



# 天线规格书

## Antenna Datasheet

## BW900SNX24-4Z6B1L80

## 零件编号说明

|      |                   |                       |
|------|-------------------|-----------------------|
| BW   | 公司 / Company      | 蝙蝠无线 / Bat Wireless   |
| 900  | 频段 / Frequency    | 900MHz / 900MHz       |
| S    | 名称 / Name         | 弹簧天线 / Spring Antenna |
| N    | 类型 / Type         | 内置 / Internal         |
| X    | 常数 / Constant     | X / X                 |
| 24-4 | 大概尺寸 / Dimensions | 24-4mm / 24-4mm       |
| Z    | 特点 / Feature      | 弯脚 / Bent             |
| 6    | 脚长 / Length       | 6 / 6                 |
| B1   | 接口 / Connector    | IPEX1 / IPEX1         |
| L    | 长度 / Length       | 长度 / Length           |
| 80   | 线长 / Wire Length  | 80 / 80               |



## 2. 产品规格 / Specification

| 参数 / Parameters                      | 典型值 / Typ.                | 单位 / Unites        | 备注 / Notes |
|--------------------------------------|---------------------------|--------------------|------------|
| 电气特性 / Electrical Characteristics    |                           |                    |            |
| 类型 / Antenna Type                    | 弹簧天线 / Spring Antenna     |                    |            |
| 频率 / Frequency Range                 | 900                       | MHz                |            |
| 输入阻抗 / Input Impedence               | 50                        | $\Omega$           |            |
| 驻波比 / V.S.W.R                        | <3                        |                    |            |
| 增益 / Gain                            | -2.5                      | dBi                |            |
| 极化方式 / Polarization Type             | 垂直 / Vertical             |                    |            |
| 功率容量 / Power Capacity                | 50                        | W                  |            |
| 雷电保护 / Lightning Protection          | -                         |                    |            |
| 工作电压 / DC Voltage                    | -                         | V                  |            |
| 辐射体 / Radiator                       | -                         |                    |            |
| 机械特性 / Mechanical Characteristics    |                           |                    |            |
| 尺寸 / Dimensions                      | 24 x $\varnothing$ 4 x 10 | mm                 |            |
| 接口形式 / Connector Type                | IPEX-1                    |                    |            |
| 电缆型号 / Cable Type                    | RG1.13                    |                    |            |
| 电缆长度 / Cable Length                  | 80                        | mm                 |            |
| 安装方式 / Mount way                     | 压扣                        |                    |            |
| 颜色 / Color                           | 银色                        |                    |            |
| 材料 / Material                        | 碳钢镀镍                      |                    |            |
| 重量 / Weight                          | -                         | g                  |            |
| 环境特性 / Environmental Characteristics |                           |                    |            |
| 防护等级 / Waterproof Rating             | -                         |                    |            |
| ROHS标准 / ROHS Complaint              | 符合                        |                    |            |
| 工作温度 / Operating Temperature         | -45~ +85                  | $^{\circ}\text{C}$ |            |
| 存储温度 / Storage Temperature           | -45~ +85                  | $^{\circ}\text{C}$ |            |



## 4. 尺寸图 / Mechanical Drawing

[illegible]

## 5. 测试设备 / Test Equipment



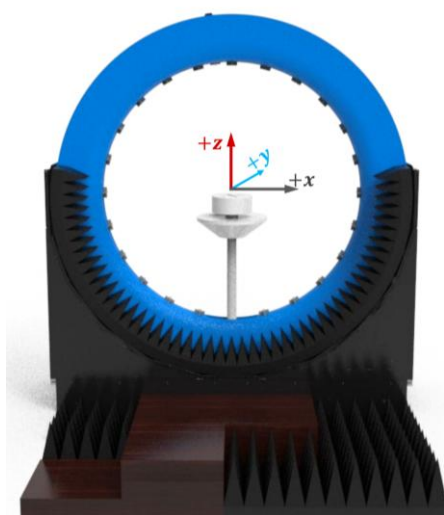
Keysight/E5071C 网络分析仪



R&amp;S/CMW500 综测仪



R&amp;S/SMBV100B 信号源



### DT-3500 Datasheet / 系统规格

| Specification:           | Description           |
|--------------------------|-----------------------|
| Test Frequency /测试频域:    | 400MHz-8.5GHz         |
| System Size /系统尺寸:       | L*W*H=4*3.5*3.5m      |
| Number of Probes /探头数目:  | 23 (Probe) + 1 (link) |
| Interval Angle /采样夹脚:    | 15°                   |
| Sampling Diameter /采样直径: | 2200mm                |
| Carring Capacity /承载能力:  | ≤40kg                 |

