

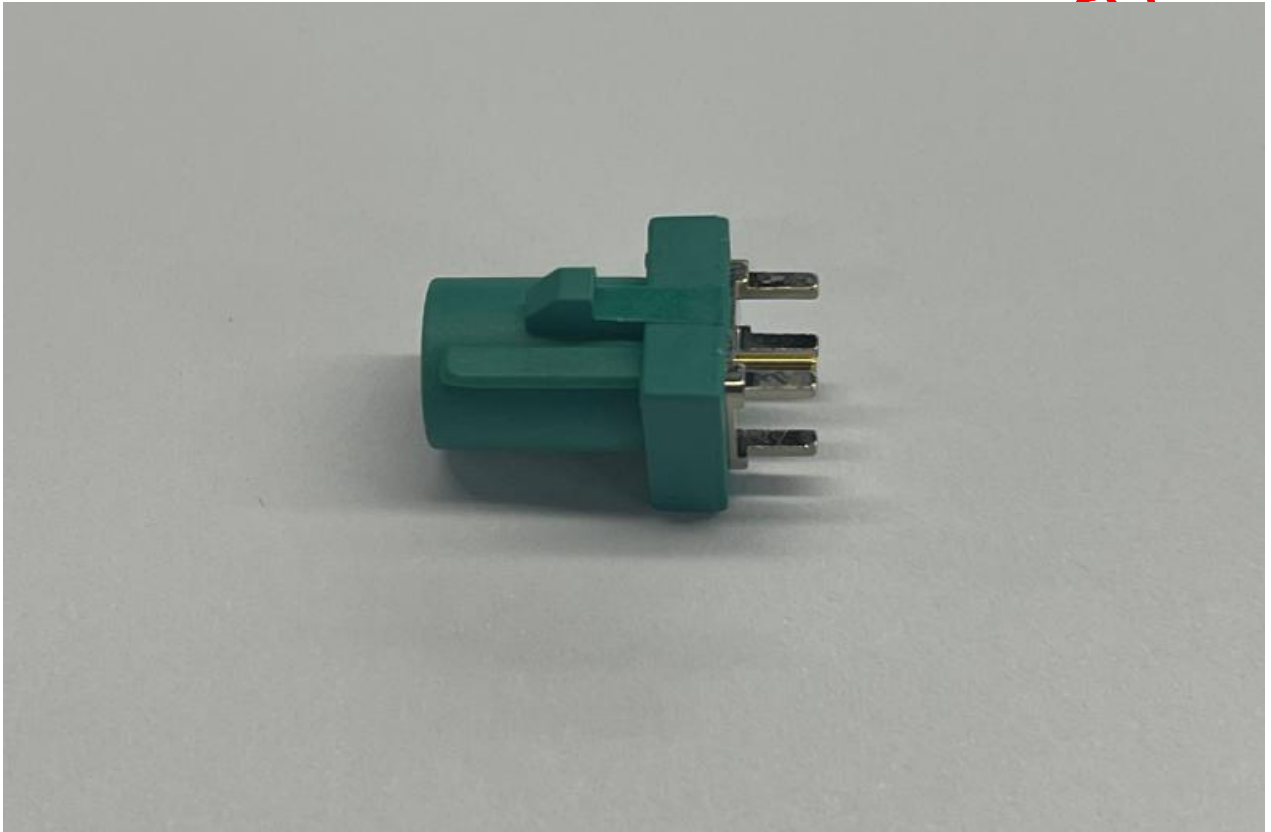




## 1.1 Specifications

型号 Antennas Type	BWFAK-JE-EB
阻抗 Impedence ( $\Omega$ )	50 $\Omega$
电压驻波比 V.S.W.R	<1.5
频率范围 Frequenc Range(GHz)	0~4GHz
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<6mOhm 外导体<1mOhm
绝缘电阻 Insulation resistance	$\geq 1000M\Omega$
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	PA66+30%GF
壳体 shell	黄铜镀镍
插针 contact pin	磷铜镀金
绝缘体 insulator	聚四氟乙烯
重量 Weight(g)	None
工作温度 OperatingTemperature( $^{\circ}C$ )	-40~+105
标准 APPLICABLE STANDARD	MIL-C-39012

## 1.2 Antenna Picture



上图型号：BWFAK-JE-EB

\*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).

