# 承 认 书

## APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G FPC 内置天线 L=145mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C145F2D3050A REV: A

| | MANUFACTURER SIGNATURE | CUSTOMER SIGNATURE |
|---|---|---|
| CHECKED BY: | Eddy | |
| APPROVED BY: | Changxing.Liu | |
| DATE: | 2022/7/30 | |

# Modification History

| Version | Content Revision | Issued by | Date |
|---|---|---|---|
| A | Original version | Eddy | 2022-7-30 |
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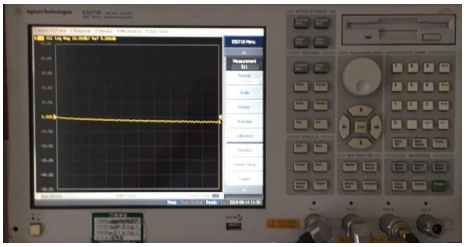
## 1. Electrical Specification:

| Characteristics | Specifications | Unit |
|---|---|---|
| Outline Dimensions | 55.9x15.5,L145 | mm |
| Frequency | 2400-2500 | MHz |
| Impedance | 50 | Ω |
| VSWR | < 2 | |
| Polarization | Linear Polarization | |
| Gain | 2.88 | dBi |
| Efficiency | >40 | % |
| Connector Type | MHF-1-Plug | |
| Operating temperature | -20℃~+85℃ | |
| Storage Temp | -20℃~+50℃ | |

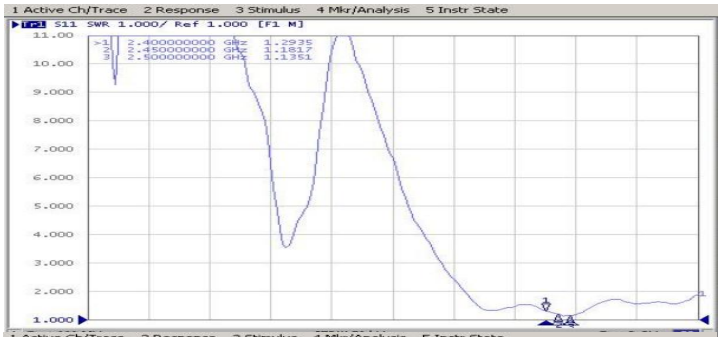
## 2.Test Items and Equipment

| | Test items | Test equipment |
|---|---|---|
| S Parameter | 1.Return Loss<br>2.VSWR | Network analyzer<br>(Agilent E5071B) |
| The whole machine of Passive parameters | 1.Frequency<br>2.Gain<br>3.Radiation Pattern | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Network analyzer<br>(Agilent E5071B) |
| The whole machine of Active parameters | 1.TRP<br>2.TIS | 1.3D microwave darkroom<br>(5m*5m*5m)<br>2.Comprehensive test instrument<br>(CMW500) |



## 3. S Parameter

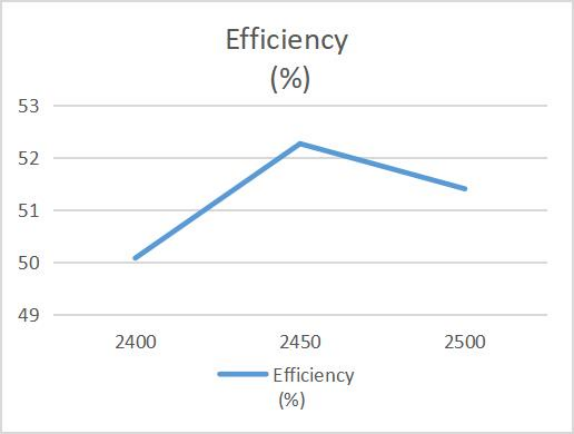
| Frequency (MHz) | Return Loss (dB) | VSWR |
|---|---|---|
| 2400 | -17.85 | 1.29 |
| 2450 | -2160 | 1.18 |
| 2500 | -23.98 | 1.13 |

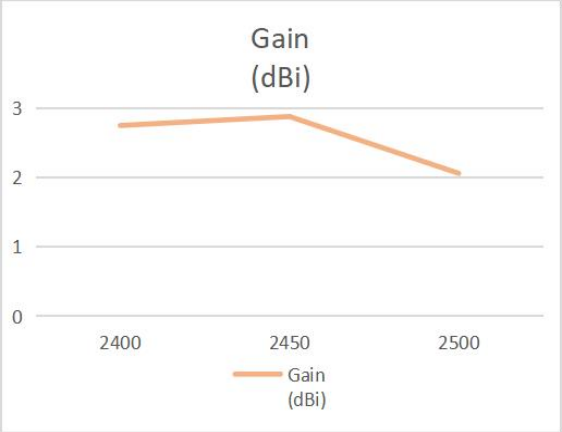


* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
RL=20*log10[(VSWR+1)/(VSWR-1)