### Testing Capability / 测试能力

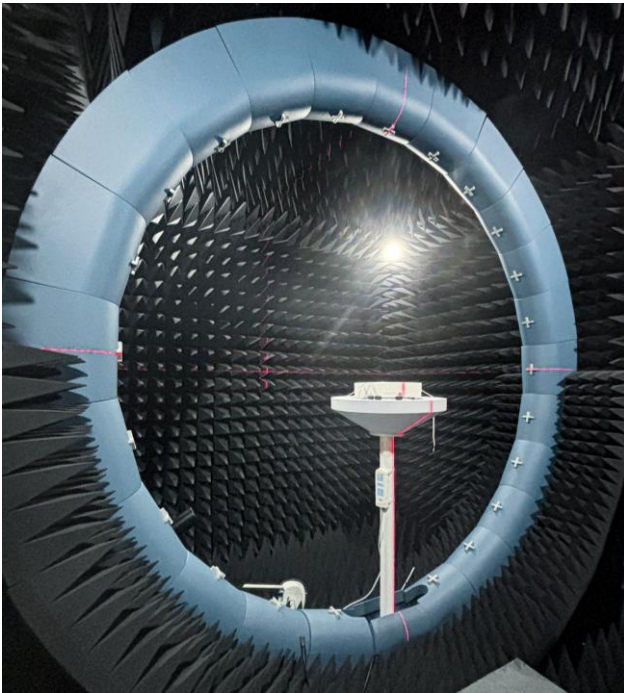
### Description / 能力描述

#### Active measurement 有源测试

**Capability /测试指标:** TRP、TIS、EIRP、EIS,. etc  
**Mode /测试制式:** 2G/3G/4G/5G、Wi-Fi b/g/n/a/ac/ax、BT、NB-IOT、Cat-M(eMTC)、GPS/BEIDOU/GLONASS、ZigBee、LoRa(Non-Signaling),.etc

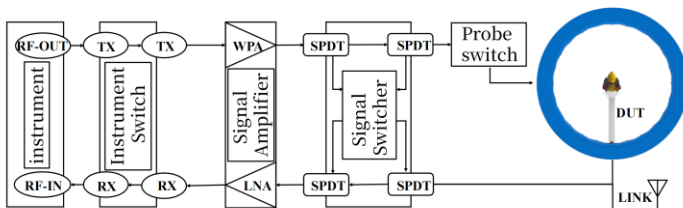
#### Passive measurement 无源测试

**Test category /测试类型:** Gain、Efficiency、2D pattern、3D pattern、Pattern roundness、Axial Ratio, ECC,Phase center,. etc  
**Polarization /极化方式:** Circular polarization, linear polarization, elliptical polarization

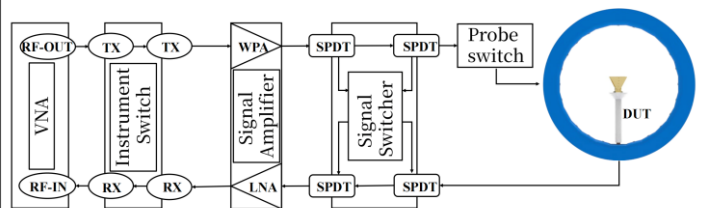


## RF Link diagram of multi probe spherical near-field testing system 多探头球面近场测试系统射频链路图

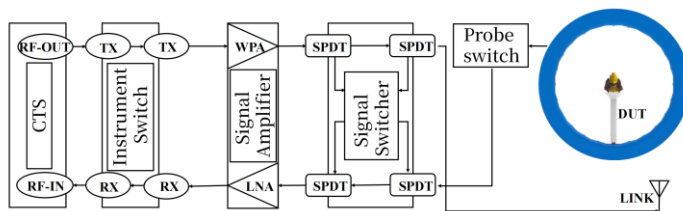
RF Link Overview  
总射频链路图



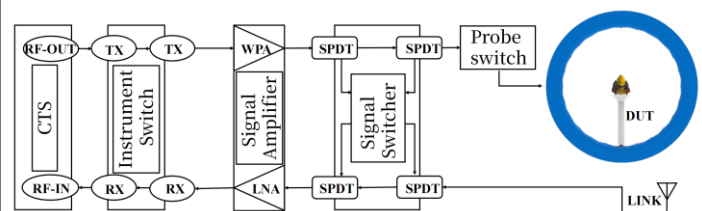
RF Link of Passive measurement  
无源测试链路图



