

1.1 Specifications

| | |
|---|---------------------|
| 天线型号 Antennas Type | BWGPSZWX46-38JL1000 |
| 频率范围 Frequenc Range (MHz) | 1575.42 |
| 输入阻抗 Input Impedence (Ω) | 50 Ω |
| 电压驻波比 V. S. W. R | <1.8 |
| 增益 Gain (dBi) | 16-18dBi |
| 极化形式 Polarization Type | rhcp |
| 功率容量 Power Capacity (w) | 50 |
| 雷电保护 Lingtning Protection | None |
| 工作电压 DC Voltage (V) | 3.3v |
| 天线尺寸 Dimension (mm) | 46x38x17 |
| 接口形式/Connector Type: | SMA 内螺内针 |
| 电缆型号 Cable type (mm) | RG174 |
| 电缆长度 Cable length (mm) | 1000 |
| 辐射体 Radiator | None |
| 天线颜色 Color | 黑色 Black |
| 重量 Weight (g) | None |
| 工作温度 Operating Temperature ($^{\circ}\text{C}$) | -40~80 |
| 储藏温度 Storage Temperature ($^{\circ}\text{C}$) | -20~85 |

1.2 Antenna Picture



上图型号：BWGPSZWX46-38JL1000

（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).

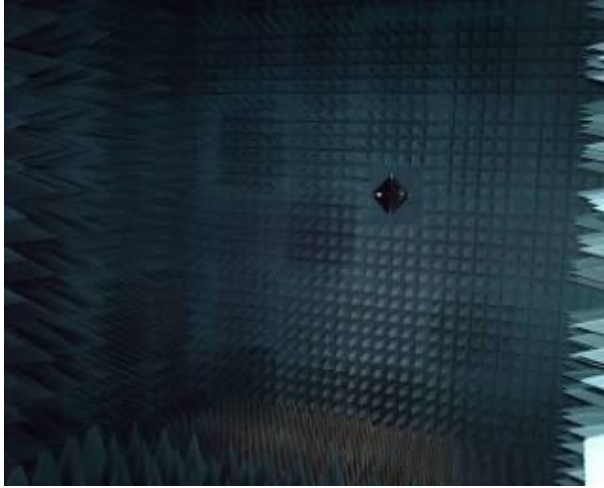


Figure.2



Figure.3

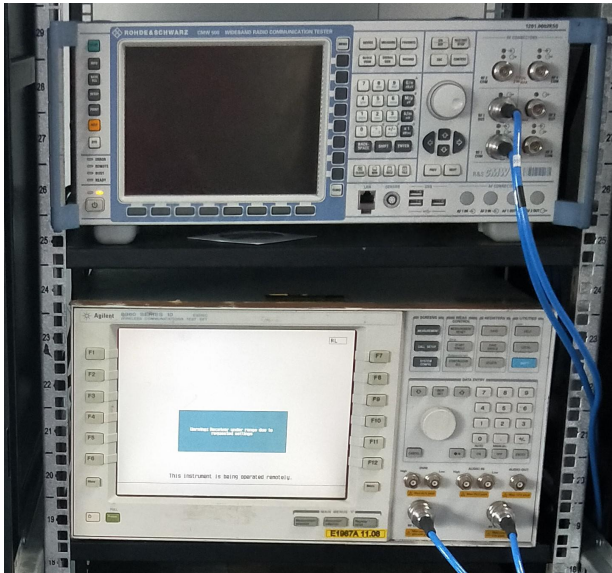


Figure.4

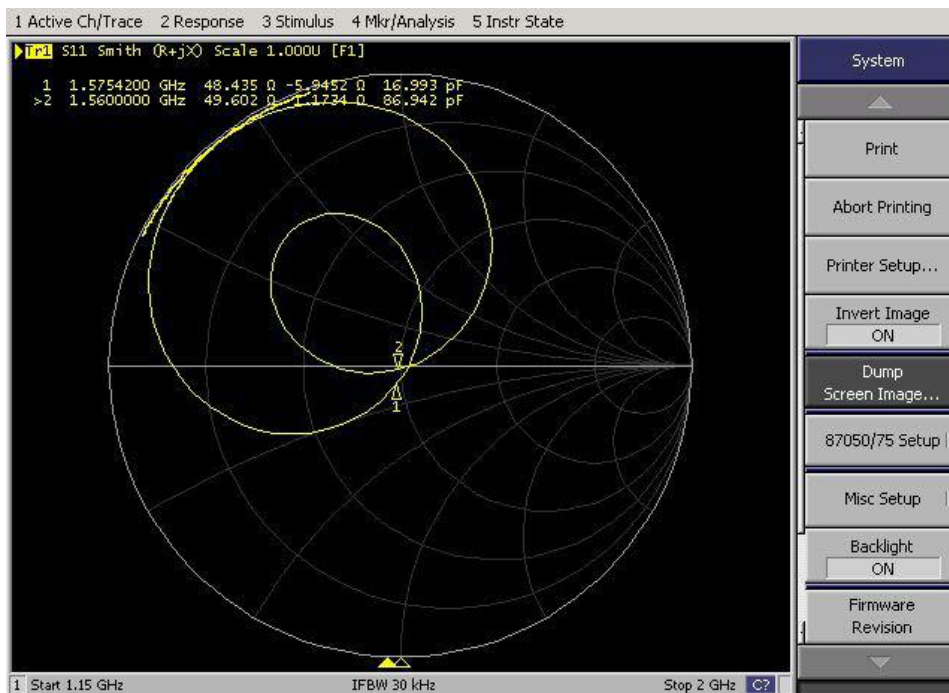
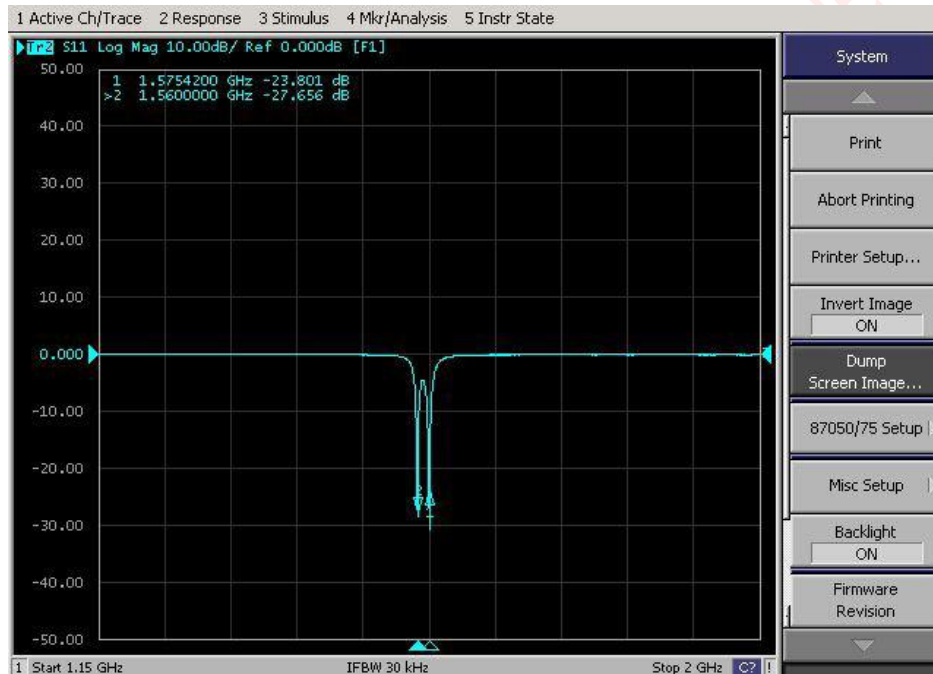


Figure.5

3. Performance Data

3.1 Passive data

VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)



*注：以上为实测数据，仅供参考；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。

4.Mechanical Specification

4.1 Assembly Drawing

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5.免责声明(Disclaimer)：

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