



## Specification

CUSTOMER:

---

CUSTOMER P/N:

---

DESCRIPTION:

Antenna

---

P/N:

U-230

---

PART NO:

; V1.0

---

|              |              |              |
|--------------|--------------|--------------|
|              |              |              |
| Frank        | WenSen       | Sean         |
| 2019. 07. 29 | 2019. 07. 29 | 2019. 07. 29 |

© 2019-2020 Fu Zhou Jie Lei Corporation. All rights reserved.

All content, materials, and programs in this document, including all code, text, graphics, and logos, unless otherwise noted, are the property of Jie Lei Corporation and cannot be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Jie Lei Corporation.

Jie Lei Corporation may have patents or pending patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. The furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property rights except expressly provided in any written license agreement from Jie Lei.

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



Connet

|                                      |   |
|--------------------------------------|---|
| 1. Electrical Performance.....       | 3 |
| 2. Measurement Setup.....            | 4 |
| 2. 1 TEST Equipment.....             | 5 |
| 3. Mechanical Dimension Drawing..... | 6 |



## 1. Electrical Performance

| A.Electrical Characteristics     |                          |
|----------------------------------|--------------------------|
| S.W.R                            | <2.0@550-570MHz          |
| Frequency Range(MHz)             | 650-670MHz               |
| Impedance                        | 50 Ohm                   |
| Gain                             | MAX: -2.71dBi@650-670MHz |
|                                  |                          |
| 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

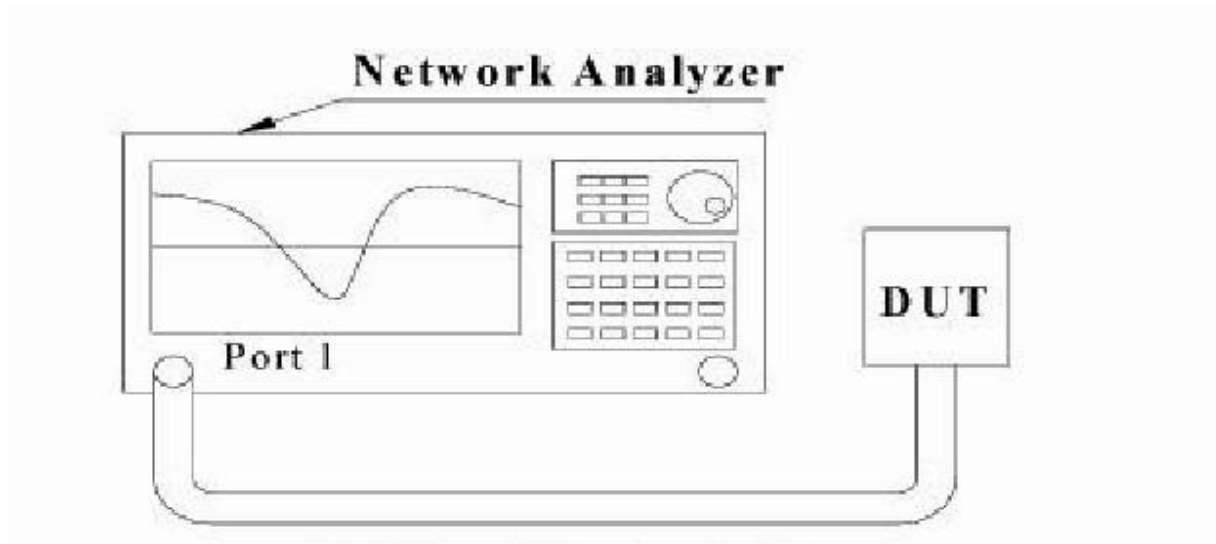


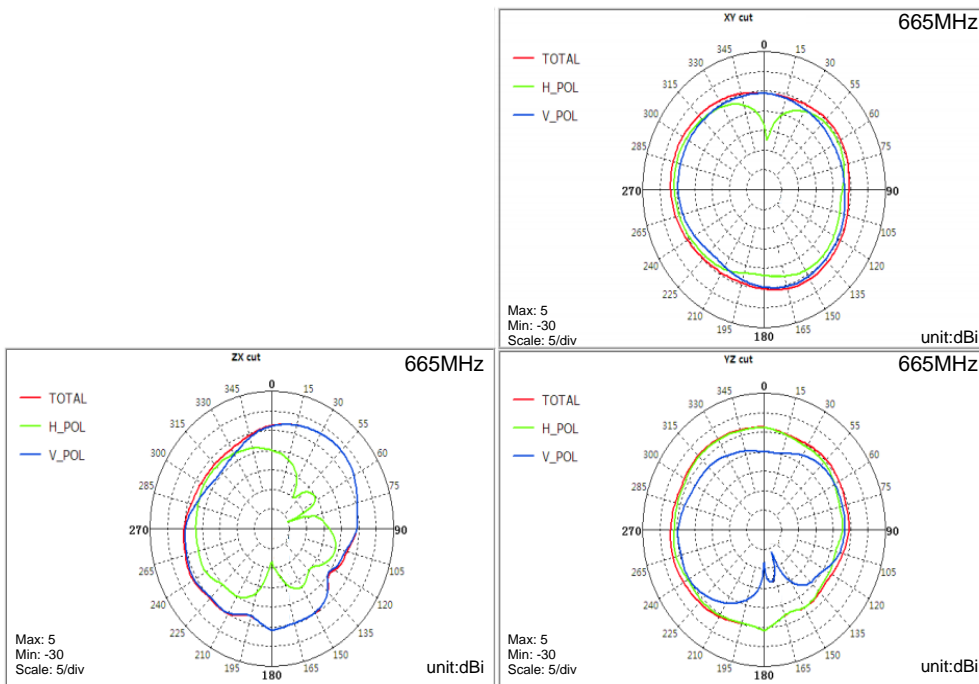
Fig.1 Measure S11 on Network Analyze



天线增益与效率  
Antenna gain and efficiency

| 天线        |                |           |
|-----------|----------------|-----------|
| Freq(MHz) | Efficiency (%) | Gian(dBi) |
| 650 MHz   | 15.67          | -3.19     |
| 655 MHz   | 14.83          | -3.17     |
| 660 MHz   | 14.14          | -3.24     |
| 663 MHz   | 16.41          | -2.83     |
| 664 MHz   | 18.13          | -2.89     |
| 665 MHz   | 15.75          | -2.71     |
| 666 MHz   | 13.69          | -3.41     |
| 667 MHz   | 11.57          | -4.23     |
| 668 MHz   | 10.37          | -4.89     |
| 669 MHz   | 9.25           | -5.34     |
| 670 MHz   | 8.74           | -5.63     |

天线辐射方向图  
Antenna Radiation Pattern



### 3. Mechanical Dimension Drawing