RF Link Overview  
总射频链路图



RF Link of Passive measurement  
无源测试链路图



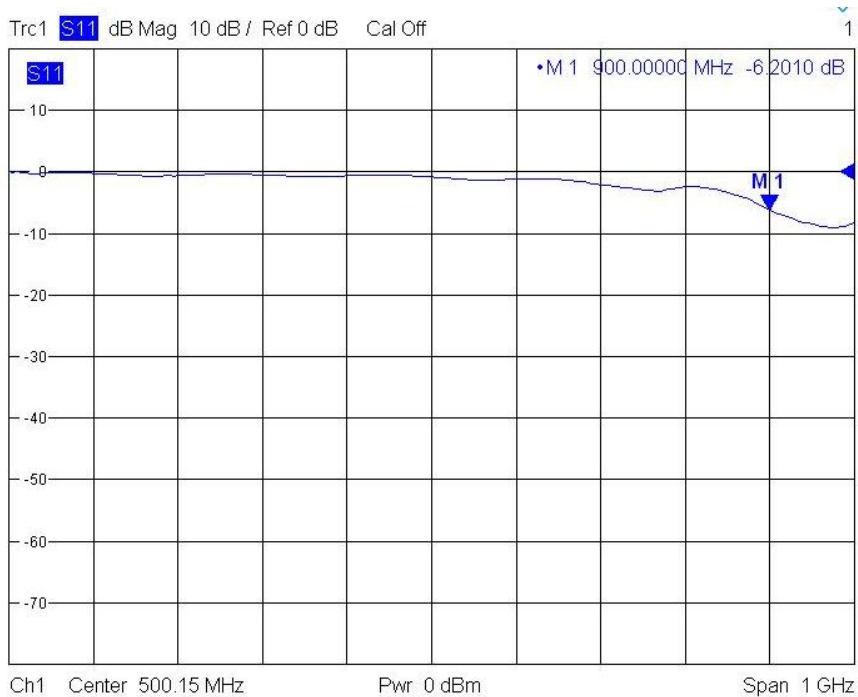


## 6. 性能数据 / Performance Data

### 6.1 电压驻波比 / VSWR

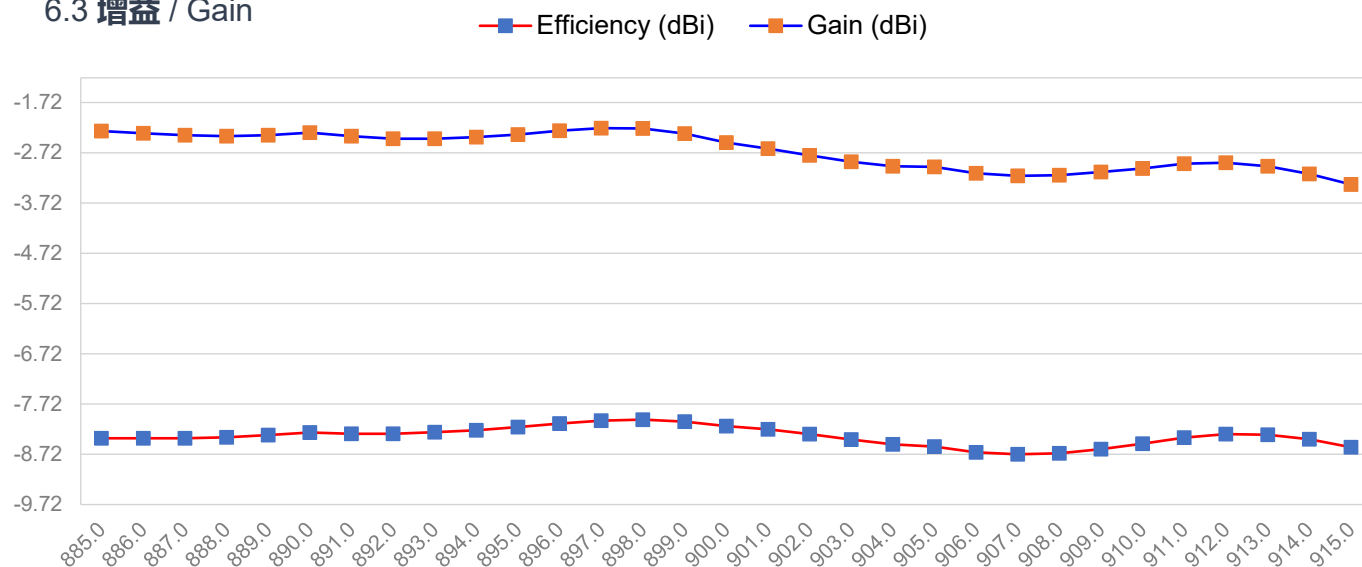


### 6.2 回波损耗 / Return Loss

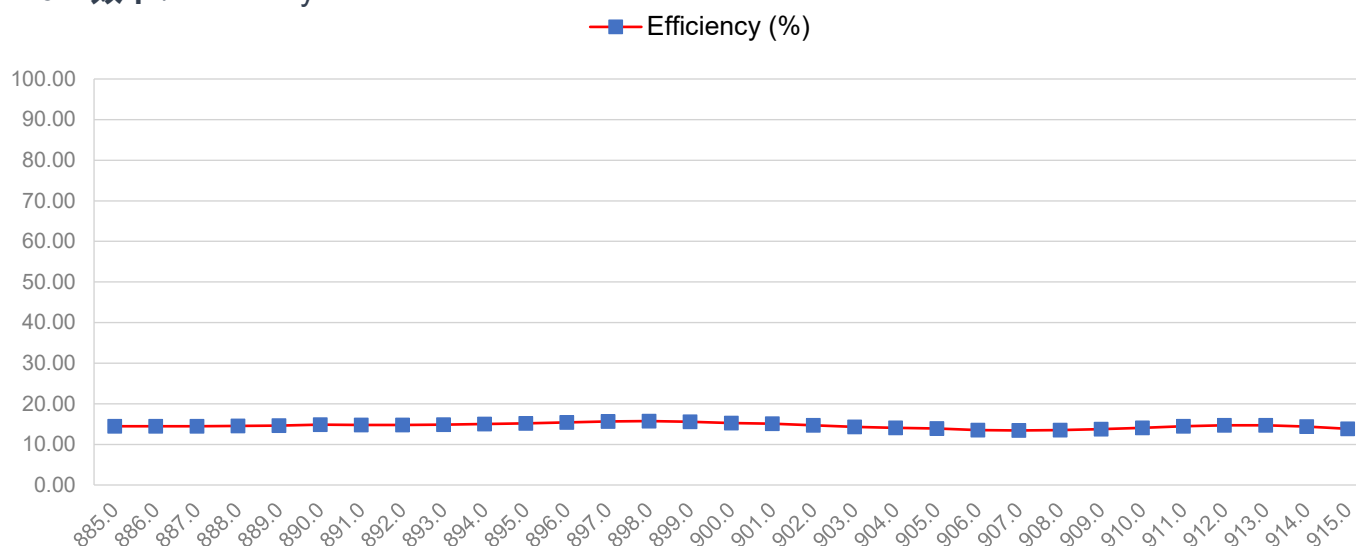


## 6. 性能数据 / Performance Data

### 6.3 增益 / Gain



### 6.4 效率 / Efficiency

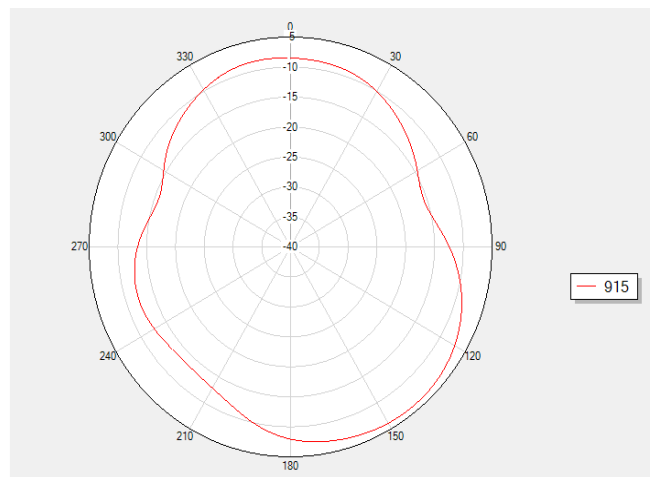
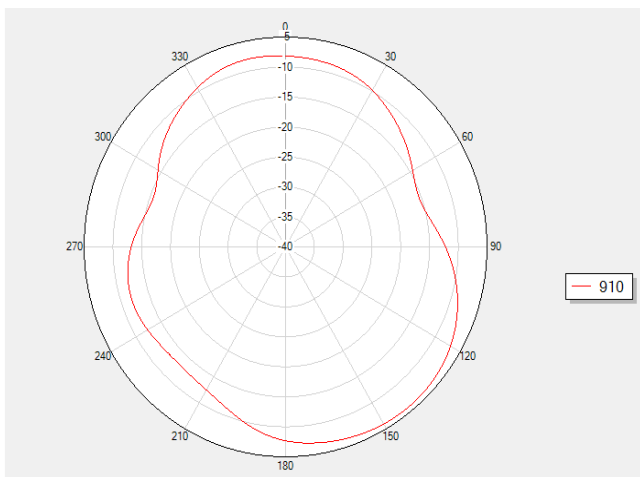
