

## 规格承认书

### Specification for Approval

客户名称: YNOT Co., Ltd (Solu-m)  
Customer:  
规格描述: 2.4/5.8G PCB Antenna with IPEX, RF1.13 Gray Cable, L=212mm  
Part name  
飞宇信料号: 3.03.1001003947 (reserved)  
Part No.  
客户料号:  
Customer Part No.

| 客户承认印 Customer Approval |       |            |
|-------------------------|-------|------------|
| APPROVAL                | CHIEF | SUPERVISOR |
|                         |       |            |

| 制造厂商承认 Manufacturer Recognition                                                                                                             |               |                 |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|------------------|
| SALES                                                                                                                                       | CHECK         | CHIEF           | DESIGN           |
| <i>Effy</i>                                                                                                                                 | <i>Mr. Li</i> | <i>Jerry</i>    | <i>Ms. Zheng</i> |
| Date:2023-10-20                                                                                                                             |               | Date:2023-10-20 |                  |
| THANKS FOR OFFERING US THE OPPORTUNITY TO SEND SAMPLES FOR APPROVEMENT. PLS KINDLY SIGN BACK THIS DOCUMENT TO US WHEN SAMPLES ARE APPROVED. |               |                 |                  |

### FEIYUXIN HEADQUARTER

Add: No.76 Baotong South Road, XiKeng Industrial Zone, LongGang District, Shenzhen 518115, China

TEL: 0755-89737230

FAX: 0755-89737181

Email: sales@fyxdz.com

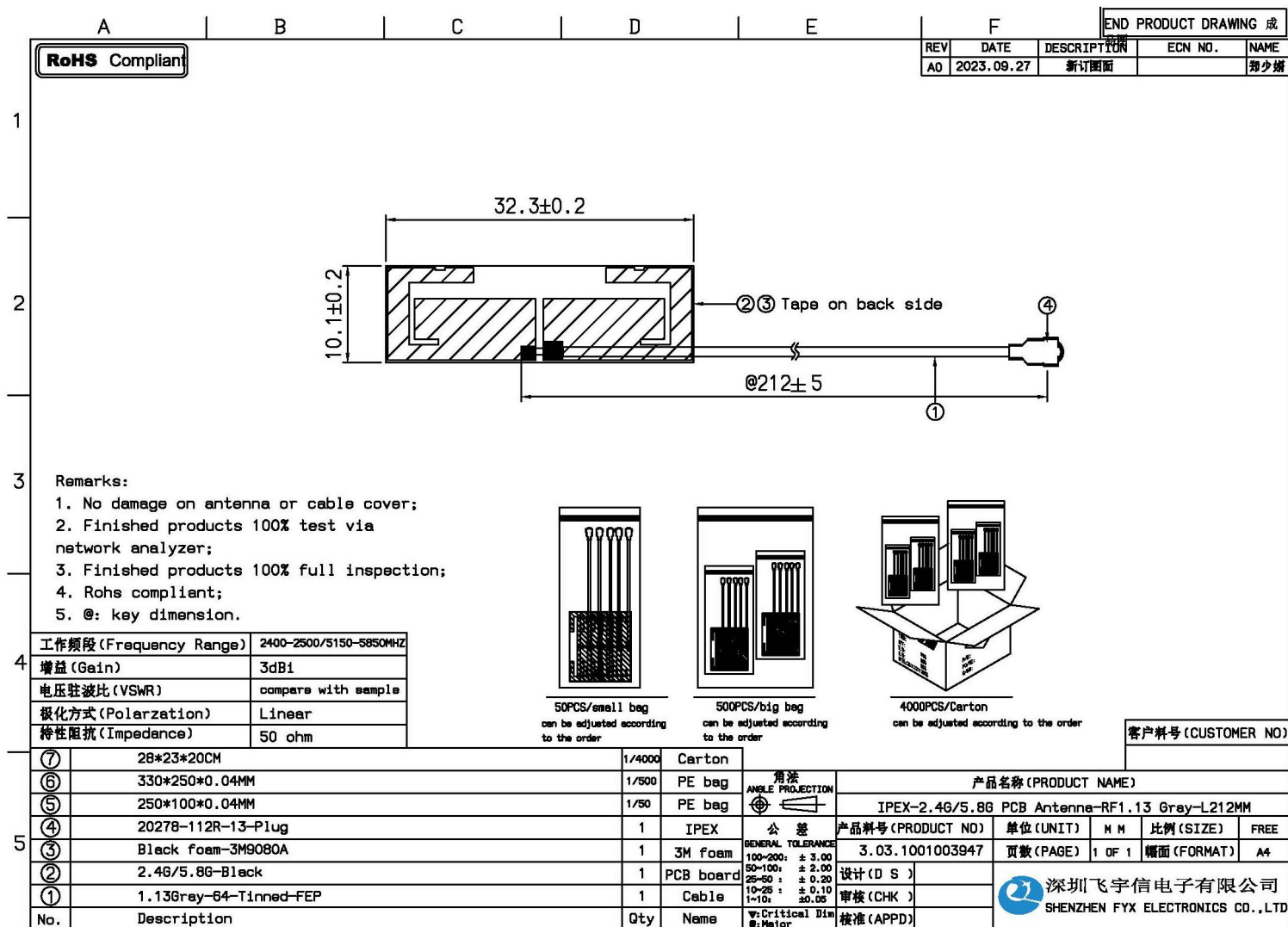
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## Modification Record

