

深圳市亿圣邦科技有限公司  
Shenzhen Yishengbang Technology Co., Ltd.

样品承认书

SPECIFICATION FOR APPROVAL

公司名称 (客户填写): 东莞市艾普达科技有限公司  
物料代码 (客户填写):  
规格型号 (客户填写): A2712P0YE  
承认日期 (客户填写):  
供应商名称 (SLK 填写): 深圳市亿圣邦科技有限公司  
供应商型号 (SLK 填写): WIFI MAIN:SLK-APD-2813B-M-370IV-B  
WIFI AUX:SLK-APD-2813C-M-385IV-G

承认签章

供应商承认

东莞市艾普达科技有限公司

工程师

审核

批准

工程师

审核

批准

范新竹

黄震

林美财

盖章签署

盖章签署

日期

2024-11-04

日期

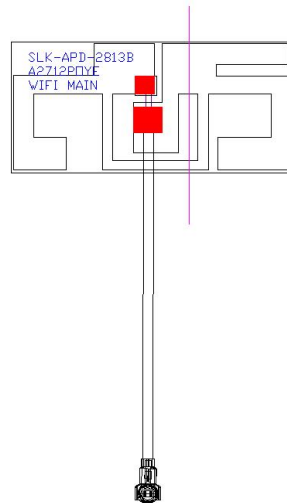
批示: ☐接受 ☐有条件接受

备注 (客户填写):

供应商地址: 深圳市宝安区西乡街道南昌社区前湾硬科技产业园 C 栋 101  
Address: 101, Building C, Qianwan Hard Technology Industrial Park,  
Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, China  
电话: 18666299104 传真: 0769-82553116

# WIFI MAIN

## 1. Explanation of Product number :



Product Code:

- (1) Customer: 艾普达
- (2) Antenna Name: WIFI 天线 (WIFI Antenna)
- (3) Connector: 1.13 黑色线, 总长 370mm, 4代端子

## 2. Features

- \*Stable and reliable in performances
- \*Compact size
- \*RoHS compliance

## 3. Applications

- \* IEEE802.11 (b/g/n/a)
- \* Hand-held devices when WIFI (802.11b/g/n/a) functions are needed

## 4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11b/g/n/a) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

# 5. Electrical Specifications

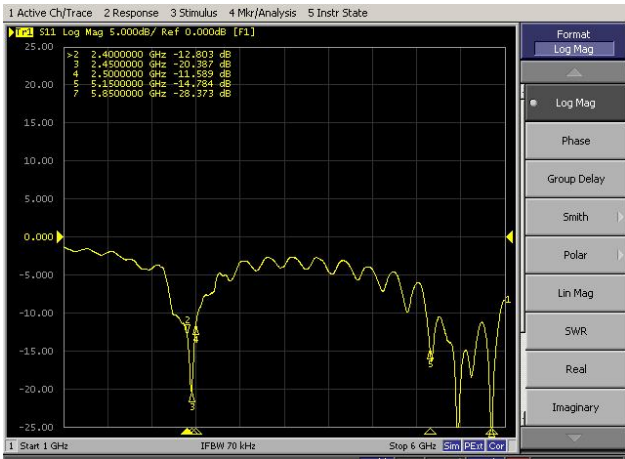
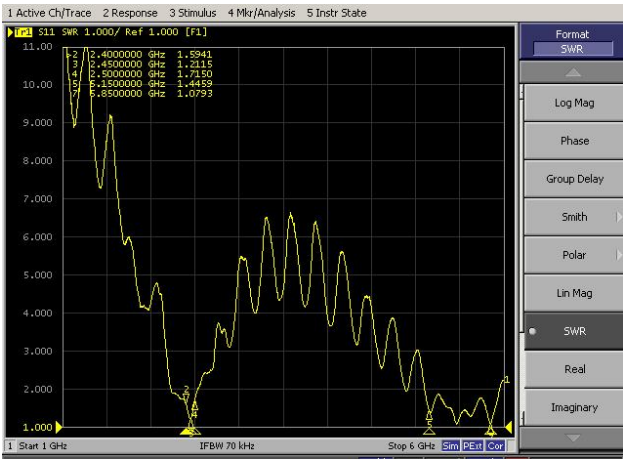
## 5-1

| Characteristics                   | Specifications    | Unit |
|-----------------------------------|-------------------|------|
| Outline Dimensions                | 28.14x13.12x0.12  | mm   |
| Center Frequency                  | 2.4-2.5+5.15-5.85 | GHz  |
| Bandwidth(under-10dB return loss) | 130min            | MHz  |
| VSWR                              | 3max              |      |