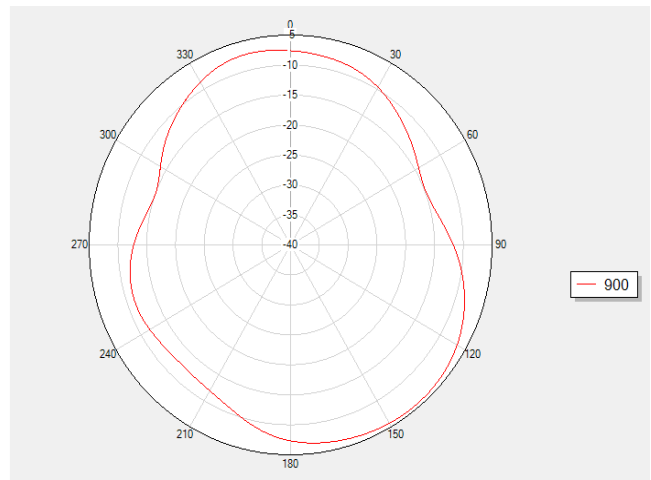
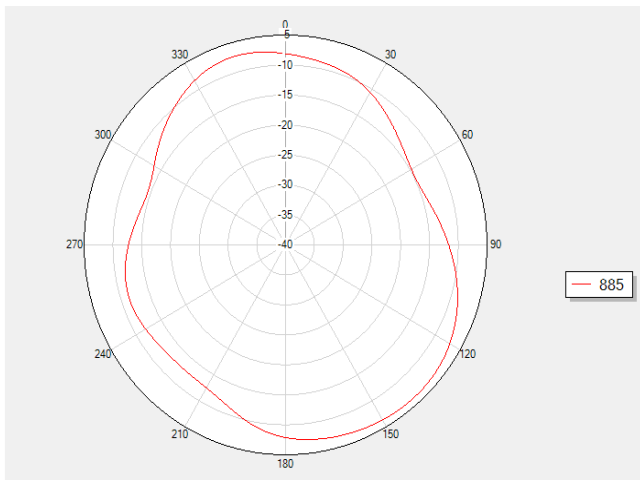


### 6.5 天线增益与效率 / Gain & Efficiency

| 频率 / Frequency (MHz) | 885   | 900   | 915   |
|----------------------|-------|-------|-------|
| 最大增益 / Gain (dBi)    | -2.29 | -2.52 | -3.35 |
| 效率 / Efficiency (%)  | 14.45 | 15.28 | 13.87 |

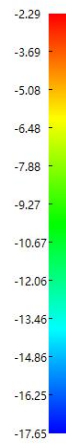
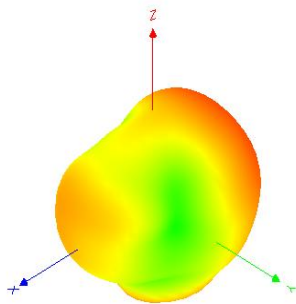
