
承认书

SPECIFICATION FOR APPROVAL

Customer:

Customer's part number:

Product description: 2.4G rubber duck Antenna

Uni Link's part number: KXWX-2.4G-Z

Issue Date: 201911/07

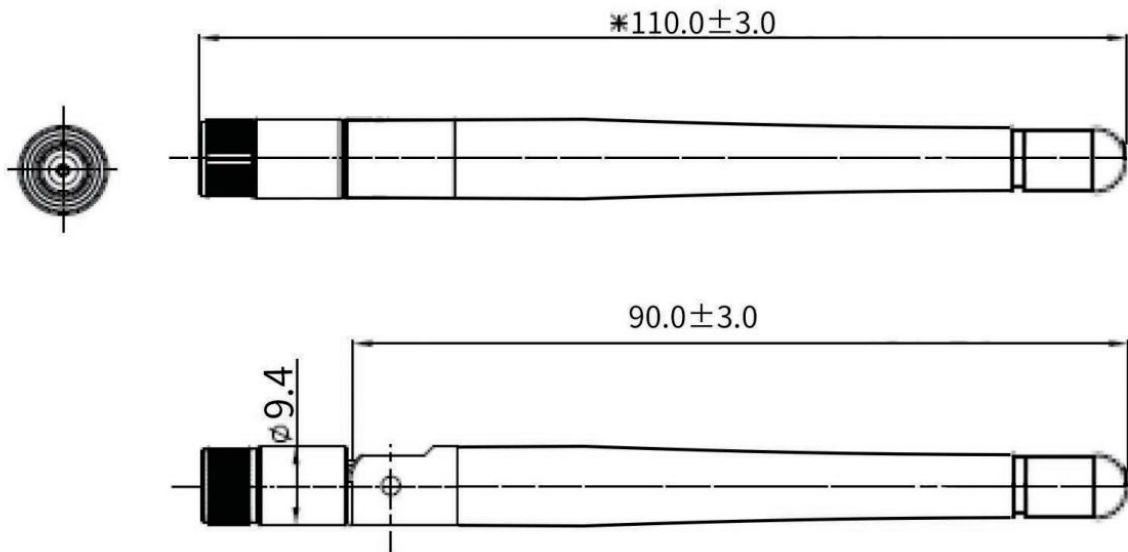
Note: 2400-2500MHz,SMA male

Customer Use		Customer's authorized signature	Remarks
Full approved			
Conditional approved			
Rejected			

一、产品参数

型 号	KXWX-433E-4
主要技术指标	
频率范围 (MHz)	2400-2500±5MHZ
频带宽度 (MHz)	10
电压驻波比	≤1.5
增益 (dBi)	1
最大功率 (W)	50
输入阻抗 (Ω)	50
极化形式	垂直极化
天线尺寸 (mm)	110+/-5
电缆长度 (mm)	
接口形式	SMA MALE
Model	
Main Technical Specifications	
Frequency Range (MHz)	2400-2500±5
Bandwidth (MHz)	10
VSWR	≤1.5
Gain (dBi)	1
Max Input power (W)	50
Input Impedance (Ω)	50
Polarization Type	Vertical
Antenna Size (mm)	110+/-5
Line Length (mm)	
Connector Type	SMA MALE

二、产品规格 (Specifications)



1. 电气测试 (Electrical Characteristic)