## 5-2.

VSWR

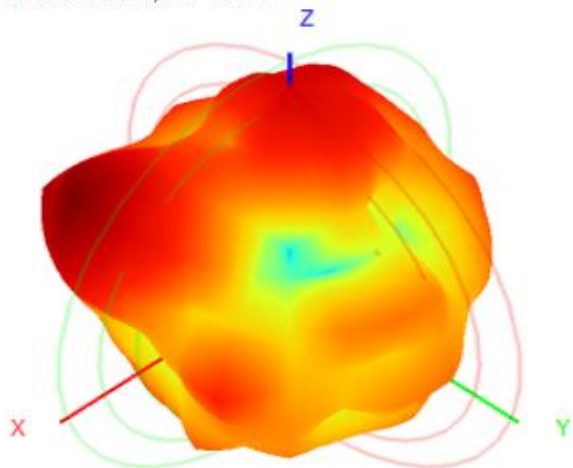
S11



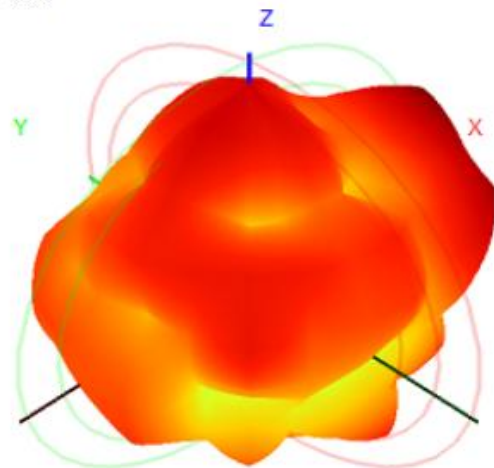
5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

|                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)  | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 | 5150.0 | 5350.0 | 5500.0 | 5650.0 | 5850.0 |
| Efficiency (dBi) | -3.88  | -3.64  | -3.36  | -3.26  | -3.20  | -3.26  | -3.27  | -3.39  | -3.27  | -3.43  | -3.72  | -3.49  | -3.39  | -3.81  | -3.77  | -3.65  |
| Gain (dBi)       | 1.29   | 1.97   | 1.78   | 2.06   | 2.47   | 2.75   | 2.72   | 2.81   | 2.85   | 2.41   | 1.99   | 2.42   | 1.51   | 2.30   | 2.89   | 2.17   |
| Efficiency (%)   | 40.83  | 43.19  | 46.13  | 47.15  | 47.77  | 47.17  | 47.08  | 45.80  | 47.01  | 45.29  | 42.39  | 44.77  | 45.79  | 41.62  | 41.96  | 43.08  |