| Revision | Date       | Engineer  | Modified Content |
|----------|------------|-----------|------------------|
| 01       | 2023.10.20 | Ms. Zheng | NEW              |
|          |            |           |                  |
|          |            |           |                  |
|          |            |           |                  |
|          |            |           |                  |
|          |            |           |                  |
|          |            |           |                  |

# Antenna Drawing



表单编号: FYX/E-QR-14A 版本: 第三版

## Product Specifications

### 1. Antenna Specs

| Product Name: 2.4/5.8G PCB Antenna with RF1.13 Gray Cable |                        |
|-----------------------------------------------------------|------------------------|
| DESCRIPTION                                               | VALUE                  |
| Frequency range                                           | 2400-2500/5150~5850MHz |
| Impedance                                                 | 50Ω                    |
| V.S.W.R                                                   | Compare with sample    |
| Gain                                                      | 3dBi                   |
| Radiation                                                 | Omni-directional       |
| Radiating element                                         | 1/4 Wave Helical       |
| Polarization                                              | linear Vertical        |
| Admitted power                                            | 5W                     |
| Connector                                                 | IPEX/U.FL              |
| Cable type                                                | RF1.13                 |
| Operating temp                                            | -40°C~+70°C            |
| Storage temp                                              | -45°C~+75°C            |

### 2. Cable Specs

#### 1.13 Structure



| Item               | Material           | OD(mm)      |
|--------------------|--------------------|-------------|
| 1. Inner conductor | Tinned copper wire | 7/0.08±0.02 |
| 2. Insulator       | PE                 | 0.66±0.02   |
| 3. Outer conductor | Tinned copper wire | 0.88±0.05   |
| 4. Jacket          | FEP                | 1.13±0.05   |

### Electrical performance

|                                   |            |
|-----------------------------------|------------|
| Capacitance(pF/m)                 | 96±3       |
| Impedance(ohm)                    | 50         |
| Rate(%)                           | 66         |
| Bending radius (mm)               | ≤7         |
| Maximum operating voltage (VMS)   | 1000       |
| Maximum operating frequency (MHz) | 6000       |
| Operating temperature range (°C)  | -40 TO +80 |

