

承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

SMB天线连接器

规格型号 Part No:

SMB-JE

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	王宗华	
审核/Check	陈森森	
批准/Approved	张春华	

1.1 Specifications

型号 Antennas Type	SMB-JE
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)	0~4GHz
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 $\leq 5M\Omega$ 外导体 $\leq 2.5M\Omega$
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	HPb59-1(黄铜)镀金
内导体 Inner conductor	HPb59-1(黄铜)镀金
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: SMB-JE

(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).

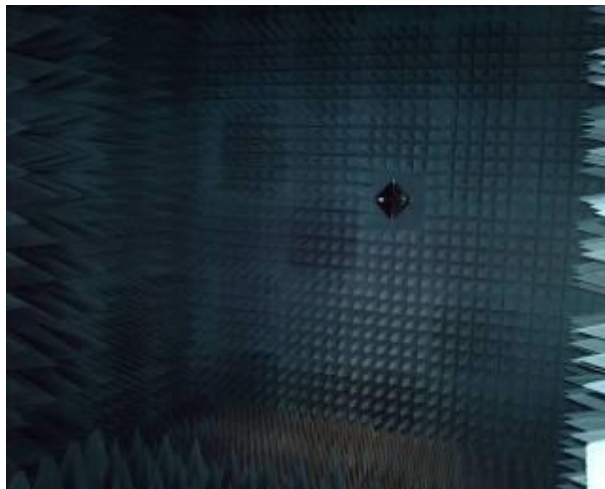


Figure.2



Figure.3

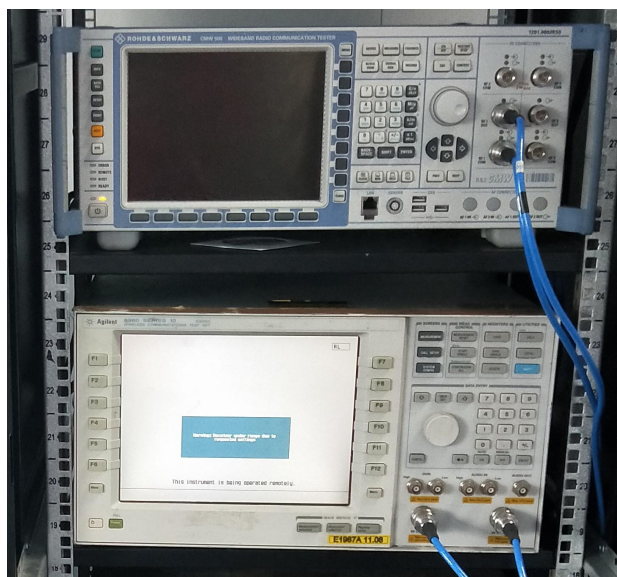


Figure.4

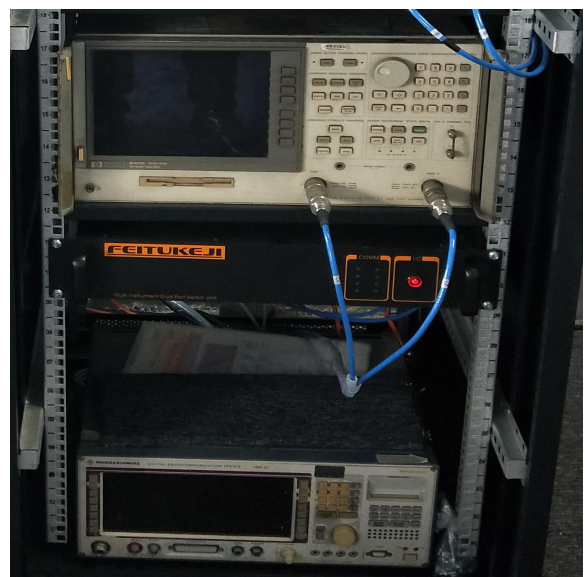


Figure.5