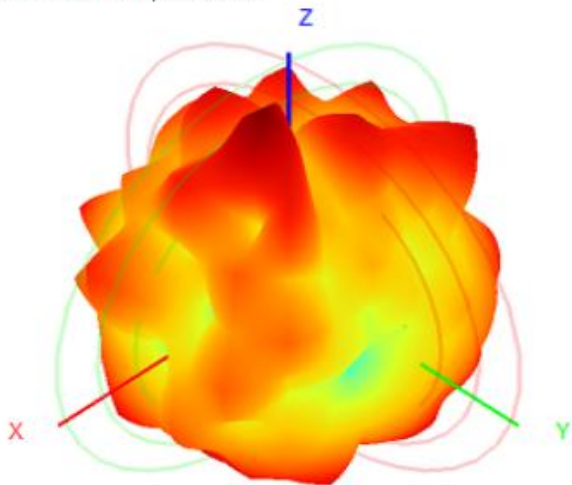
2450.0MHz H+V, Eff. 47.2%



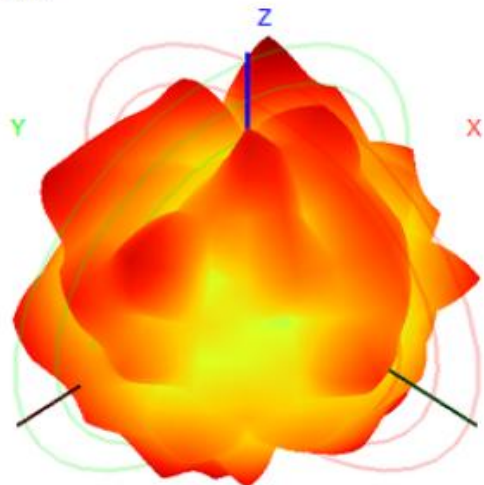
Back View



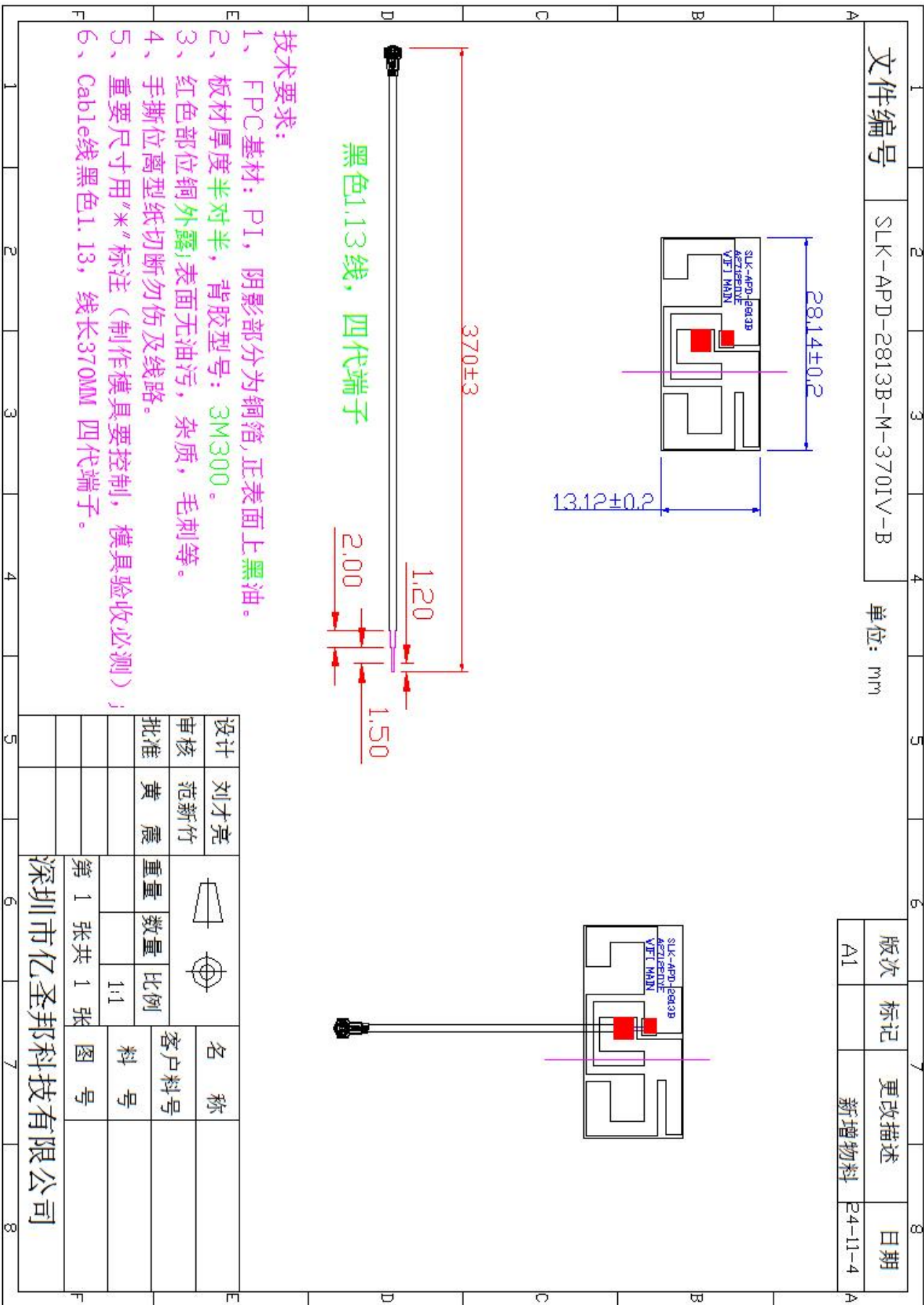
5850.0MHz H+V, Eff. 43.1%



Back View

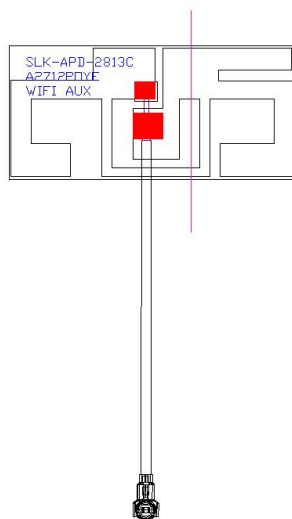


6. Antenna Dimensions (unit: mm)



# WIFI AUX

## 1. Explanation of Product number :



Product Code:

(1) Customer: 艾普达

(2) Antenna Name: WIFI 天线 (WIFI Antenna)

(3) Connector: 1.13 灰色线, 总长 385mm, 4代端子

## 2. Features

- \*Stable and reliable in performances
- \*Compact size
- \*RoHS compliance

## 3. Applications

- \* IEEE802.11 (b/g/n/a)
- \* Hand-held devices when WIFI (802.11b/g/n/a) functions are needed

