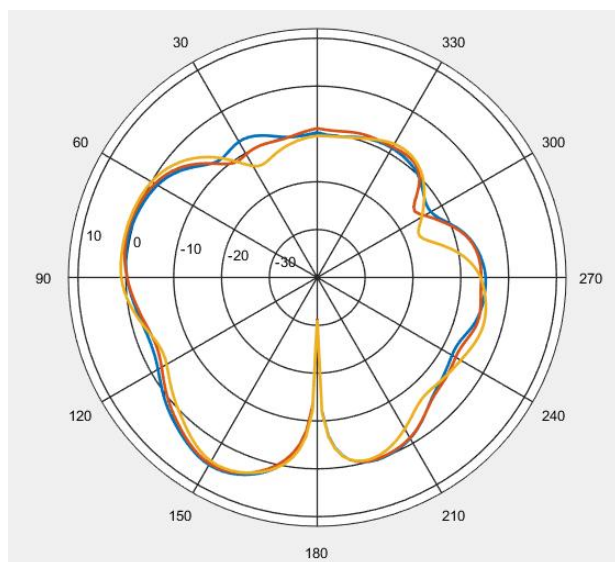
| Frequency<br>(MHz) | Gain(dBi) | Efficiency (%) |
|--------------------|-----------|----------------|
| 2400               | 3.01      | 73.25          |
| 2410               | 3.03      | 74.38          |
| 2420               | 3.11      | 73.29          |
| 2430               | 3.15      | 75.05          |
| 2440               | 3.16      | 76.06          |
| 2450               | 3.25      | 77.14          |
| 2460               | 3.21      | 75.93          |
| 2470               | 3.26      | 76.25          |
| 2480               | 3.24      | 75.29          |
| 2490               | 3.09      | 76.14          |
| 2500               | 3.11      | 75.25          |
| 5150               | 3.05      | 72.02          |
| 5250               | 3.29      | 71.82          |
| 5350               | 3.35      | 73.62          |
| 5450               | 3.36      | 74.25          |
| 5550               | 3.33      | 73.82          |
| 5650               | 3.42      | 72.23          |
| 5750               | 3.05      | 72.59          |
| 5850               | 3.19      | 72.14          |

