# QiuYu 106（108） WIFI2.4G antenna acknowledgment Product Specifications for Approval

## The Part number：WF073-1131R-170

The customer name:QiuYu          Models：106（108）

Antenna band：WIFI2.4G

Version: R-A          Date：2019-09-19

| Shenzhen ShunDaCheng Technology Co.,Ltd. | | | |
|---|---|---|---|
| **MD：** | **Yulong zhang** | **RF：** | **Liwen Ceng** |
| **Audit:** | **Qiang Chen** | **Approval:** | **Huaming Chen** |
| **Customer Confirmation** | | | |
| **Customer audit：** | | **Customer approval:** | |

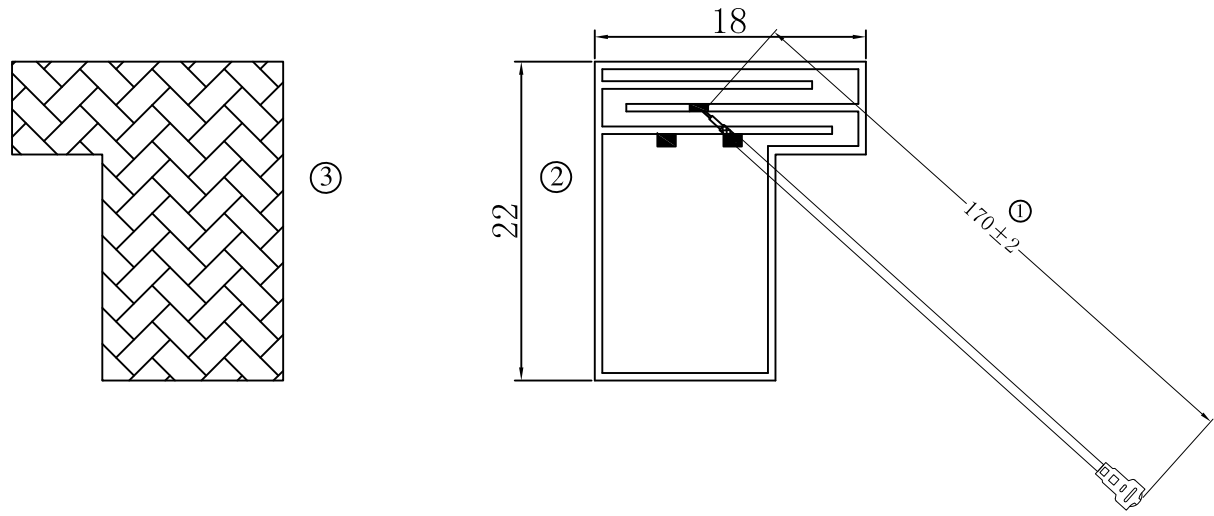**Company address**：Floor 4, building B5, xinfu industrial park, chongqing road, fuyong town, baoan district, shenzhen

**The phone**：0755-27211658          **Fax**：0755-29485750

| REV | DATE | DESCRIPTION | ECN NO. | NAME |
|-----|------|-------------|---------|------|
| A | 19.09.19 | NEW RELEASE | | MISS LUO |

RoHS Compliant

073B SERIES 2.4G FPCB Antenna(Up side)

18

22

170±2

③

②

①

| 6 | | | 1 | SHUN DA CHENG ELECTRONICS CO., LTD | PART NO.: WF073-1131R-170 | | |
|---|---|---|---|---|---|---|---|
| 5. | | | 1 | TITLE: 2.4G FPCB Antenna(Up side) | | | |
| 4. | | | 1 | | | | |
| 3. | GAF-Y196008 | 3M,Size:22mm * 18mm | 1 | DRAWN BY | MISS LUO | DRAWING NO. | WF073-1131R-170 |
| 2. | GM0160-01000011-01 | FR,T:0.18mm,Size:22mm * 18mm | 1 | CHECKED BY | | DRAWING SIZE | A4 |
| 1. | GMINI-178B01D11SX | OD:1.13mm Coaxial Cable, FEP Gray Jacket L=170mm IPEX1 | 1 | APPROVED BY | | UNIT | mm |
| NO. | ITEM | DESCRIPTION | QTY | SORTING NO. | SDC | PAGE | 1 OF 1 |

[ARTICLE: 044032 V4]

