

承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

MCX天线连接器

规格型号 Part No:

MCX-KE

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	MCX-KE
阻抗 Impedence (Ω)	50Ω
电压驻波比 V.S.W.R	<1.2+0.02f（GHZ）
频率范围 Frequenc Range(MHz)	0-6G(软电缆)
工作电压 DC Voltage（V）	335V max
介质耐压 Withstand Voltage(V)	750Vrms
接触电阻 Contact resistance()	内导体 5mOhm 外导体 2.5mOhm
绝缘电阻 Insulation resistance	1000 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
壳体 shell	磷铜镀硬金
插针 contact pin	黄铜镀硬金
插孔 socket	铍青铜镀硬金
绝缘体 insulator	聚四氟乙烯
重量 Weight(g)	None
工作温度 OperatingTemperature(°C)	-40~+125（PE CABLE-40~+85）

1.2 Antenna Picture



上图型号：MCX-KE

（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).

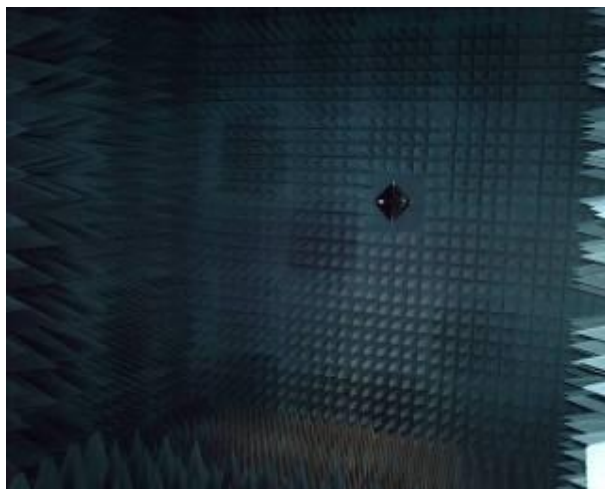


Figure.2

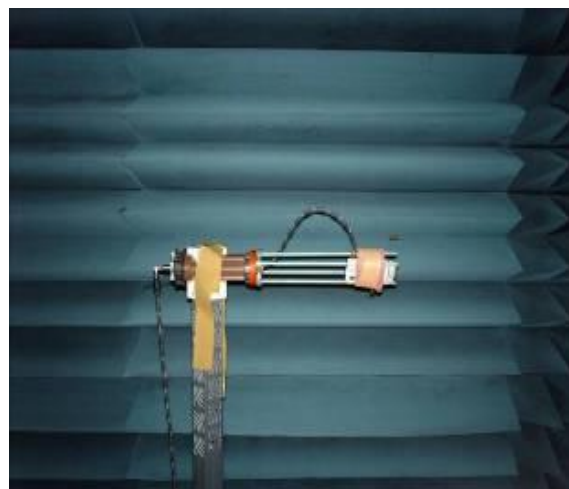


Figure.3