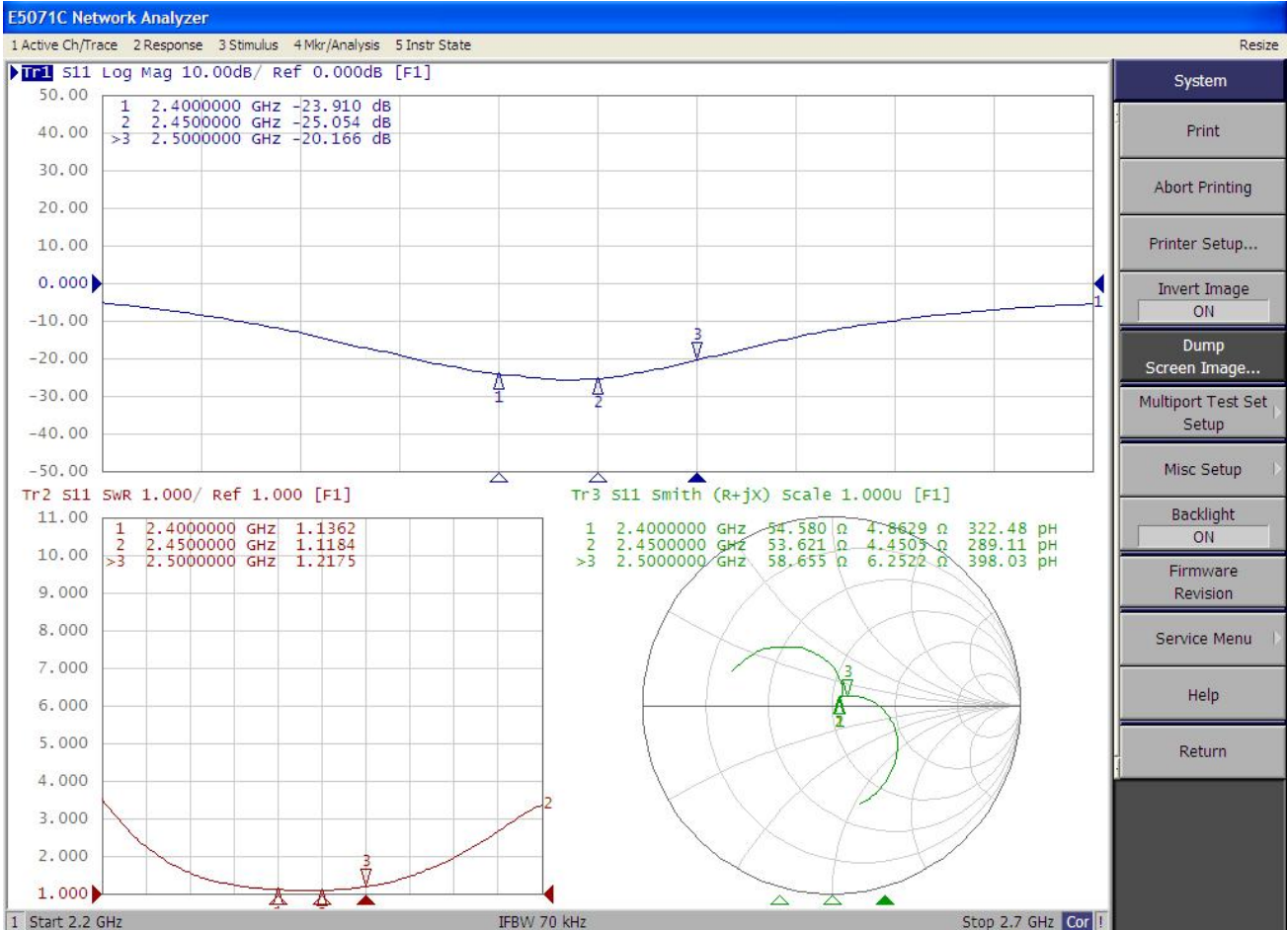
	ITEM 项目	TEST CONDITION 测试环境	SPECIFICATION 规格
1	电压驻波比 VSWR	Using PROTEK A333 networking analyzer to measure Antenna S1 VSWR characteristics 使用 PROTEK A333 网路分析仪测试天线 S1 之电压驻波比参数	PIC 1
2	阻抗 Smith Chart	Using PROTEK A333 networking analyzer to measure Antenna S1 Smith Chart characteristics 使用 PROTEK A333 网路分析仪测试天线 S1 之史密斯阻抗参数	PIC 2
3	增益响应 Gain Response	Using PROTEK A333 networking analyzer to measure Antenna S1 Gain Response characteristics 使用 PROTEK A333 网路分析仪测试天线 S1 之史密斯阻抗参数	

