



SPECIFICATION

Shenzhen DreamLNK Technology Co.,Ltd.
602-603, Building C, Zone A, Huameiju Plaza, Xinhua Ra., Baoan District, Shenzhen
518101, China

深圳市骏晔科技有限公司

Shenzhen DreamLNK Technology Co., Ltd.

910MHZ(弹簧)天线

910MHZ aerial Datasheet

客 户		频 段 frequency range	910MHz
线材名称 Wire name		版 本 version	A1
R F 设计 RF design	James wang	射频经理 Radio frequency manager	Knight Ai
结构设计 Structure design		结构经理 Structure manager	
技术总监 Technical Director		日 期 date	2017-05-22

客户确认 (Customer confirmation):

目录

封 面(the title page of a thread-bound book)	1
目 录(catalogue)	2
一、产品图片(product picture)	3
二、产品参数(Product Parameter)	3
三、S11 数据(S11 data)	4
四、产品结构图(Product structure diagram)	5
五、天线应用设计指导(Antenna application design guidance)	6
六、环境可靠性实验报告(Environmental reliability experiment report)	7

一、产品图片 product picture

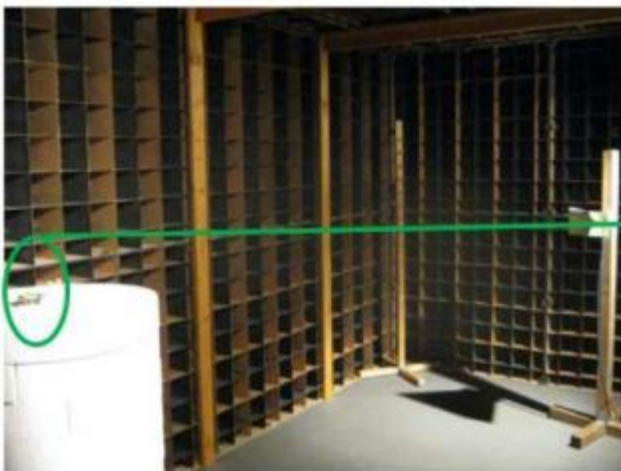
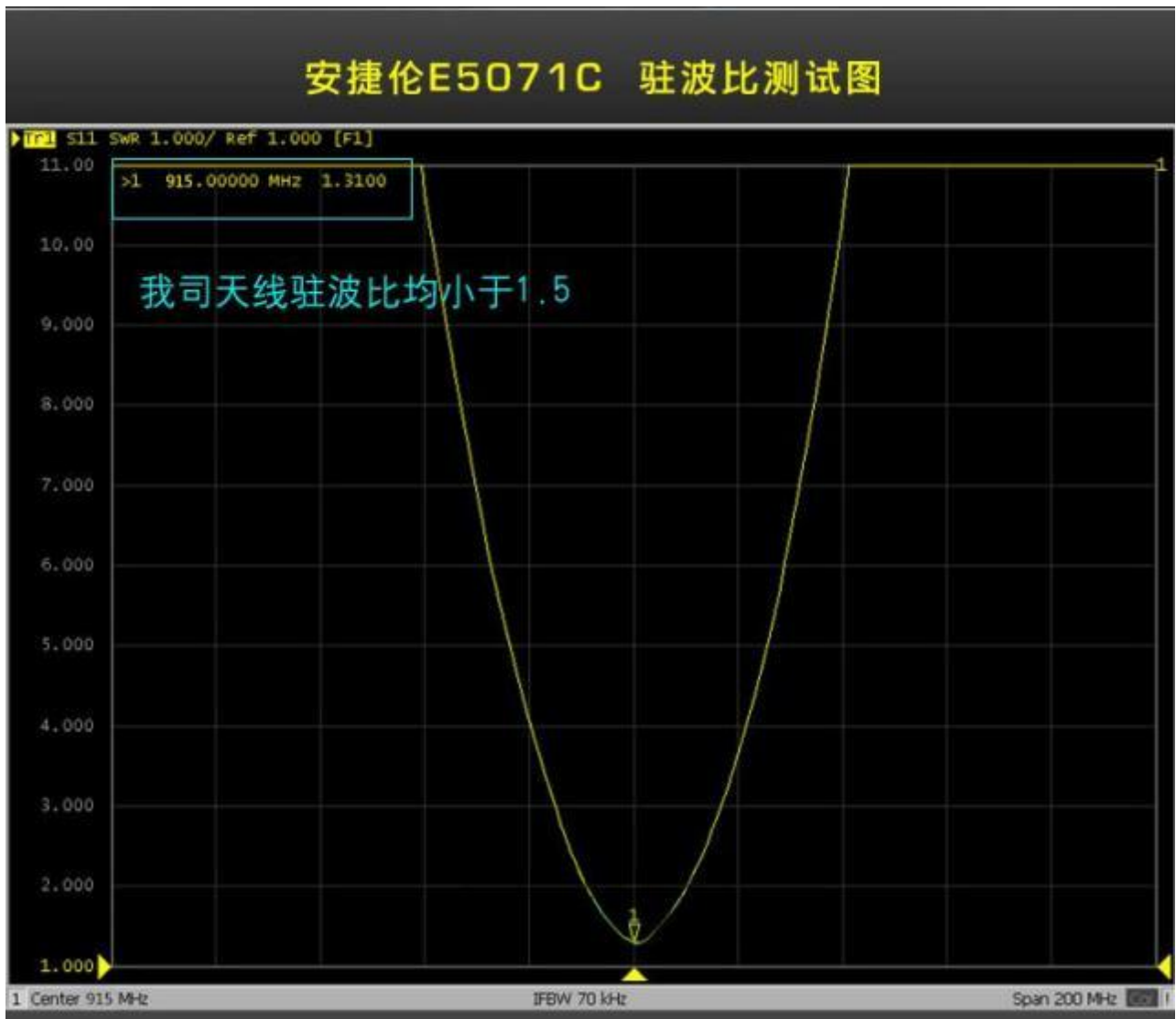