## 4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11b/g/n/a) applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

# 5. Electrical Specifications

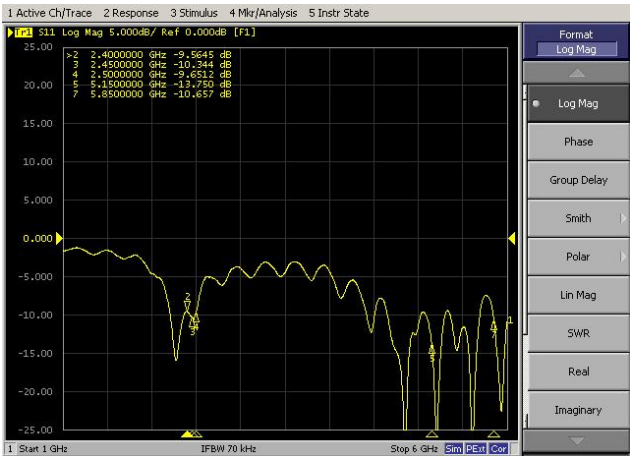
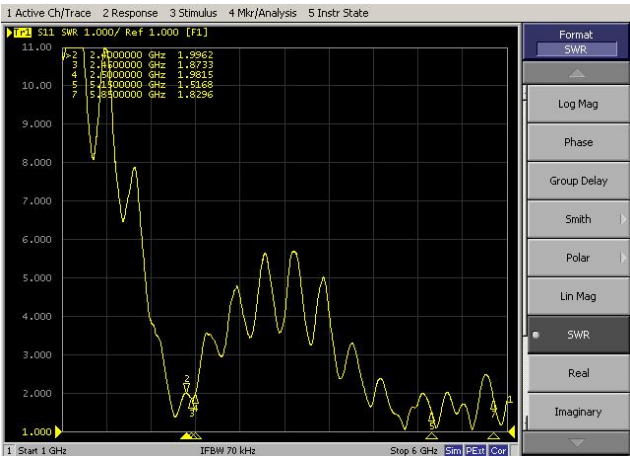
5-1

| Characteristics                   | Specifications    | Unit |
|-----------------------------------|-------------------|------|
| Outline Dimensions                | 28.14x13.12x0.12  | mm   |
| Center Frequency                  | 2.4-2.5+5.15-5.85 | GHz  |
| Bandwidth(under-10dB return loss) | 130min            | MHz  |
| VSWR                              | 3max              |      |

5-2.