## 4. Efficiency and Gain

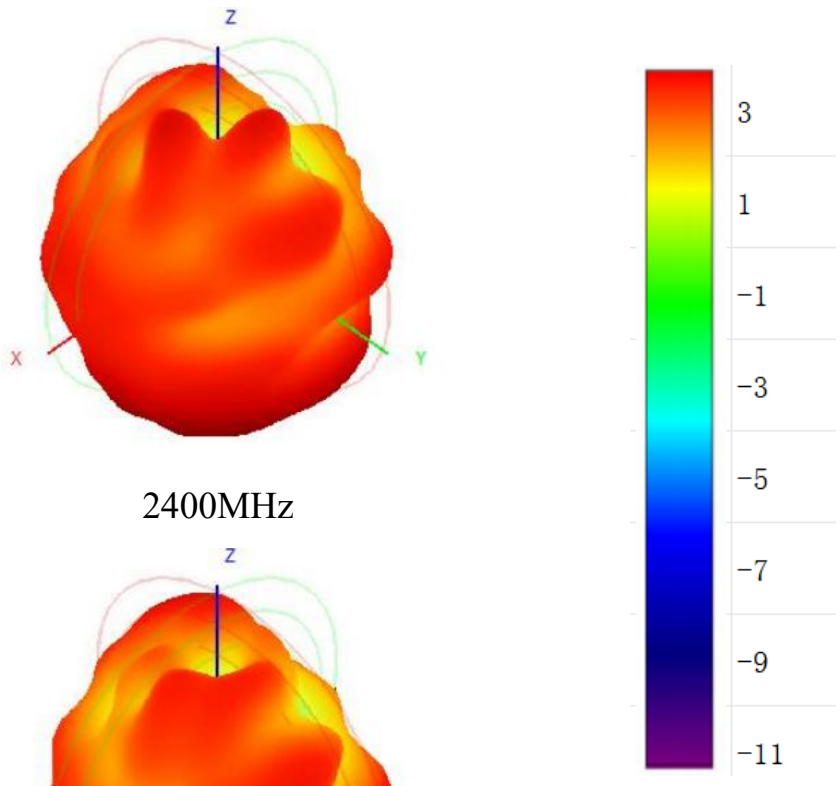
| Frequency (MHz) | 2400 | 2450 | 2500 |
|---|---|---|---|
| Efficiency (%) | 50.09 | 52.27 | 51.41 |
| Gain (dBi) | 2.75 | 2.88 | 2.06 |