## 7. 辐射模式 / Radiation Patterns

### 7.1 2D 辐射模式图 / Radiation Patterns

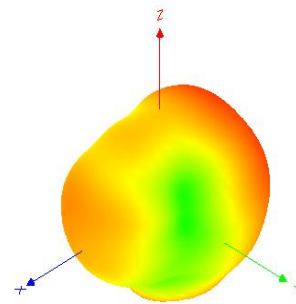


## 7.2 3D辐射模式图 / 3D Radiation Patterns

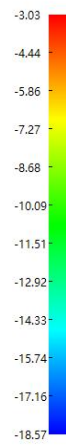
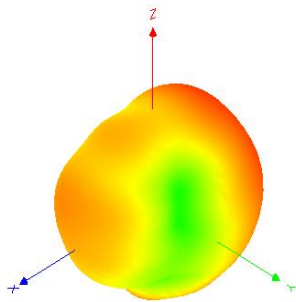
Frequency (MHz) : 885



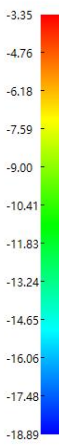
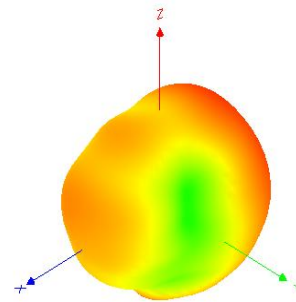
Frequency (MHz) : 900



Frequency (MHz) : 910



Frequency (MHz) : 915





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