VSWR

S11

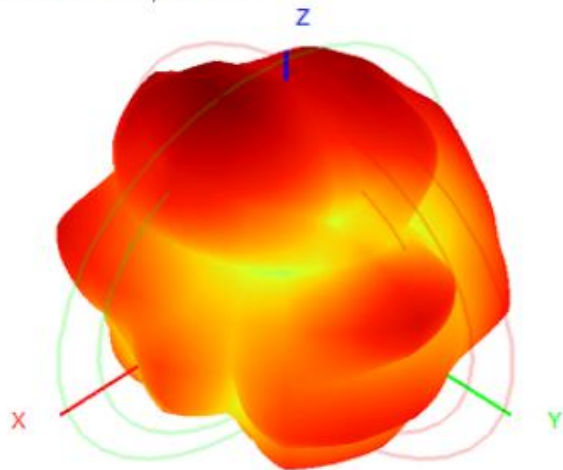




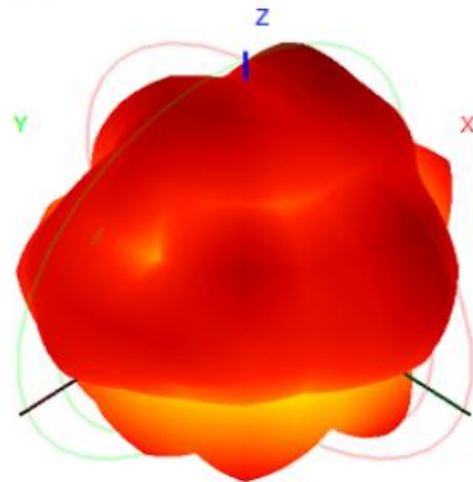
5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

|                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)  | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 | 5150.0 | 5350.0 | 5500.0 | 5650.0 | 5850.0 |
| Efficiency (dBi) | -3.87  | -3.64  | -3.50  | -3.45  | -3.37  | -3.42  | -3.42  | -3.46  | -3.36  | -3.38  | -3.63  | -3.83  | -3.60  | -3.73  | -3.71  | -3.57  |
| Gain (dBi)       | 2.10   | 2.32   | 2.68   | 2.74   | 2.91   | 2.89   | 2.35   | 2.27   | 2.54   | 2.55   | 2.77   | 2.26   | 1.35   | 2.53   | 2.63   | 1.99   |
| Efficiency (%)   | 40.95  | 43.19  | 44.57  | 45.11  | 46.00  | 45.41  | 45.44  | 45.00  | 46.03  | 45.87  | 43.31  | 41.39  | 43.61  | 42.40  | 42.51  | 43.89  |