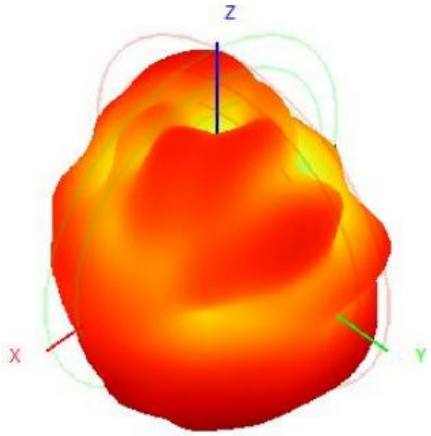



# 5. Radiation Pattern

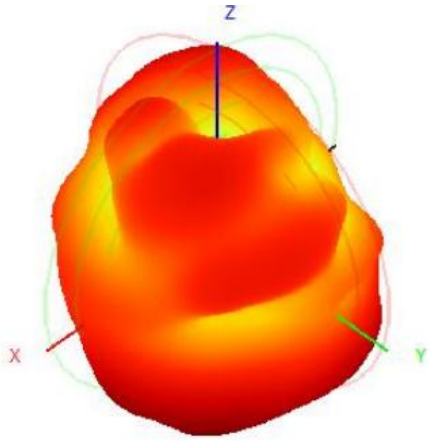
## 5-1 Antenna 3D Radiation Pattern




2400MHz




2450MHZ

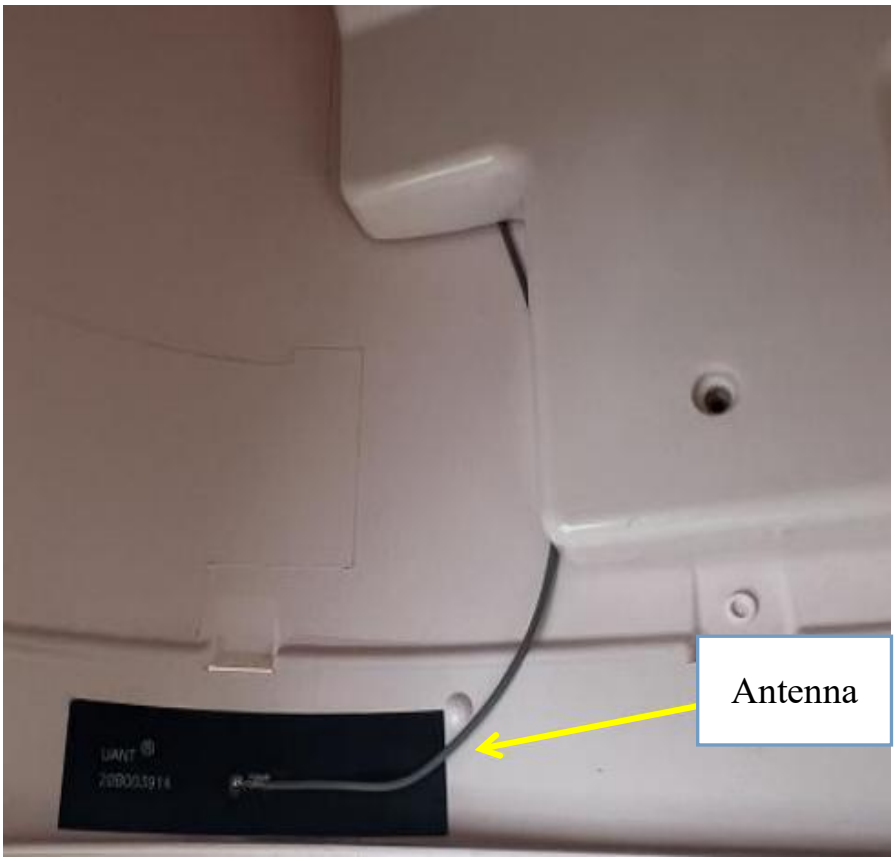


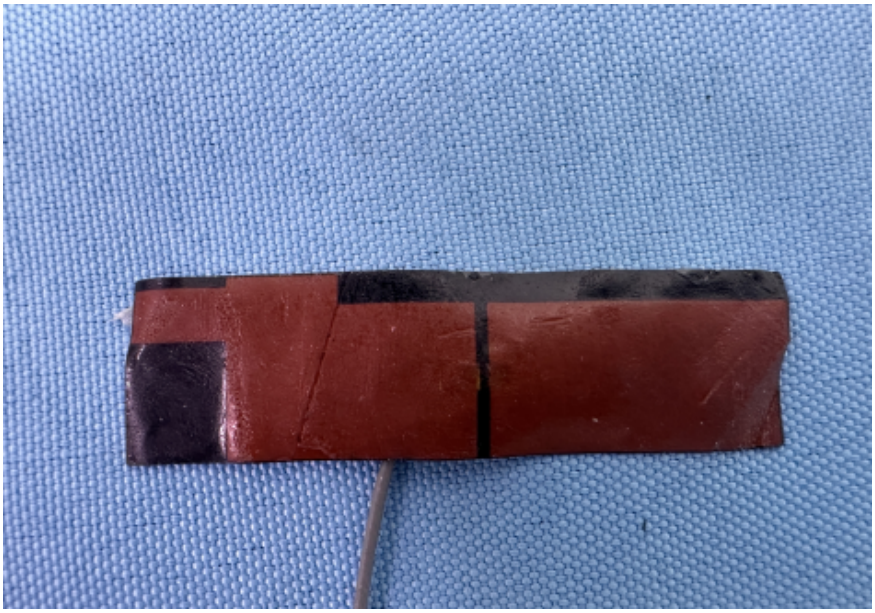