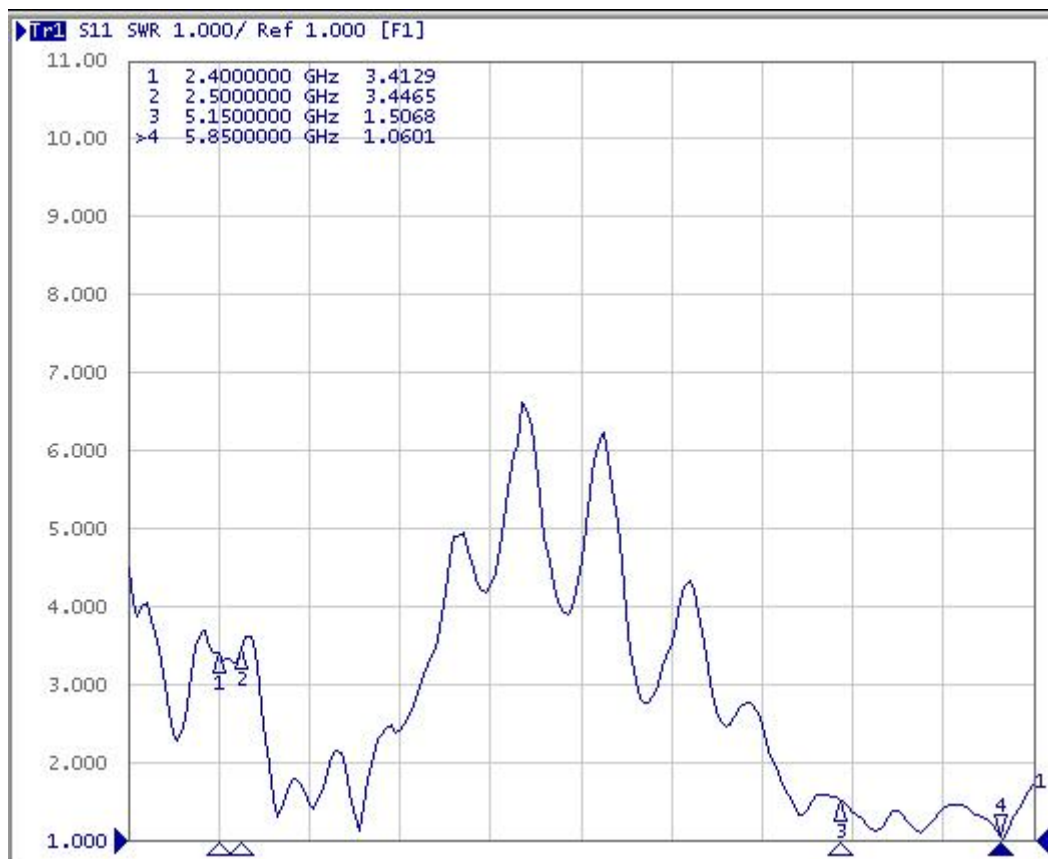
### Attenuation (typical)

| Frequency (MHz) | Attenuation (≧dB/m) |
|-----------------|---------------------|
| 100             | 0.42                |
| 400             | 0.58                |
| 1000            | 2.20                |
| 2000            | 3.40                |
| 3000            | 4.20                |
| 4000            | 4.50                |
| 5000            | 5.20                |
| 6000            | 5.60                |

# Test Report

(Empty test without customer's device)

## 1. VSWR Test



## 2. Efficiency and Gain Test

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) |
|---------------|-------------|--------------|---------------|---------------|
| 2400          | 56.08       | -2.51        | 3.59          | 1.44          |
| 2410          | 52.47       | -2.8         | 3.08          | 0.93          |
| 2420          | 47.27       | -3.25        | 2.37          | 0.22          |
| 2430          | 47.83       | -3.2         | 2.57          | 0.42          |
| 2440          | 47.09       | -3.27        | 2.35          | 0.2           |
| 2450          | 51.95       | -2.84        | 2.72          | 0.57          |
| 2460          | 52.99       | -2.76        | 2.96          | 0.81          |
| 2470          | 46.17       | -3.36        | 2.16          | 0.01          |
| 2480          | 49.42       | -3.06        | 2.86          | 0.71          |
| 2490          | 43.37       | -3.63        | 1.79          | -0.36         |
| 2500          | 44.11       | -3.55        | 2.12          | -0.03         |

| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) |
|---------------|-------------|--------------|---------------|---------------|
| 5150          | 75.15       | -1.24        | 2.8           | 0.65          |
| 5220          | 56.1        | -2.51        | 1.84          | -0.31         |
| 5290          | 60.66       | -2.17        | 1.52          | -0.63         |
| 5360          | 76.42       | -1.17        | 2.94          | 0.79          |
| 5430          | 94.7        | -0.24        | 4.47          | 2.32          |
| 5500          | 81.71       | -0.88        | 2.83          | 0.68          |
| 5570          | 83.32       | -0.79        | 2.75          | 0.6           |
| 5640          | 63.53       | -1.97        | 2.3           | 0.15          |
| 5710          | 72.77       | -1.38        | 3.61          | 1.46          |
| 5780          | 72.95       | -1.37        | 3.04          | 0.89          |
| 5850          | 54.23       | -2.66        | 1.73          | -0.42         |