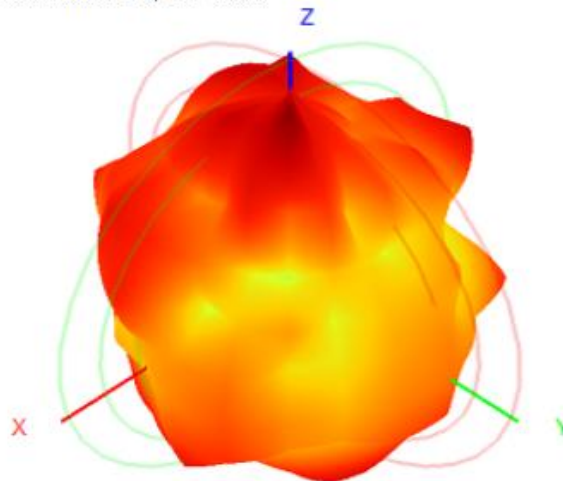
2450.0MHz H+V, Eff. 45.4%



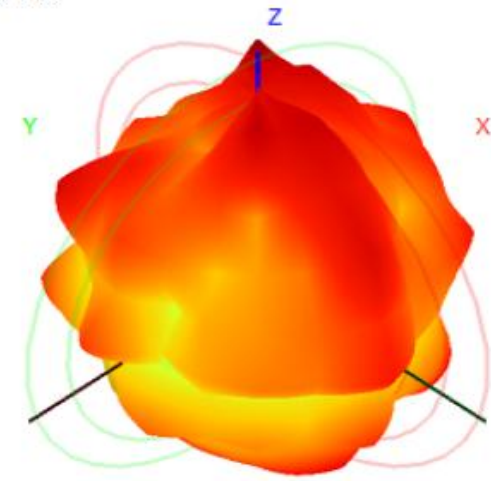
Back View



5850.0MHz H+V, Eff. 43.9%

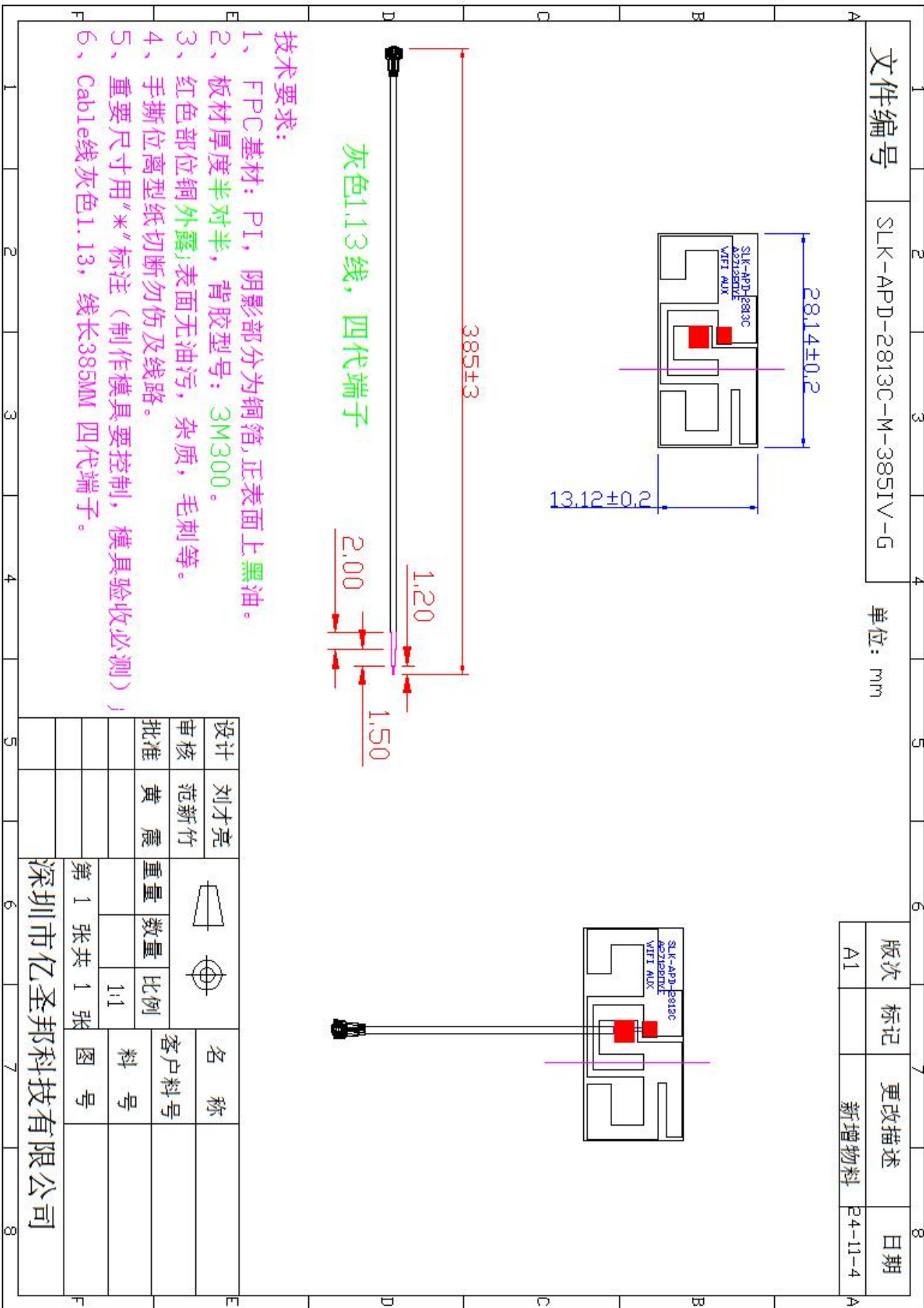


Back View





6. Antenna Dimensions (unit: mm)



7. Antenna Picture