2500MHZ

## 6. Active test data

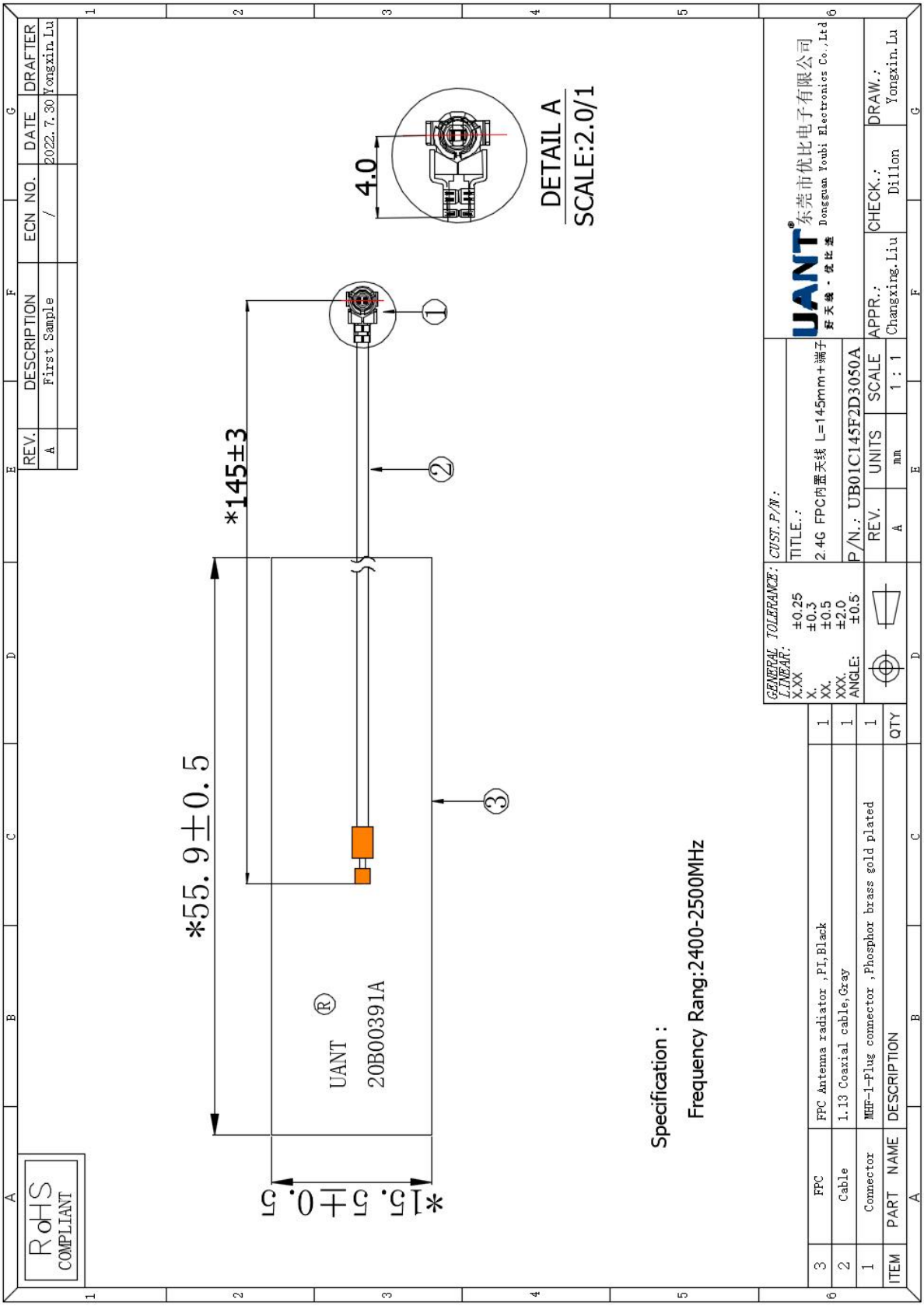
| Item | Measurement | Total |
|---|---|---|
| 1 | TRP | 17.05 |
| 6 | TRP | 16.44 |
| 11 | TRP | 16.68 |
| 1 | TIS(EIRP) | -85.25 |
| 6 | TIS(EIRP) | -85.41 |
| 11 | TIS(EIRP) | -86.23 |

