

1.1 Specifications

| | |
|---|---|
| 型号 Antennas Type | BWSMA-JKW |
| 阻抗 Impedence (Ω) | 50 Ω |
| 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) | 0~3GHz |
| 工作电压 DC Voltage (V) | 1000Vmax |
| 介质耐压 Withstand Voltage(V) | 1000Vrms (海平面) |
| 接触电阻 Contact resistance() | 内导体 \leq 3M Ω 外导体 \leq 2M Ω |
| 绝缘电阻 Insulation resistance | \geq 5000M Ω |
| 插入损耗 Insert Loss | 0.15dB(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 |
| 外壳 shell | HPb59-1(黄铜)镀金 |
| 内导体 Inner conductor | HPb59-1(黄铜)镀金 |
| 螺套 threaded sleeve | HPb59-1(黄铜)镀金 |
| 密封圈 seal ring | 硅胶 |
| 绝缘体 insulator | 聚四氟乙烯 |
| 重量 Weight(g) | None |
| 工作温度 Operating Temperature($^{\circ}$C) | -65~+165 (PE CABLE-40~+85) |

1.2 Antenna Picture



上图型号：BWSMA-JKW

（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

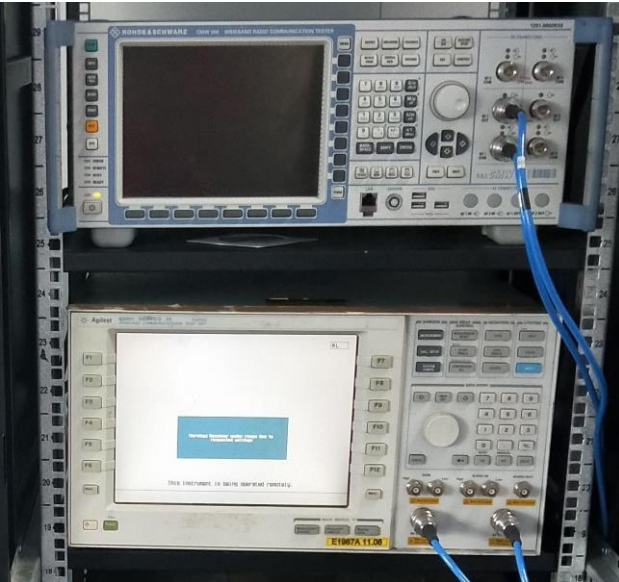


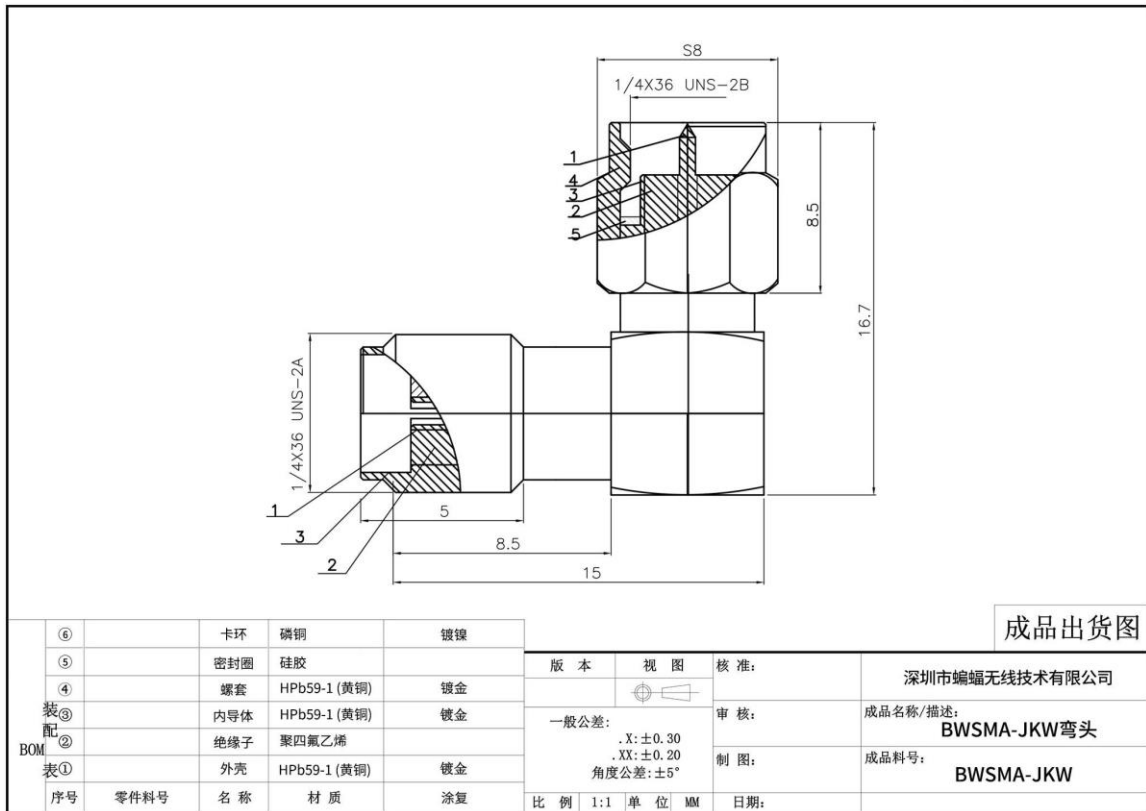
Figure.4



Figure.5

3. Mechanical Specification

3.1 Assembly Drawing



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