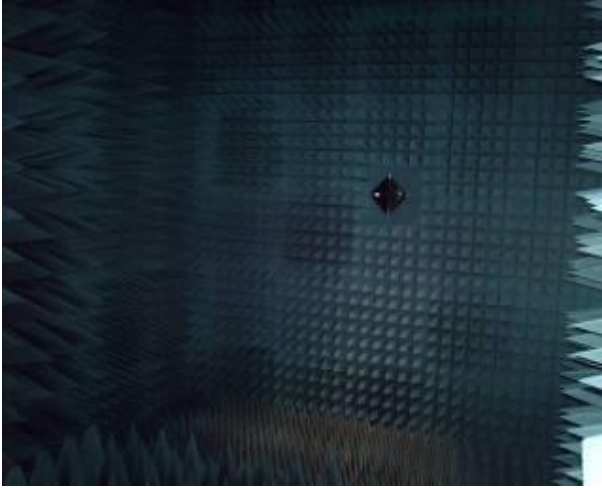


Figure.2



Figure.3

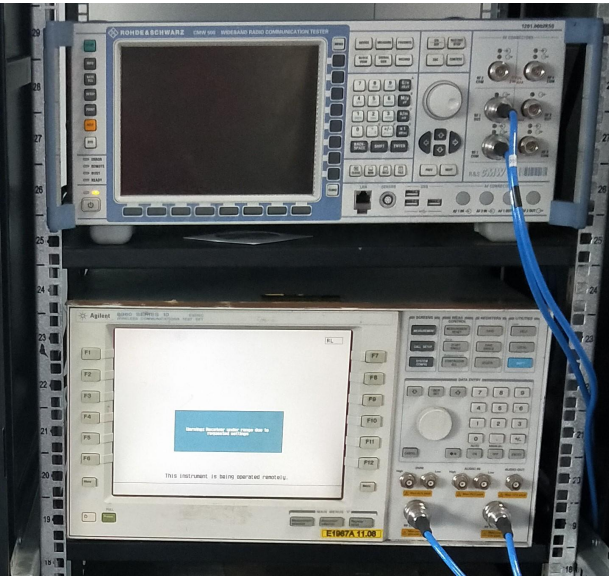


Figure.4

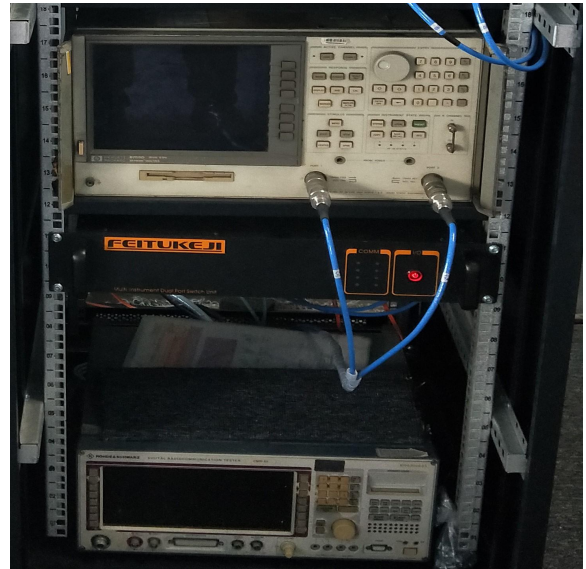
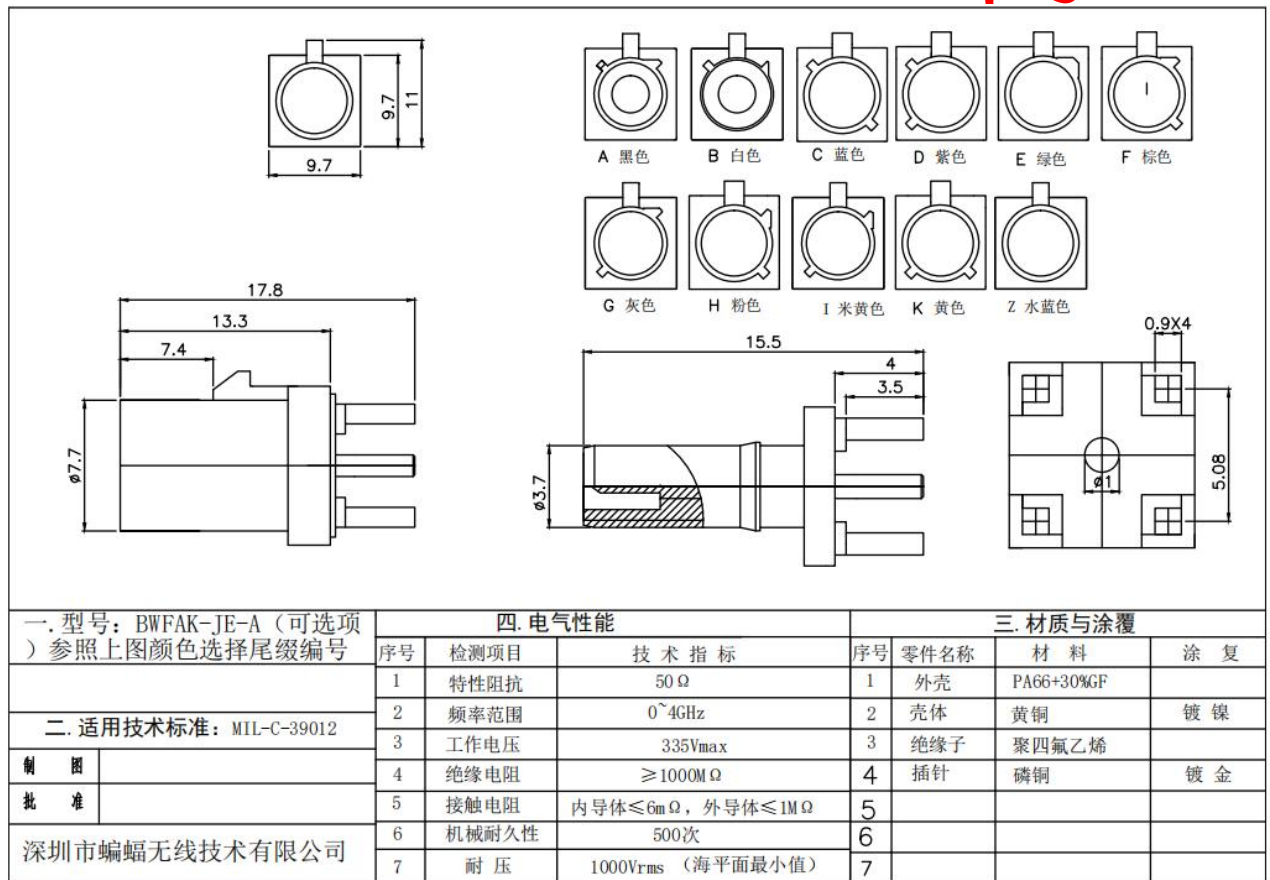


Figure.5

## 4. Mechanical Specification

### 4.1 Assembly Drawing



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