

承 认 书
SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

SMA天线连接器

规格型号 Part No:

SMA-KWE

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	陈淼淼	
批准/Approved	张春华	

1.1 Specifications

型号 Antennas Type	SMA-KWE
阻抗 Impedence (Ω)	50Ω
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)	0-12. 4G(软电缆)
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<3mOhm 外导体<2mOhm
绝缘电阻 Insulation resistance	>5000 兆欧
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
PLUG 内径/JACK 外径	6. 5mm/5. 4mm
壳体 shell	黄铜镀硬金或不锈钢表面钝化
插针 contact pin	黄铜镀硬金
插孔 socket	镀青铜镀硬金
绝缘体 insulator	聚四氟乙烯
密封件 sealing	硅橡胶
压接套 crimp ferrule	铜合金镀镍
重量 Weight(g)	None
工作温度 OperatingTemperature(°C)	-65~+165（PE CABLE-40~+85）
标准 APPLICABLE STANDARD	MIL-C-39012、IEC169-15、CECC22110

1.2 Antenna Picture



上图型号：SMA-KWE

（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).

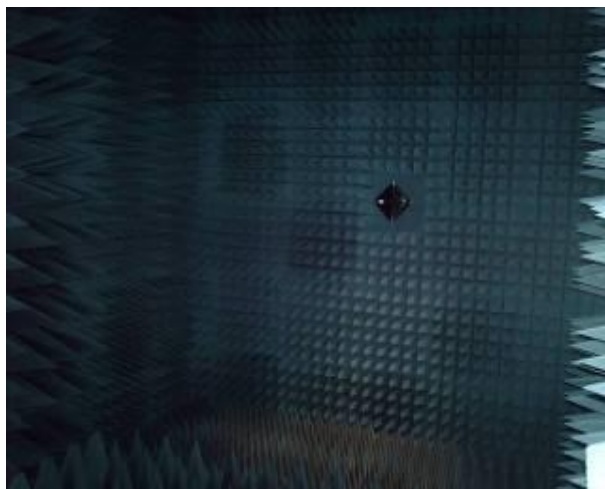


Figure.2

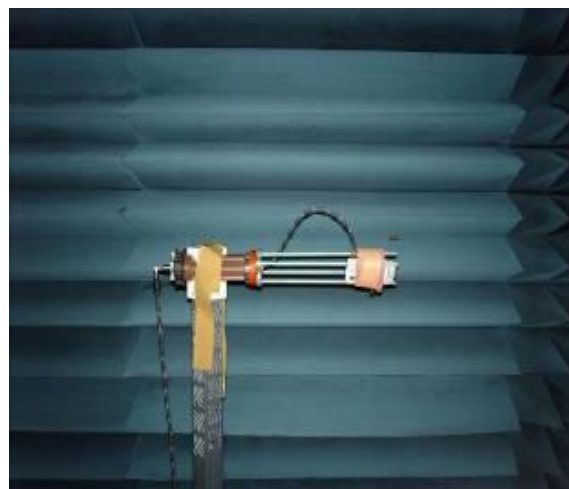