# 1. Project information and Electrical Specification

*Those specifications were specially defined for* *QiuYu 106(108)*，**WIFI2.4G,** *and all characteristics were measured under the model's handset testing jig .*
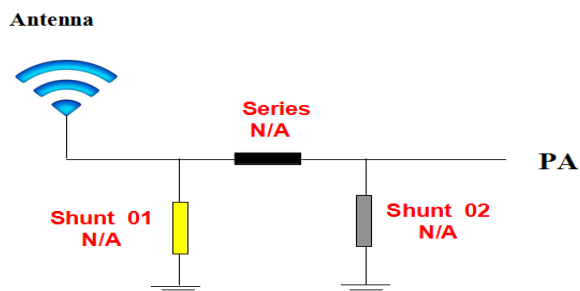
1-1 Antenna picture



1-2 Frequency Band:

| Frequency Band | MHz |
|---|---|
| WIFI2.4G | 2400-2500（MHz） |

1-3 Impedance matching
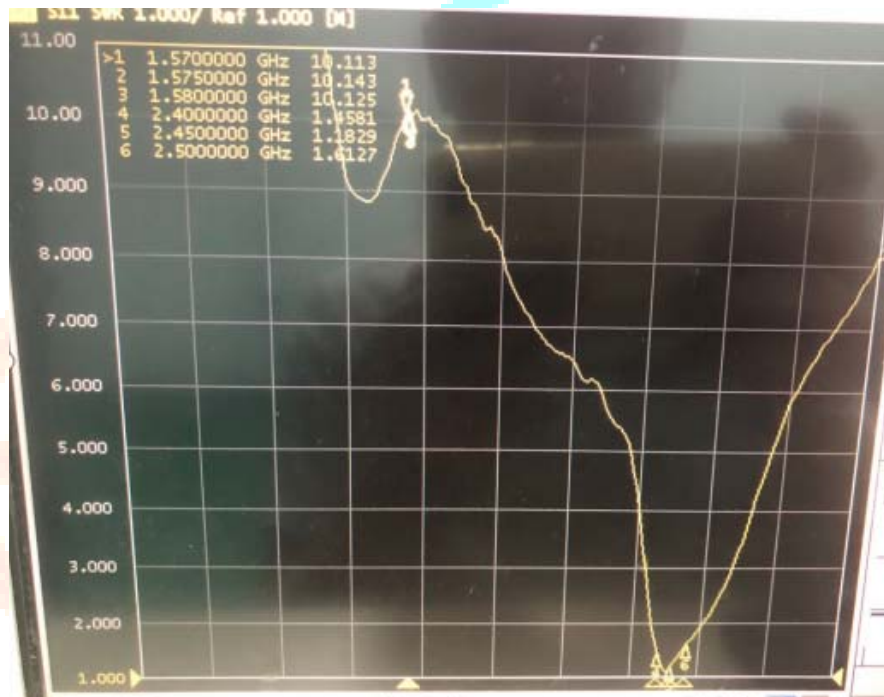


Antenna original match without change

## 2.VSWR
## Measuring Method:

*1. A 50 Ω coaxial cable is connected to the antenna. Then this cable*
*is connected to a network analyzer to measure the VSWR,*
*2. Keeping this jig away from metal at least 20cm.*

## VSWR parameter values

| frequency （MHZ） | 2400 | 2450 | 2500 |
|---|---|---|---|
| Standing wave | 1.45 | 1.18 | 1.61 |



## 3.   **Efficiency and Gain**\*measuring and test instruments:

 Microwave Darkroom, Agilent Network Analyzer, Agilent Spectrum Analyzer, 8960 Integrated Tester, Standard Antenna

\* Test method:

The equipment is fixed at the center of the turntable in the center of the turntable, with the center of the horn antenna on the same horizontal line.

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Efficiency/Gain-WIFI2.4G

| BAND | WIFI2.4G/BT | | |
|---|---|---|---|
| Freq.[MHZ] | 2400 | 2450 | 2500 |
| Eff.[%] | 46.26 | 46.95 | 45.18 |
| Peak Gain [dBi] | 1.61 | 1.68 | 1.59 |

# 4.The production index

Antenna production, the standing wave ratio as a production test standards.

According to the difference between the project itself, given the following criteria:

| frequency | Production standards |
|---|---|
| WIFI2.4G | VSWR（Production products）<br><VSWR(Design samples)+/-0.5 |