# 3. patterns

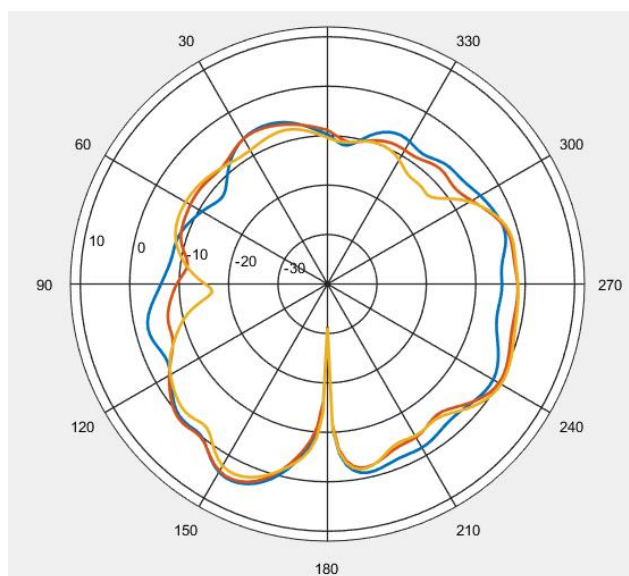
## 3.1 2.4G



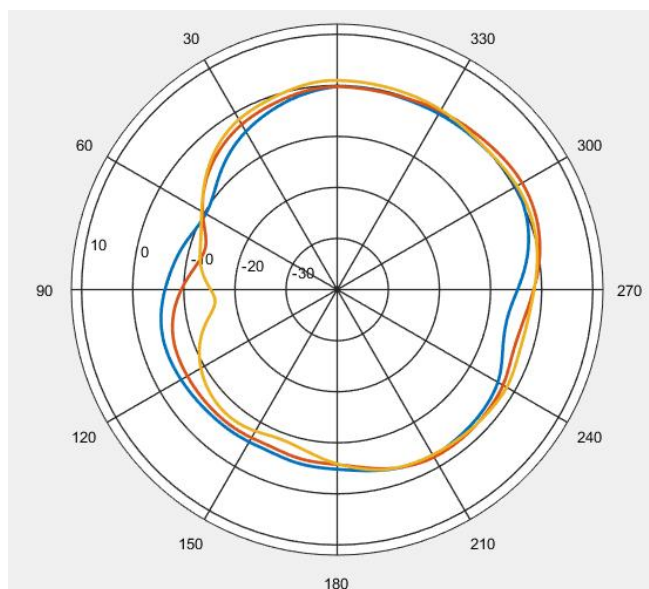
E1



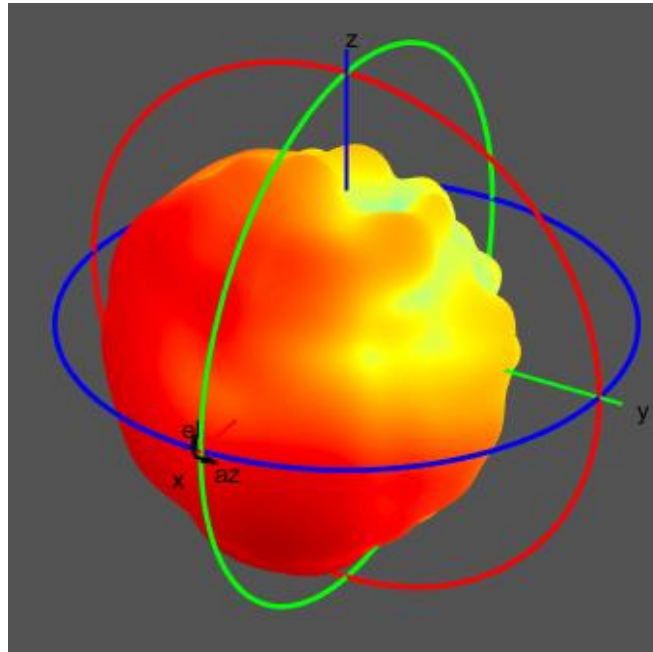
E2



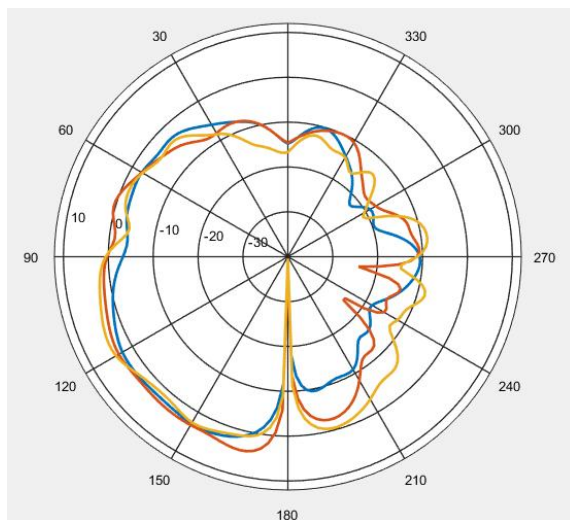
H



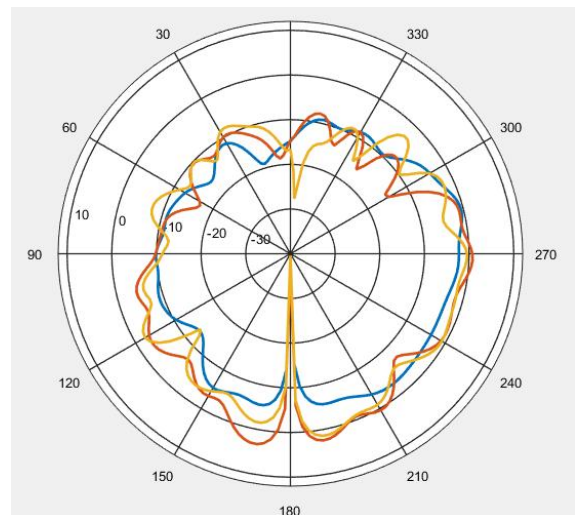
## 3.2 5G



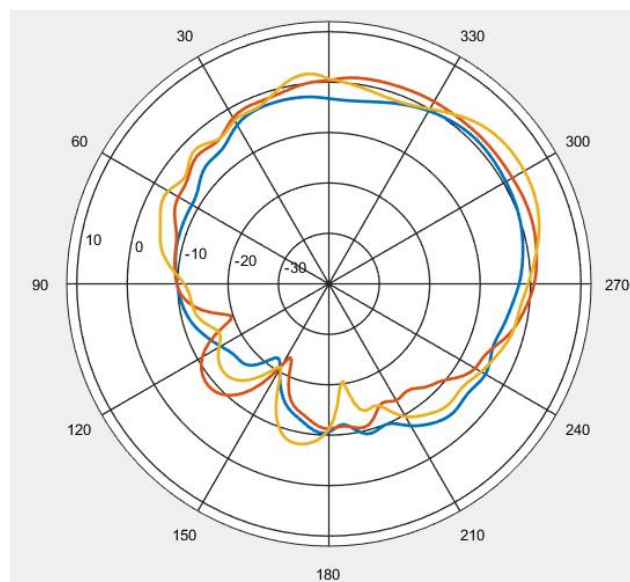
E1



E2

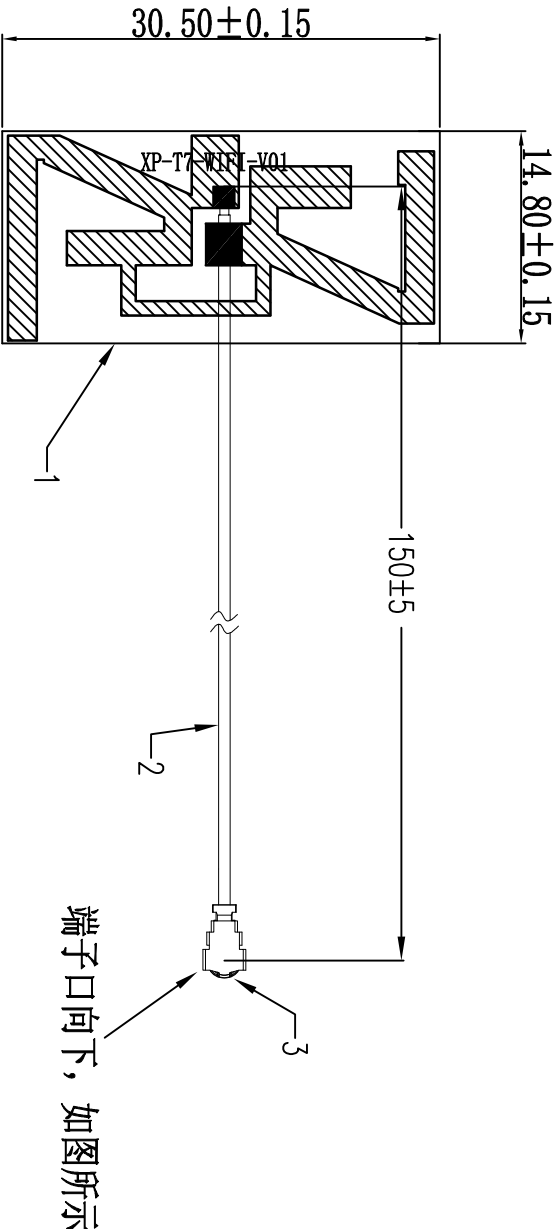


H



# 4. OTA

| wifi         | channels | TRP (dBm) | TIS (dBm) |
|--------------|----------|-----------|-----------|
| 2.4G 11b 11M | 1        | 17.32     | -86.67    |
|              | 7        | 17.26     | -87.01    |
|              | 13       | 17.39     | -86.9     |
| 5G 11a 54M   | 36       | 16.67     | -74.74    |
|              | 100      | 16.73     | -74.83    |
|              | 165      | 16.7      | -74.79    |



备注:

1. 标注“\*”为重点尺寸，未标公差尺寸按照±0.15检测
2. 未标注尺寸请依图纸。
3. 符合ROHS
4. 出货方式：单片出货

| 序号 | 工艺要求 | 规格                 | 数量 | 备注 |
|----|------|--------------------|----|----|
| 3  | 端子   | 一代端子               | 1  |    |
| 2  | 同轴线  | Ø1.13 黑色 L=120mm   | 1  |    |
| 1  | FPC  | 0.56Z 电解铜 0.5MM PI | 1  |    |

| NO. | SORT | SPECIFICATION | Q'TY | VENDOR |
|-----|------|---------------|------|--------|
| 1   |      |               |      |        |

| ECN NO        | 版本 | 变更内容 | 日期 | 确认 |
|---------------|----|------|----|----|
| DIMENSIONS    |    |      |    |    |
| 客户名称:         |    |      |    |    |
| 料号: XP-06-A0  |    |      |    |    |
| 产品名称: T7 WIFI |    |      |    |    |
| 图: TUM        |    |      |    |    |
| 制: 图: TUM     |    |      |    |    |
| 审核: N/A       |    |      |    |    |
| 版: A0         |    |      |    |    |
| 次: 1/1        |    |      |    |    |
| 日期: 2026.3.9  |    |      |    |    |
| 比例: 1:1       |    |      |    |    |
| 校: TUM        |    |      |    |    |
| 接准:           |    |      |    |    |

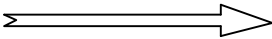
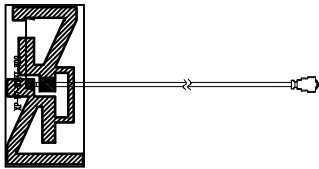
产品包装规范

日期: 2025.11.21

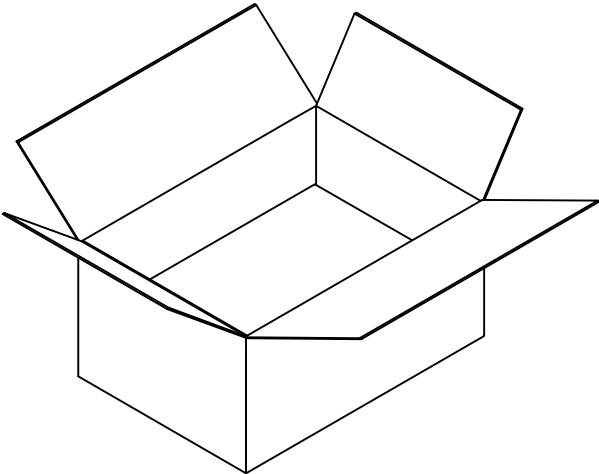
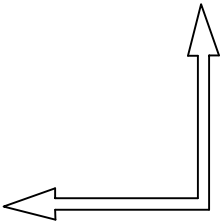
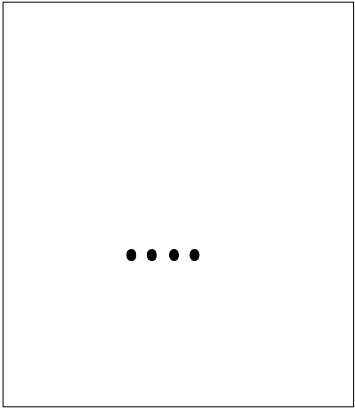
page: 1 of 1

|             |       |
|-------------|-------|
| 成品类型: FPC天线 | 版本: A |
|             | 客户:   |

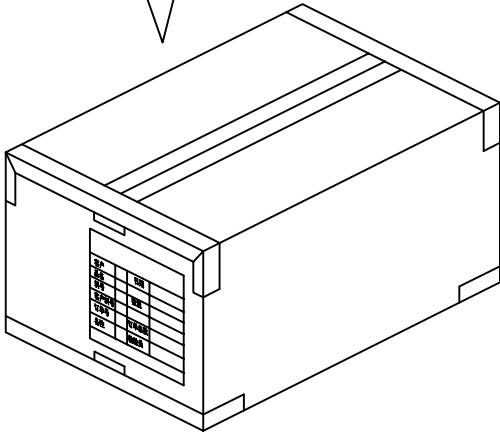
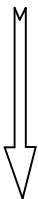
一: 成品天线



二: 用PE袋包装, 一袋装50pcs.



三: 装一箱, 一箱装12000PCS (以实际包装为准)



四: 封箱, 外箱贴我司生产标签和 ROHS标签.

批准: \_\_\_\_\_

确认: \_\_\_\_\_ 拟制: \_\_\_\_\_

田进