二、产品参数 Product Parameter

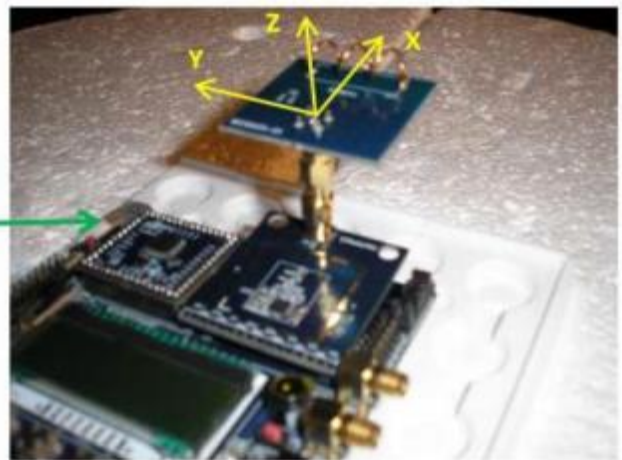
产品测试参数			
产品名称(Name)	910M aerial	产品型号(Model Type)	T1
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	915MHz	极化方式 (Polarization)	垂直 verticality
输入阻抗(Impedance)	50 Ω	辐射方向 (radiation direction)	全向 omnibearing
驻波比 (VSWR)	≤ 1.5	功率容量(Power)	50W
增益(Gain)	3dBi	带宽 (Bandwidth)	/
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	17.5mm	天线颜色(Chassis Color)	金色 aureate
天线材料 (Chassis Material)	磷铜镀金 Phosphorus copper gilt		
工作温度 (Working Temperature)	-40℃-+85℃	存放温度 (Limit Temperature)	-40℃-+85℃

We statement all measurements were performed radiated and therefore additional antenna gain documentation is not required.

