# SPECIFICATION FOR APPROVAL

Manufacturer: Shenzhen Kexin Wireless

Customer's part number:

Product description: 2.4G rubber duck Antenna

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

Issue Date: 201911/07

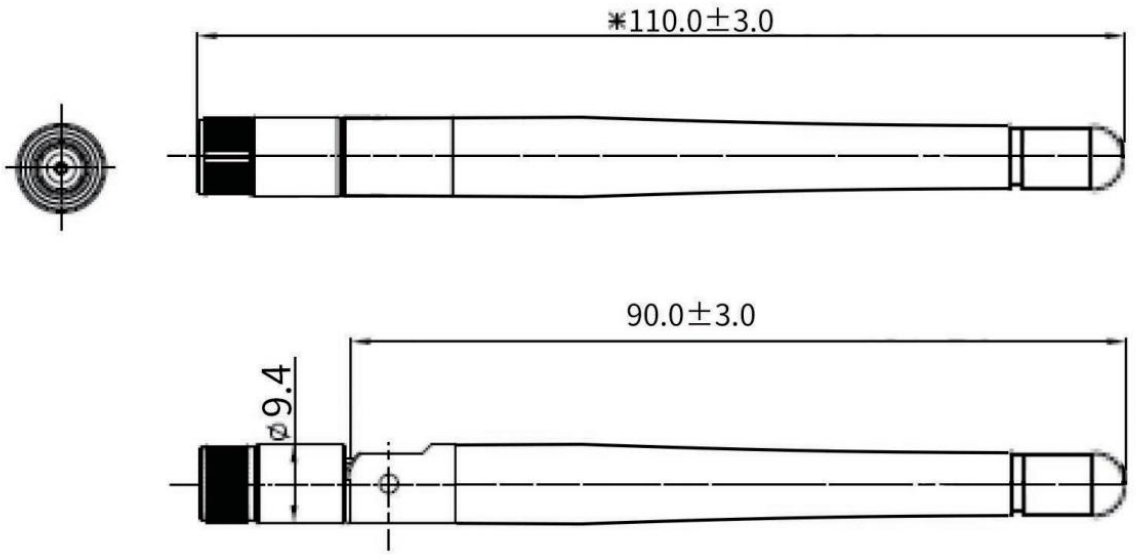
Note: 2400-2500MHz,SMA male

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

## 一、Main Technical Specifications

| Model | KXWX-433E-4 |
|---|---|
| Main Technical Specifications | |
| Frequency Range（MHz） | 2400-2500±5 |
| Bandwidth（MHz） | 10 |
| VSWR | ≤1.5 |
| Gain（dBi） | 3 |
| 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、Specifications



## 1.Electrical Characteristic

| | ITEM | TEST CONDITION | SPECIFICATION |
|---|---|---|---|
| 1 | VSWR | Using PROTEK A333 networking analyzer to measure Antenna S1 VSWR characteristics | PIC 1 |
| 2 | Smith Chart | Using PROTEK A333 networking analyzer to measure Antenna S1 Smith Chart characteristics | PIC 2 |
| 3 | Gain Response | Using PROTEK A333 networking analyzer to measure Antenna S1 Gain Response characteristics | |

