

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).

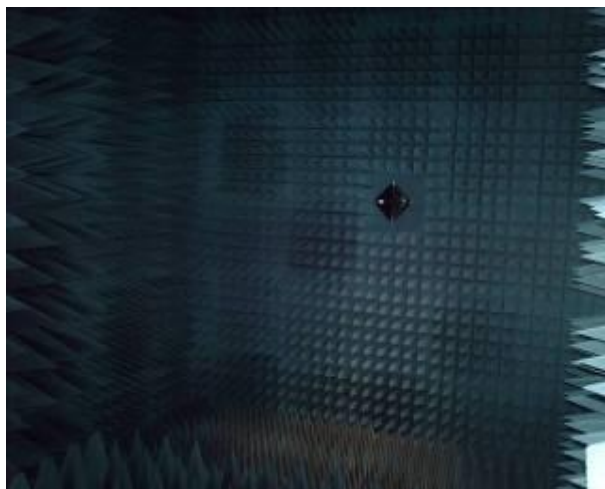


Figure.2

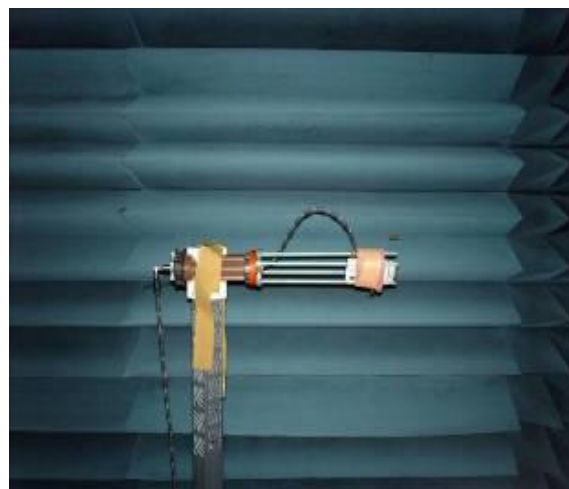


Figure.3

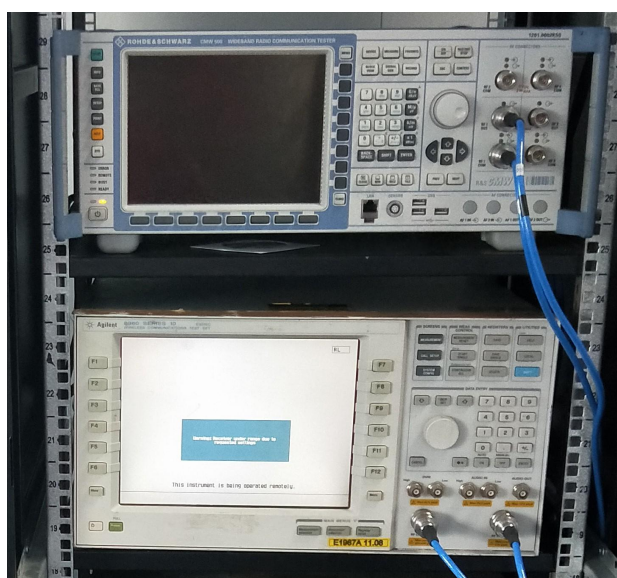


Figure.4

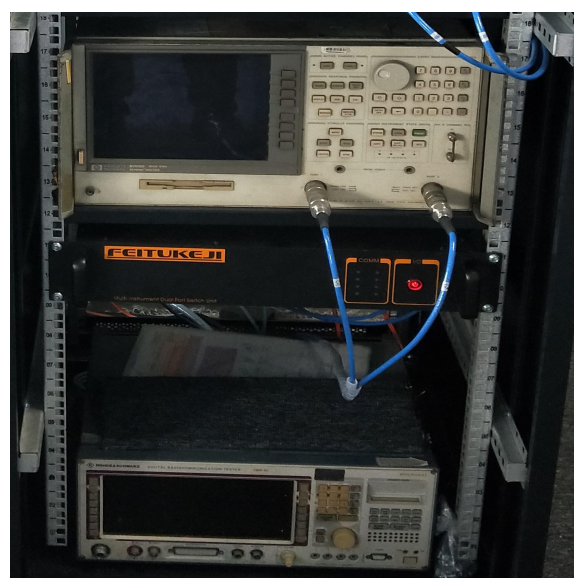
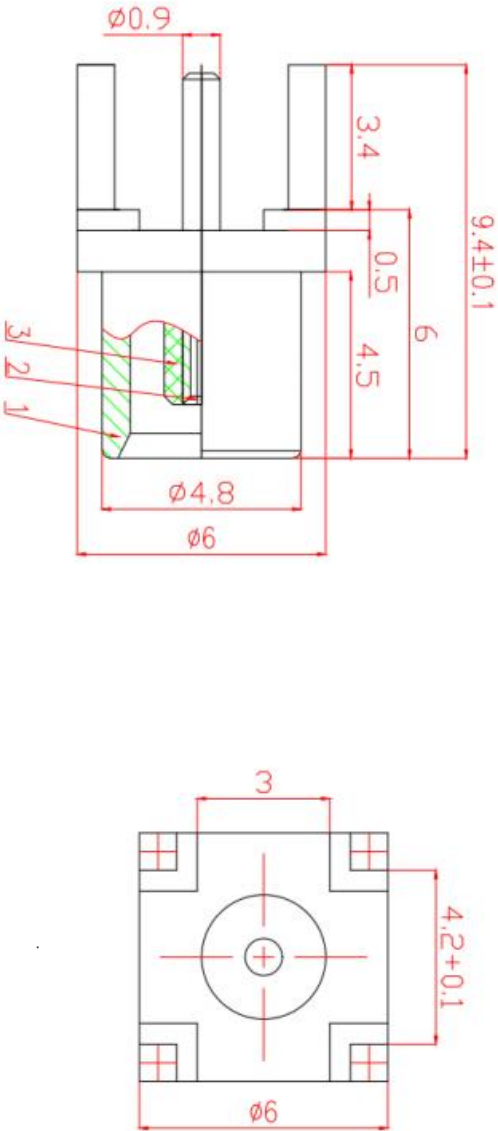


Figure.5



技术要求

1. 温度范围: -40℃~125℃
2. 标准阻抗: 50Ω
3. 频率范围: 0~6GHz
4. 介质耐压: 750V
5. 绝缘电阻: 1000MΩ
6. 接触电阻: 内导体5mΩ, 外导体2.5mΩ
7. 电压驻波比: ≤1.2(0~6GHz)
8. 耐用性: 500次
9. 所有尺寸单位为mm

BOM:

③	聚四氟乙烯SFX-1-1		1	
②	黄铜		1	
①	磷铜59-1		1	
No.	Name	PART No.	QTY	Remark

		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:		SCALE: 3:1
		MODEL NAME		MCX - KE		X.		
						X.x		
						X.xx		
						ANGULAR		
						±0.25		
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						±0.15		
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