2. 机械性能 (MECHANICAL CHARACTERISTICS)

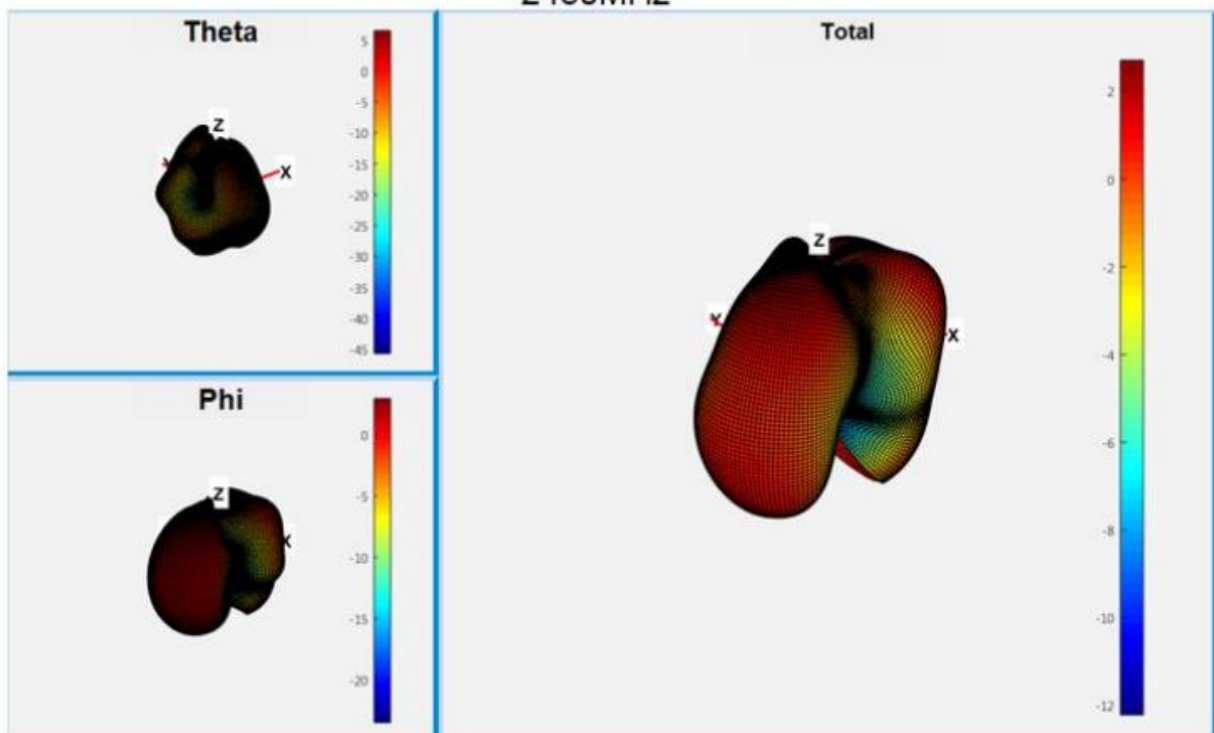
1	摇摆测试 BENDING TEST	<p>Put load 120g at the end of the wire, fixed joints, swaying test at an angle of 60 degrees , test features after 1000 times</p> <p>放离接头 30CM 的线端上荷重 120g，固定接头后进行摇摆测试，左右角度各 60 度，1000 次后测试特性.</p>	No sign of damage
2	强度测试 STRENG TEST	<p>15 pounds of static load applied to the bottom of the actinomycetes end for one minute.</p> <p>一个 15 磅之静负荷施加放线端底部持续一分钟.</p>	No sign of damage
3	拉力测试 PULLING FORCE	<p>Pull test with a tension meter between connector and wire</p> <p>用拉力计接头及线材间进行拉力测试.</p>	No sign of damage
4	振动测试 VIBRATION TEST	<p>the X-axis direction for 120 minutes, and the Y-axis direction 120 minutes, the Z-axis direction 240 minutes as vibration testing of 1.1mm amplitude and 33.30Hz/sec of frequency</p> <p>以 1.10mm 和振幅和 33.30Hz/sec 振动频率以 X 轴方向振动 120 分钟, Y 轴方向振动 120 分钟, Z 轴方向振动 240 分钟.</p>	No sign of damage