三、S11 (VSWR 、 Return loss 、 Smith) 数据

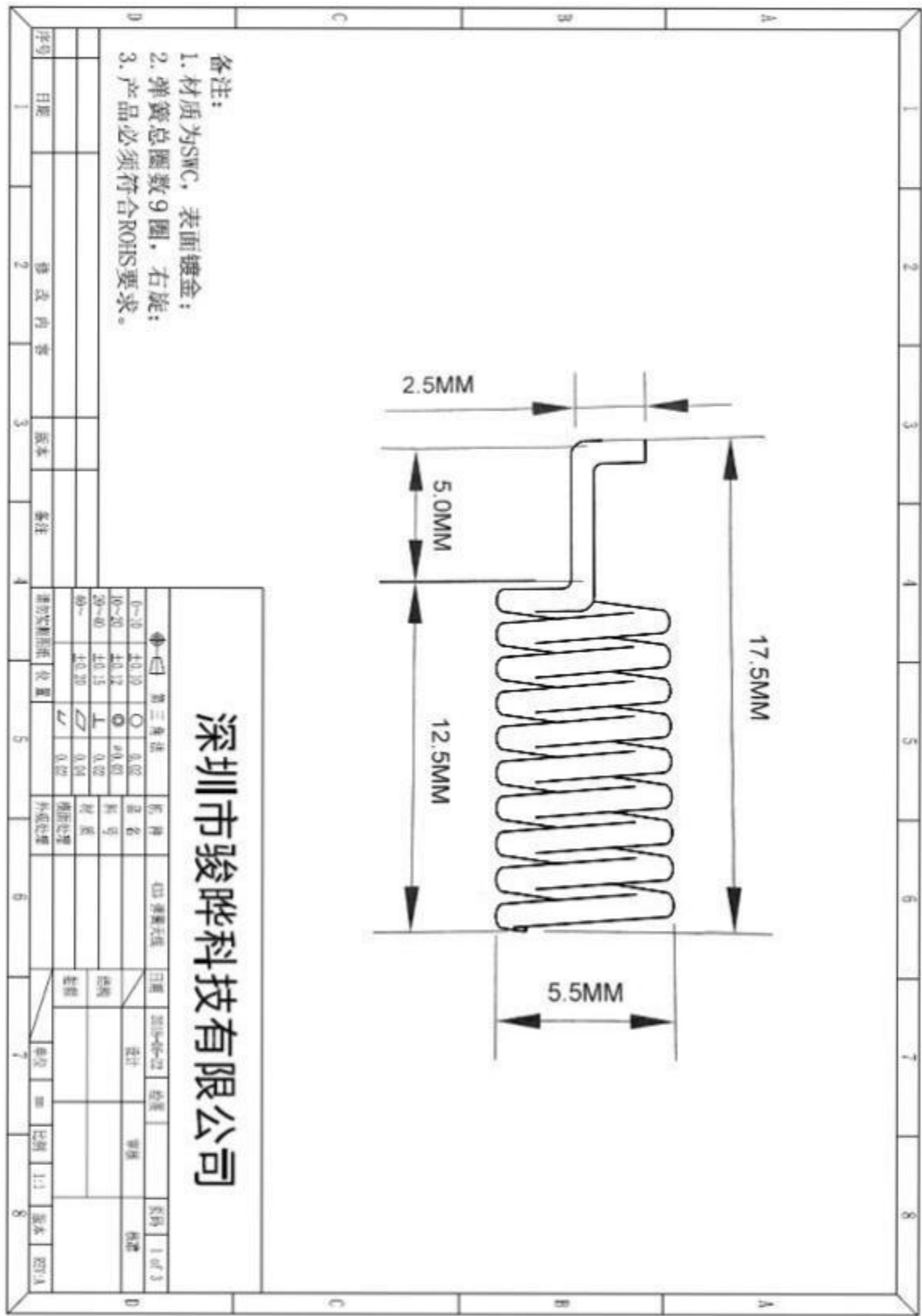


暗室测试

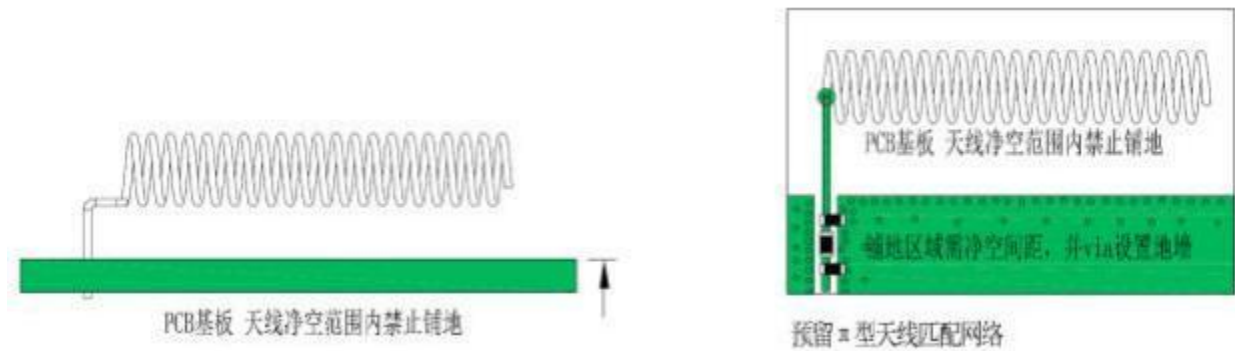


XYZ方向测试

四、结构图纸 structural drawings



五、天线应用设计指导Antenna application design guidance



Note: In the process of antenna design, the spring antenna is required to determine the position of the product, the Angle, the structure of the product, the product, the position of the input and output interface, and the position of the interference source inside the product. The π -type network is reserved to match the antenna. When debugging the antenna, please provide the whole product shell and the internal pcba function board, and calculate the external interference source and parasitic capacitance into the match, so that the antenna can achieve the best performance index and working efficiency. The left image shows the side view, and the right image shows the top view. The pcb routing of the matching network is 0.5mm line width, and 0.35mm spacing is laid on both sides of the network to maintain good impedance characteristics.

六、环境性能测试 Environmental performance test

项目 project	测试条件test condition	规格specifications
储存环境 Storage environment	The test temperature, humidity and air pressure are as follows: 1. The temperature is-30℃ ~80℃ 2. Relative humidity is 45% -85% 3. Air pressure is 86 kpa-106 kpa	PASS
高低温试验 thermocycling	Five cycles were performed between 70℃ and 40 and then checked for 1-2h under normal conditions. 。	PASS
耐恒定湿热试验 Constant humidity and heat trial	Relative humidity: 95 ± 3%, test temperature: 40℃. After a continuous 2-h treatment, Measure the electrical performance of the test article within 5min after its removal, and check the appearance quality for 1-2h under normal conditions	PASS
振动试验 vibration test	Dynamic frequency range of 10-55 hz, displacement amplitude: 0.35mm, acceleration amplitude: 50.0m/s, sweep cycle times: 30 times	PASS