

# 产品规格承认书

Product specifications  
acknowledgment

承认厂商：\_\_\_\_\_

(Recognized manufacturers)

制造厂商：\_\_\_\_\_深圳市蝙蝠无线技术有限公司\_\_\_\_\_

(Manufacturer)

产品名称：\_\_\_\_\_天线转接线（IPEX 转 SMA）\_\_\_\_\_

(Description)

## 产品选型表：

(Product Type)

| 型号                  | 说明                                  | 备注      |
|---------------------|-------------------------------------|---------|
| BWIPX1-SMA-1.13L200 | SMA 默认为外螺内孔                         | 各参数均可订制 |
| BWIPX1-SMA-1.13L100 | IPX1 为一代扣子 1.13 为线径 L 为<br>线长 100mm | 各参数均可订制 |
| BWIPX2-SMA-0.81L200 | IPX2 为二代扣子 0.81 为线径 L 为<br>线长 200mm | 各参数均可订制 |

## 供应商承认签栏

| 制表者 | 审核者 | 核准者 |
|-----|-----|-----|
|     |     |     |

## 客户承认栏

| 审核者 | 核准者 |
|-----|-----|
|     |     |



## 1.1 Specifications

|                                          |                                 |
|------------------------------------------|---------------------------------|
| 型号 Antennas Type                         | BWIPX1-SMA-1.13L200             |
| 阻抗 Impedence ( $\Omega$ )                | 50 $\Omega$                     |
| 电压驻波比 V.S.W.R                            | 直式软性电缆<1.15+0.02f (GHZ)         |
| 频率范围 Frequenc Range(MHz)                 | 0-12. 4G(软电缆)                   |
| 工作电压 DC Voltage (V)                      | 335V max                        |
| 介质耐压 Withstand Voltage(V)                | 1000Vrms                        |
| 接触电阻 Contact resistance()                | 内导体<3mOhm 外导体<2mOhm             |
| 绝缘电阻 Insulation resistance               | >5000 兆欧                        |
| 插入损耗 Insert Loss                         | 0. 4dB (6GHz)                   |
| 射频泄漏 RF leakage                          | -60dB/-90dB(软电缆/半刚电缆)@2-3GHz    |
| 耐用性 Durability(mating)                   | 500 次                           |
| PLUG 内径/JACK 外径                          | 6. 5mm/5. 4mm                   |
| 壳体 shell                                 | 黄铜镀硬金或不锈钢表面钝化                   |
| 插针 contact pin                           | 黄铜镀硬金                           |
| 插孔 socket                                | 铍青铜镀硬金                          |
| 绝缘体 insulator                            | 聚四氟乙烯                           |
| 密封件 sealing                              | 硅橡胶                             |
| 压接套 crimp ferrule                        | 铜合金镀镍                           |
| 重量 Weight(g)                             | None                            |
| 工作温度 OperatingTemperature( $^{\circ}$ C) | -65~+165 (PE CABLE-40~+85)      |
| 标准 APPLICABLE STANDARD                   | MIL-C-39012、IEC169-15、CECC22110 |

## 1.2 Antenna Picture



上图型号: BWIPX1-SMA-1.13L200

(可定制)

\*注: 因天线功能较为敏感, 主体周边机构有变更请通知我们评估。

## **2. Electrical Specification**

### **2.1 Test Equipment**

- A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

### **2.2 Test Setup**

#### **2.2.1 Frequency Range**

#### **2.2.2 VSWR**

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



**Figure.1**

#### **2.2.3 Radiation pattern and Gain**

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).