## 7. Antenna installation diagram

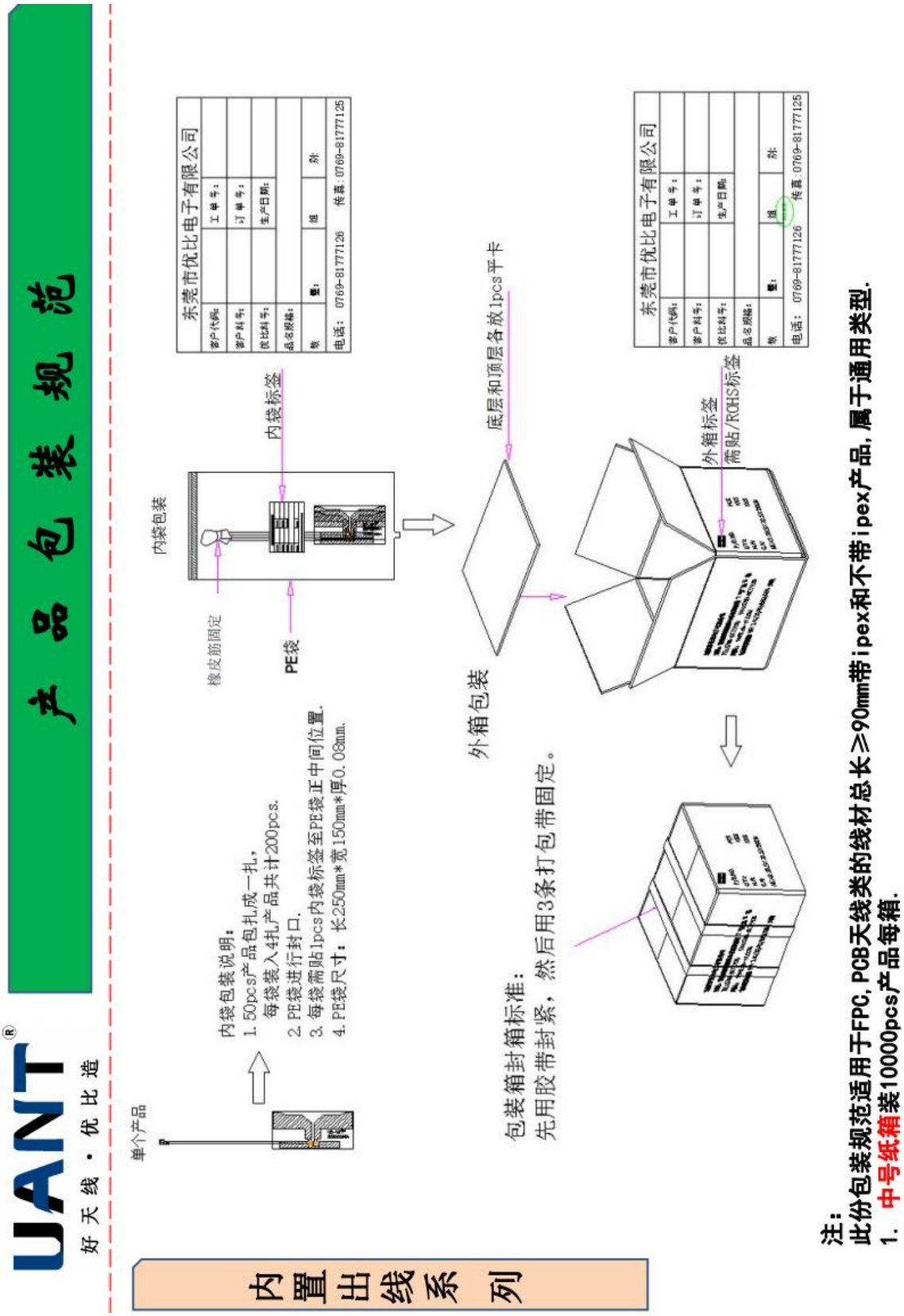




# 8.Mechanical Specification



# 9. Packaging


产品包装规范
UANT®
好天线·优比造
内置出线系列
单个产品
内袋包装说明：
1. 50pcs产品包扎成一扎，
每袋装入4扎产品共计200pcs.
2. PE袋进行封口.
3. 每袋需贴1pcs内袋标签至PE袋正中间位置.
4. PE袋尺寸：长250mm*宽150mm*厚0.08mm.
内袋包装
橡皮筋固定
PE袋
内袋标签
东莞市优比电子有限公司
客户代码:
工单号:
客户料号:
订单号:
优比料号:
生产日期:
品名规格:
数
量:
组
外:
电话: 0769-81777126
传真: 0769-81777125
底层和顶层各放1pcs平卡
外箱包装
外箱标签
需贴/ROHS标签
包装箱封箱标准：
先用胶带封紧，然后用3条打包带固定。
注：
此份包装规范适用于FPC, PCB天线类的线材总长≥90mm带ipex和不带ipex产品，属于通用类型.
1. 中号纸箱装10000pcs产品每箱.