



## 规格书 Specification

客户名称:

CUSTOMER:

福州金威航信息科技有限公司

客户料号:

CUSTOMER P/N:

客户品名:

DESCRIPTION:

捷雷料号:

P/N:

捷雷品名:

PART NO:

弹簧天线; V1.0

| 核准           | 审核           | 编制           |
|--------------|--------------|--------------|
| Frank        | WenSen       | Sean         |
| 2019. 07. 29 | 2019. 07. 29 | 2019. 07. 29 |

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## 版本描述

| 日期         | 批准 | 版本   | 描述 |
|------------|----|------|----|
|            |    |      |    |
|            |    |      |    |
|            |    |      |    |
|            |    |      |    |
|            |    |      |    |
| 2019-07-29 |    | V1.0 | 初版 |



## 1. Electrical Performance

| A.Electrical Characteristics |                          |
|------------------------------|--------------------------|
| S.W.R                        | <2.0@570-588MHz          |
| Frequency Range(MHz)         | 570-588MHz               |
| Impedance                    | 50 Ohm                   |
| Gain                         | MAX: -2.09dBi@570-588MHz |
|                              |                          |
| B.Material                   |                          |
| 磷铜镀镍                         |                          |
|                              |                          |
|                              |                          |
| C.Environmental              |                          |
| Operation Temperature        | -20℃~65℃                 |
| Storage Temperature          |                          |

## 2. Measurement Setup

### (1) Reflection coefficient Measurement:

(a) **Instrument:** Network Analyzer

#### (b) Setup:

- ( I ) Calibrate the Network Analyzer by one port calibration using Agilent calibration kits.
- ( II ) Connect the antenna under test to the Network Analyzer
- ( III ) Measure the S11 ( reflection coefficient) shown in Fig.1

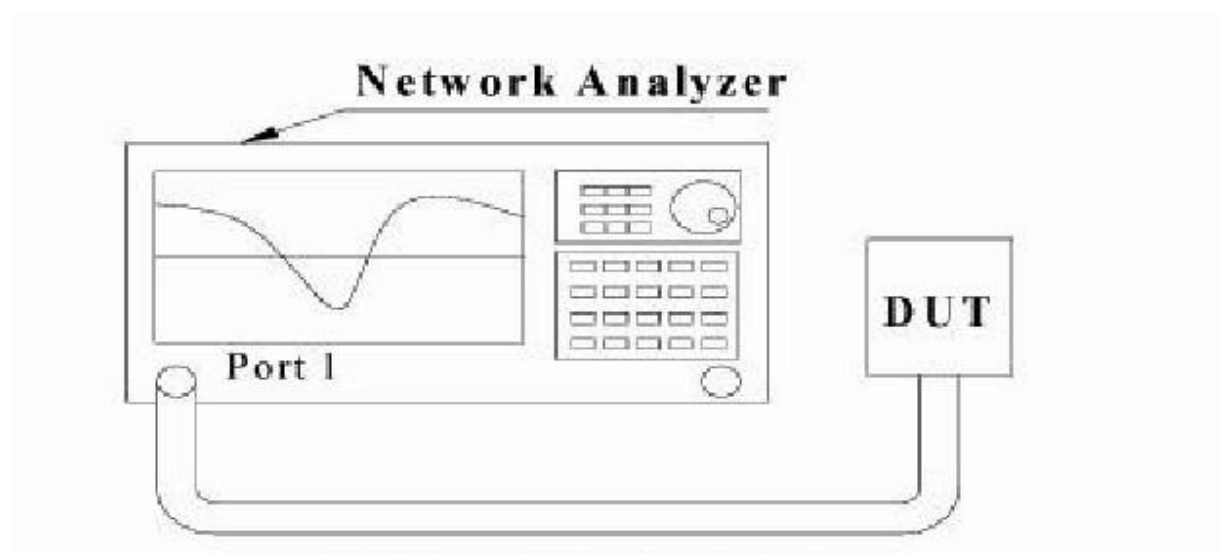


Fig.1 Measure S11 on Network Analyze



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天线增益与效率

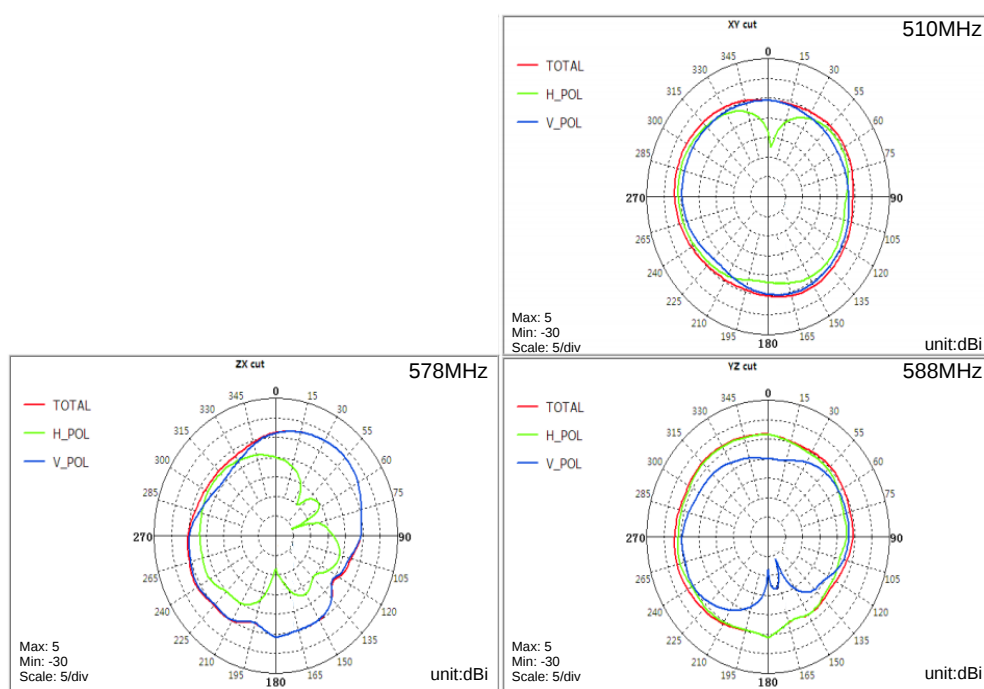
Antenna gain and efficiency

文档编码: FRKF-0007 版本: 1.1

| 天线        |                |           |
|-----------|----------------|-----------|
| Freq(MHz) | Efficiency (%) | Gian(dBi) |
| 570 MHz   | 15.67          | -3.19     |
| 572 MHz   | 14.83          | -3.17     |
| 574 MHz   | 14.14          | -3.24     |
| 576 MHz   | 16.41          | -2.53     |
| 578 MHz   | 18.13          | -2.09     |
| 580 MHz   | 15.75          | -2.71     |
| 582 MHz   | 13.69          | -3.4      |
| 584 MHz   | 11.57          | -4.23     |
| 586 MHz   | 10.37          | -4.89     |
| 588 MHz   | 9.25           | -5.34     |

天线辐射方向图

Antenna Radiation Pattern





### 3. Mechanical Dimension Drawing