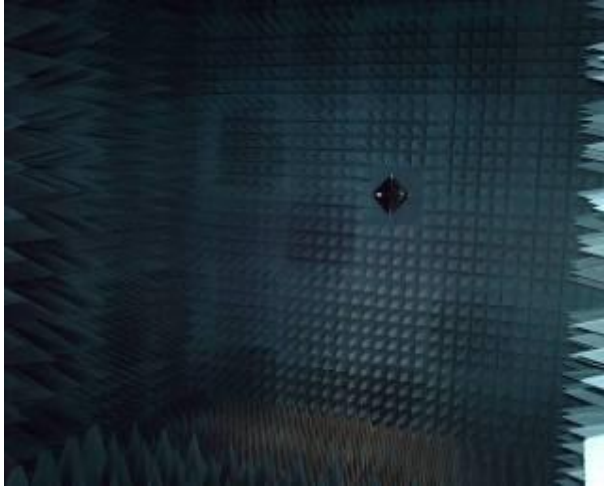


Figure.2



Figure.3

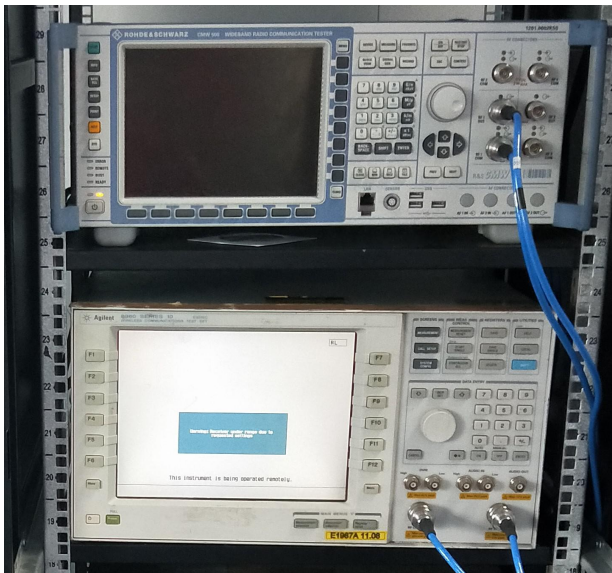


Figure.4

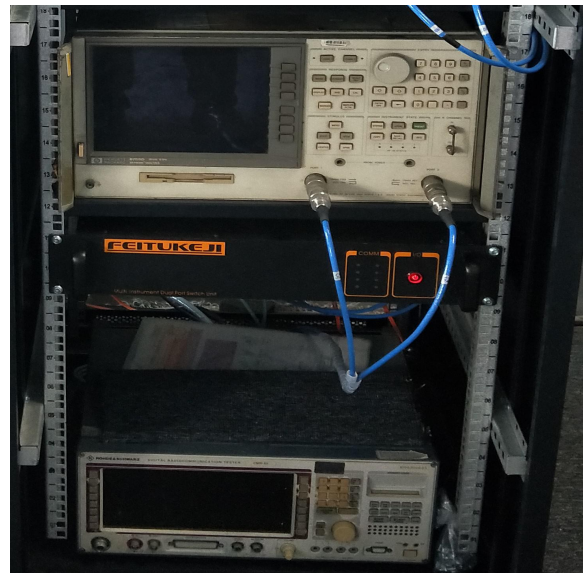
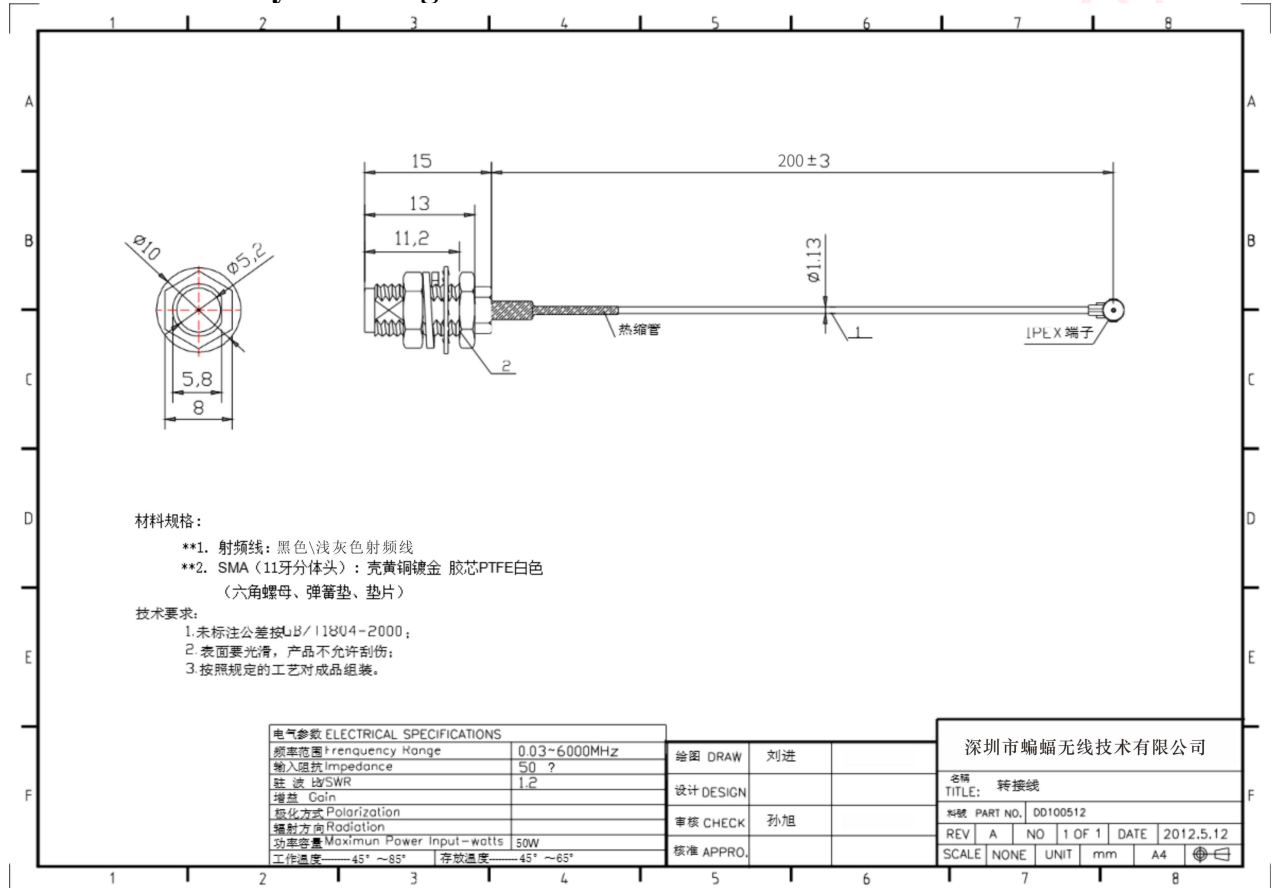


Figure.5

## 4. Mechanical Specification

### 4.1 Assembly Drawing



## 5.免责声明 (Disclaimer):

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