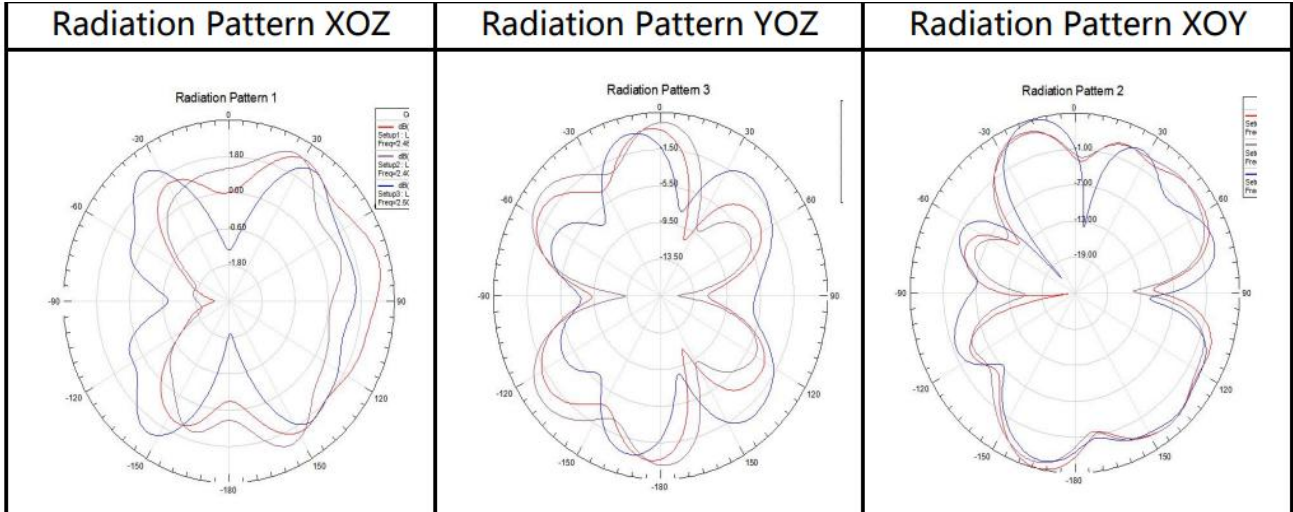
3. 耐久性测试 (DURABILITY)

1	盐雾试验 SAIT SPRAY TEST	盐水喷雾试验：依 GB1266-86 标准 蒸馏水：一次蒸馏 PH6.5~7 喷雾量：1.4me80cm ² /h 压缩空气压力：1Kgf/cm ² 试验相对度：98° 温度：45° ~47° 压力温度：35° 测试时间：96hr	所有规格变华范围初始值 30% All characteristic range is 30% of the initial value
2	高温试验 HEAT TEST	在 50 +/- 2 °C 环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 50 +/- 2 °C for 96 hours, after keep in normal condition for 30mim the to test.	
3	温试验 HUMIDITY TEST	在 40+2°C 90-95%RH 环境中放 96 小时，再放在正常环境中 30 分钟后进行测试 40+2°C 90-95%RH for 96hours, after keep in normal condition for 30mim the to test.	
4	低温试验 COLD TEST	在-40+2°C 环境中放 96 小时，再置放正常环境中 30 分钟后进行测试 -40+2°C for 96hours, after keep in normal condition for 30mim the to test.	



2450MHz





Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz