



## Specification

CUSTOMER:

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CUSTOMER P/N:

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DESCRIPTION: Spring Antenna

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P/N: BT-58

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PART NO: ; V1.0

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Frank	WenSen	Sean
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Manufacturer: Fuzhou JieLei Electronic Technology Co., Ltd

Address: C1, Zone C, R&F Center, South of Shangpu Road, Ninghua Street, Taijiang District, Fuzhou City, Fujian Province



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## 1. Electrical Performance

A.Electrical Characteristics	
S.W.R	<2.0@550-570MHz
Frequency Range(MHz)	550-570MHz
Impedance	50 Ohm
Gain	MAX: -2.71dBi@550-570MHz
B.Material	
Phosphorus copper nickel plating	
C.Environmental	
Operation Temperature	-20°C~65°C
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

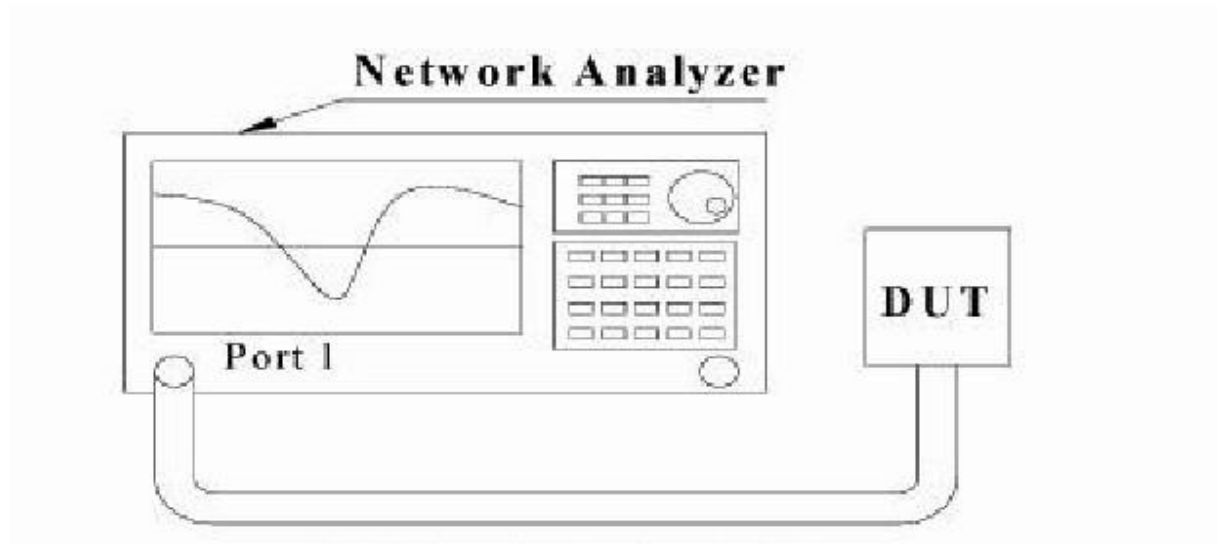


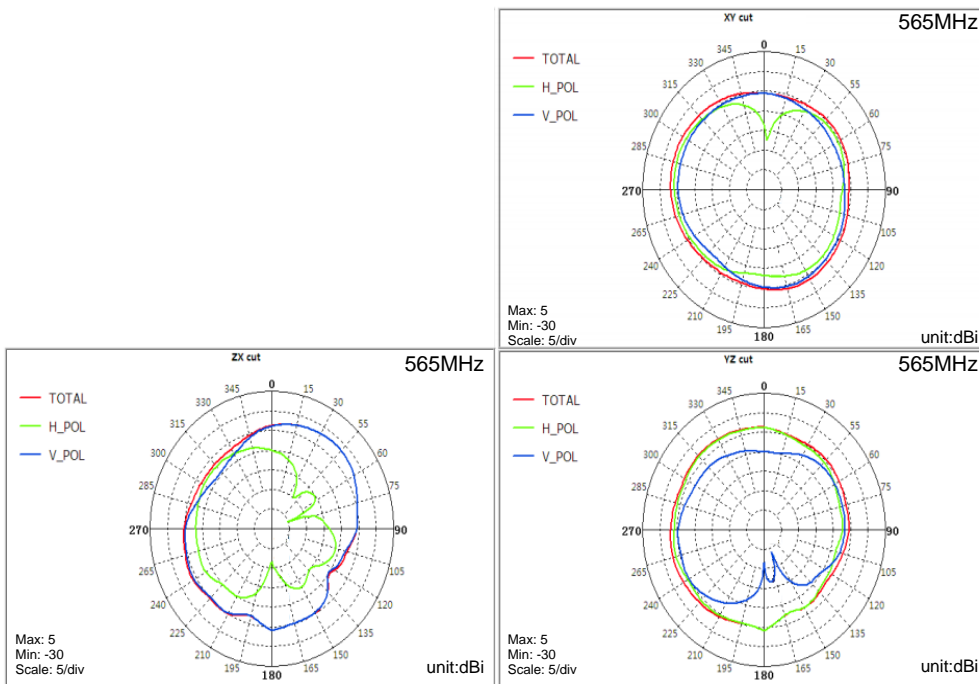
Fig.1 Measure S11 on Network Analyze



天线增益与效率  
Antenna gain and efficiency

天线		
Freq(MHz)	Efficiency (%)	Gian(dBi)
550 MHz	15.67	-3.19
555 MHz	14.83	-3.17
560 MHz	14.14	-3.24
563 MHz	16.41	-2.83
564 MHz	18.13	-2.89
565 MHz	15.75	-2.71
566 MHz	13.69	-3.41
567 MHz	11.57	-4.23
568 MHz	10.37	-4.89
569 MHz	9.25	-5.34
570 MHz	8.74	-5.63

天线辐射方向图  
Antenna Radiation Pattern



### 3. Mechanical Dimension Drawing