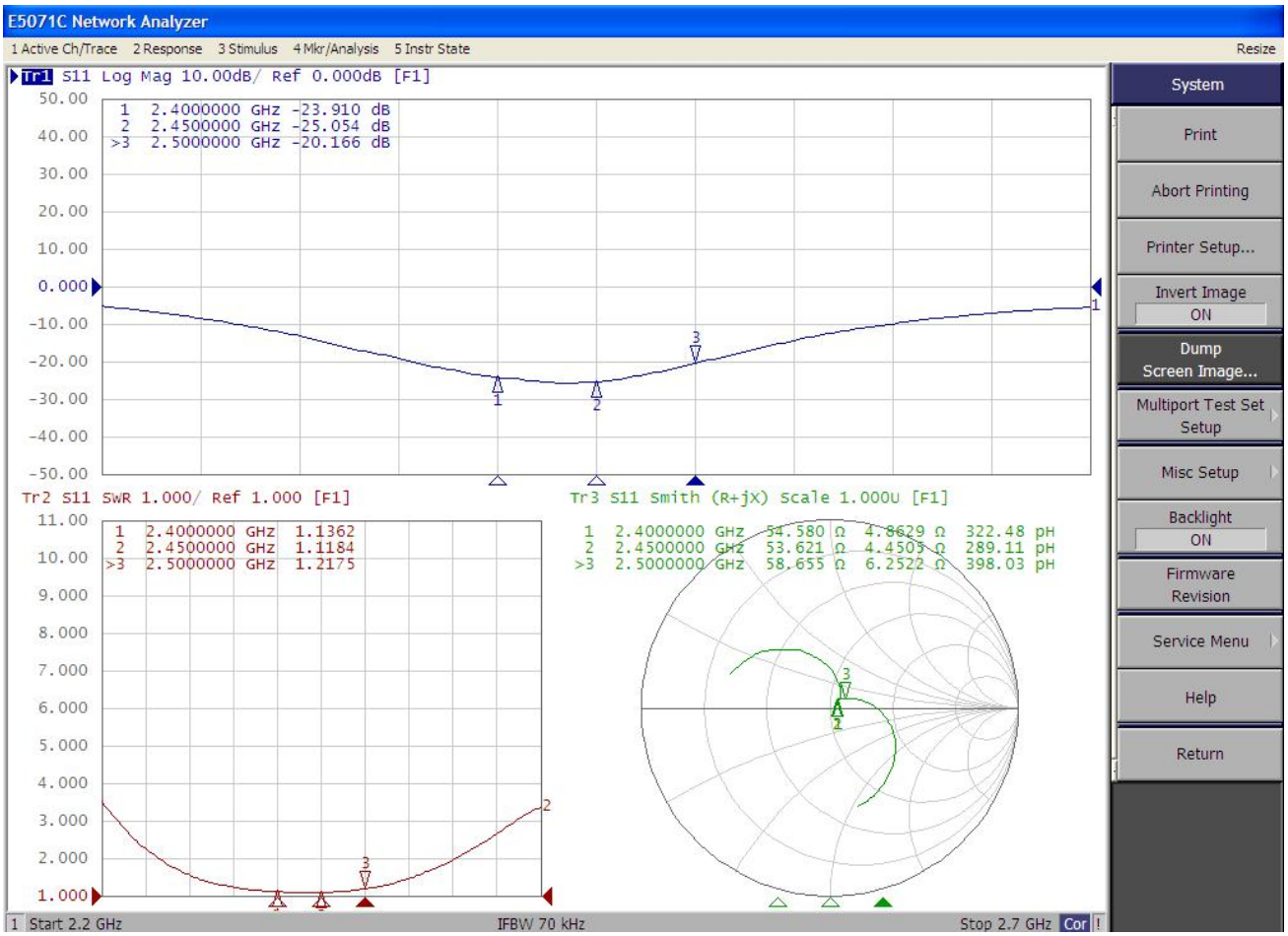
## 2. MECHANICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| 1 | BENDING TEST | Put load 120g at the end of the wire, fixed joints, swaying test at an angle of 60 degrees , test features after 1000 times | No sign of damage |
| 2 | STRENG TEST | 15 pounds of static load applied to the bottom of the actinomycetes end for one minute. | No sign of damage |
| 3 | PULLING FORCE | Pull test with a tension meter between connector and wire | No sign of damage |
| 4 | VIBRATION TEST | 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 | No sign of damage |

## 3. DURABILITY

| | | | |
|---|---|---|---|
| 1 | SAIT SPRAY TEST | Salt water spray test: in accordance with GB1266-86<br>Distilled water: one distillation<br>PH6.5~7<br>Spray volume: 1.4me80cm² /h<br>Compressed air pressure: 1kgf/cm ²<br>Relative test angle: 98℃<br>Temperature: 45℃~47℃<br>Pressure and temperature: 35℃<br>Testing time: 96 hours | All characteristic range is 30% of the initial value |
| 2 | HEAT TEST | 50 +/- 2 ℃ for 96 hours, after keep in normal condition for 30mim the to test. | |
| 3 | HUMIDITY TEST | 40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30mim the to test. | |
| 4 | COLD TEST | -40+2℃ for 96hours, after keep in normal condition for 30mim the to test. | |

PIC 1


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Resize
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]
1 2.4000000 GHz -23.910 dB
2 2.4500000 GHz -25.054 dB
>3 2.5000000 GHz -20.166 dB
Tr2 S11 SWR 1.000/ Ref 1.000 [F1]
1 2.4000000 GHz 1.1362
2 2.4500000 GHz 1.1184
>3 2.5000000 GHz 1.2175
Tr3 S11 Smith (R+jX) Scale 1.000U [F1]
1 2.4000000 GHz 54.580 Ω 4.8629 Ω 322.48 pH
2 2.4500000 GHz 53.621 Ω 4.4503 Ω 289.11 pH
>3 2.5000000 GHz 58.655 Ω 6.2522 Ω 398.03 pH
1 Start 2.2 GHz
IFBW 70 kHz
Stop 2.7 GHz
Cor
System
Print
Abort Printing
Printer Setup...
Invert Image
ON
Dump Screen Image...
Multiport Test Set Setup
Misc Setup
Backlight
ON
Firmware Revision
Service Menu
Help
Return