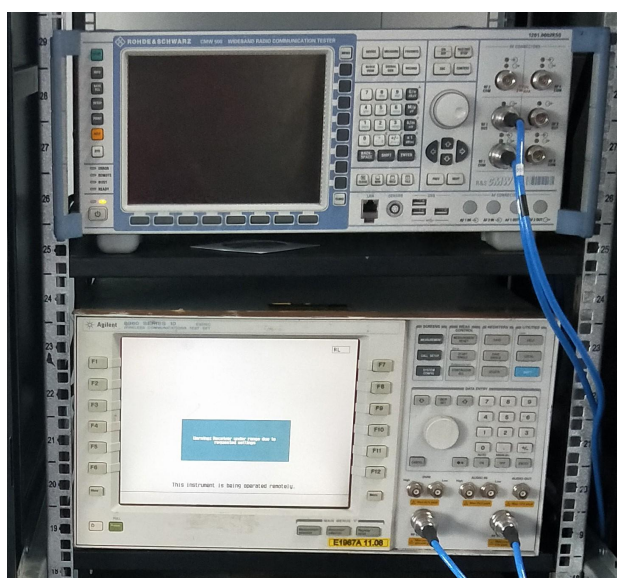


Figure.4

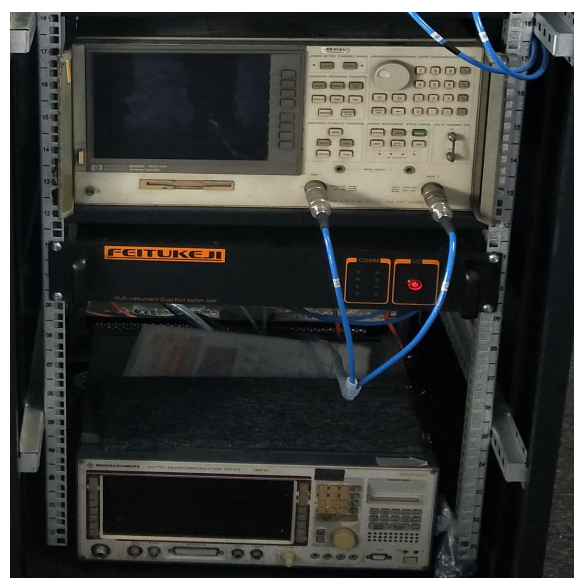
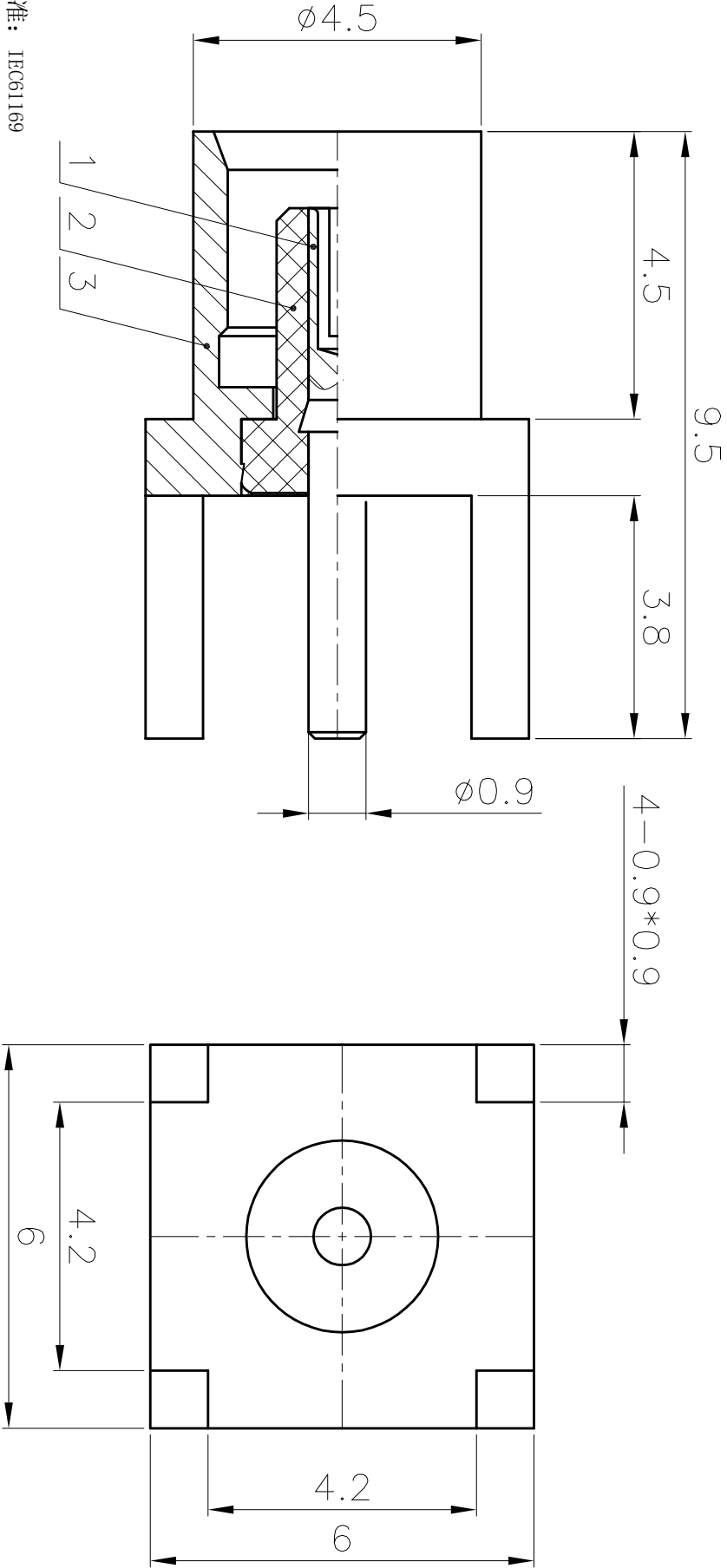


Figure.5



- 技术要求
- 1、执行标准：IEC61169
 - 2、特性阻抗：50Ω
 - 3、频率范围：0～6GHz
 - 4、绝缘电阻：≥1000MΩ
 - 5、介质耐压：1000V(AC有效值)
 - 6、内导体分离力：≥0.27N
 - 7、轴向保持力：≥10N
 - 8、外壳接插件啮合力：≤63N 分离力:8N(min)～20N(max)
 - 9、机械寿命：≥500次
 - 10、温度范围：-55℃～165℃
 - 11、接触电阻：外导体间<2.5mΩ，内导体间<5mΩ

3	ST8.034.081	外壳	HPb59-1	金	1	
2	ST7.890.070	绝缘体	PTFE		1	
1	ST7.744.079	插孔	HPb59-1	金	1	
序号	图号/编号	零件名称	材质	涂层	覆数量	备注

		new		2015/5/3		A		瀚源	
ECN BO.		DESCRIPTION.		DATE.		REV.			
DESIGNED	CHECKED	APPROVAL	DRAWING NUMBER			SCALE: 1/2			
Mikey		Tom		Jerry		3RD ANGLE PROJ			
		PART NAME		MCX - KE		UNLESS OTHERWISE SPECIFIED, TOLERANCE:		X. X.X X.XX ANGULAR	
		MODEL NAME		MCX - KE					
				HanElectricity Co.,LTD		FILE NO.			