Figure.3

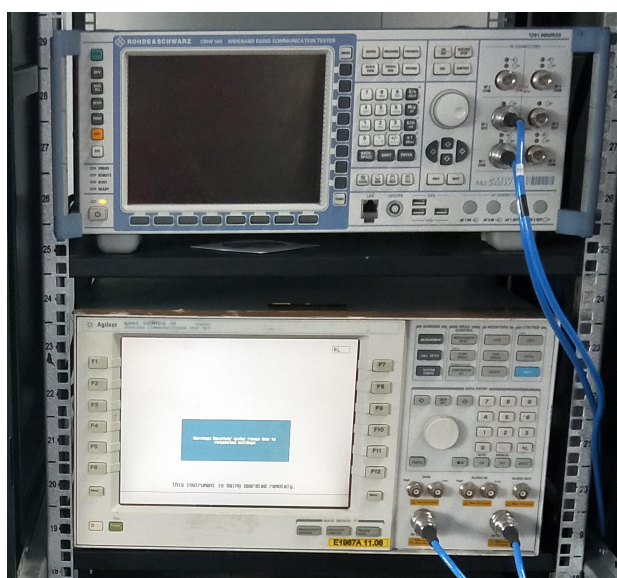


Figure.4

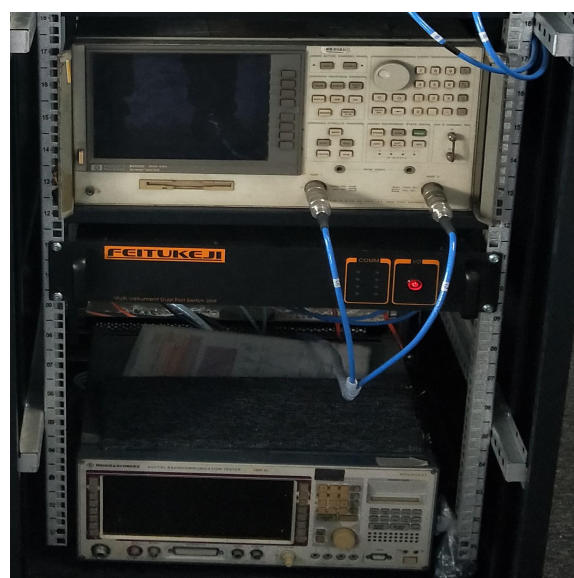
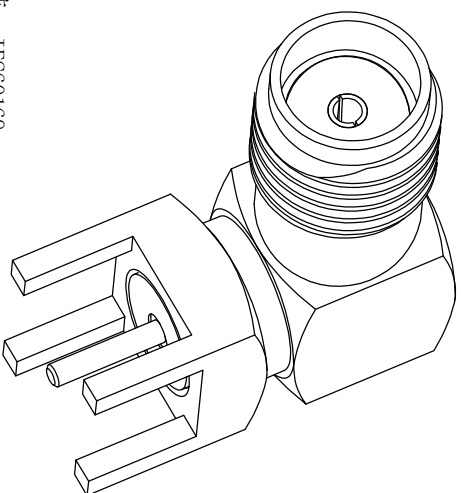
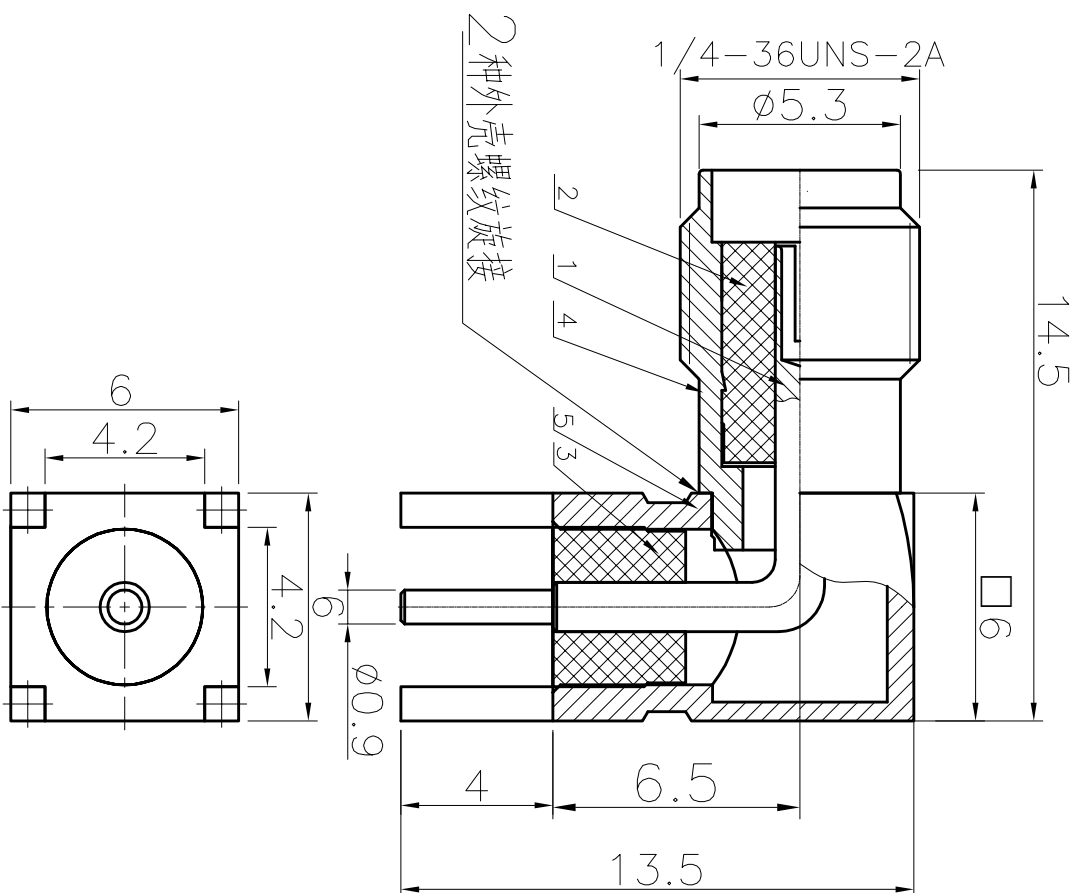


Figure.5



- ### 技术要求
- 1、执行标准：IEC60169
 - 2、特性阻抗：50 Ω
 - 3、频率范围：0 ~ 6GHz
 - 4、绝缘电阻： $\geq 5000\text{M}\Omega$
 - 5、介质耐压：1000V (AC 有效值)
 - 6、内导体分离力： $\geq 0.28\text{ N}$
 - 7、轴向保持力： $\geq 22\text{ N}$
 - 8、连接机构耐力距： $\geq 1.7\text{ N} \cdot \text{m}$
 - 9、机械寿命： $\geq 500\text{ 次}$
 - 10、温度范围： $-55^{\circ}\text{C} \sim 165^{\circ}\text{C}$
 - 11、接触电阻：外导体间 $<2\text{m}\Omega$ ，内导体间 $<3\text{m}\Omega$



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ECN BO.		DESCRIPTION.				DATE.		REV.			
DESIGNED		CHECKED		APPROVAL		DRAWING NUMBER		SCALE: 3:1			
Mikey		Tom		Jerry		PART NAME		SMA-KWE			
						MODEL NAME		SMA-KWE			
						3RD ANGLE PROJ		HanElectricity Co.,LTD			
								X. X.X X.XX ANGULAR		+0.25 +0.20 +0.15 ±3	