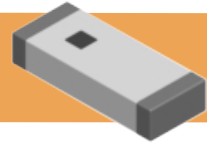


## 叠层片式天线—SLDA 系列

### Multilayer Chip Antenna – SLDA Series



#### 工作温度

Operating Temp

- ◆ -40℃~+85℃

#### 特征

Features

- ◆ 重量轻、结构紧密
- ◆ 带宽宽、低成本
- ◆ 高增益的内置天线
- ◆ Light weight, compact
- ◆ Wide bandwidth, low cost
- ◆ Built-in antenna with high gain

#### 用途

Applications

- ◆ 蓝牙、Wi-Fi
- ◆ 家庭网络无线射频系统等
- ◆ Bluetooth, Wi-Fi
- ◆ Home RF system, etc.

#### 产品型号

Product Identification

| 1    | 2  | 3       | 4   | 5 | 6 |
|------|----|---------|-----|---|---|
| SLDA | 31 | -2R800G | -S1 | T | F |

|          |                                                          |          |                                                          |          |                                                          |
|----------|----------------------------------------------------------|----------|----------------------------------------------------------|----------|----------------------------------------------------------|
| <b>1</b> | <b>分类 Type</b><br>SLDA 叠层片式天线<br>Multilayer Chip Antenna | <b>2</b> | <b>外形尺寸 (L×W) (mm)</b><br>External Dimensions (L×W) (mm) | <b>3</b> | <b>中心频率 Center Frequency</b>                             |
| <b>4</b> | <b>系列代号 Series Code</b><br>S1, 01, etc.                  |          |                                                          |          |                                                          |
| <b>5</b> | <b>包装 Packing</b><br>T 编带 Tape & Reel                    |          |                                                          |          |                                                          |
|          |                                                          |          |                                                          | <b>6</b> | <b>无有害物质产品</b><br>Hazardous Substance Free Products<br>F |

| Example | NoMinal Value |
|---------|---------------|
| 2R800G  | 2800.0MHz     |
| 2R450G  | 2450.0MHz     |

|    |         |
|----|---------|
| 15 | 1.0×0.5 |
| 18 | 1.6×0.8 |
| 31 | 3.2×1.6 |
| 52 | 5.2×2.1 |
| 62 | 6.0×2.0 |
| 72 | 7.0×2.0 |
| 81 | 8.0×1.0 |
| 86 | 8.0×6.0 |
| 92 | 9.0×2.0 |

#### 外观和焊盘

Shape and Land Pattern

| Type                 | Dimensions (mm)              |
|----------------------|------------------------------|
|                      |                              |
| Type: 31-2R450G-S1TF | <b>Land Pattern (mm)</b><br> |

外观尺寸  
Shape and  
Dimensions

| Series | A        | B       | C        | D              | E       | F       | G       | H       | I   | J       |
|--------|----------|---------|----------|----------------|---------|---------|---------|---------|-----|---------|
| SLDA15 | 1.00±0.1 | 0.5±0.1 | 0.4±0.05 | 0.25+0.1/-0.05 | -       | -       | -       | -       | -   | -       |
| SLDA18 | 1.6±0.1  | 0.8±0.1 | 0.45±0.1 | 0.25±0.1       | -       | -       | -       | -       | -   | -       |
| SLDA31 | 3.2±0.2  | 1.6±0.2 | 1.2±0.2  | 0.5±0.2        | 1.6±0.2 | 0.8±0.2 | 0.8±0.2 | 2.2±0.2 | 1.4 | 1.6±0.2 |
| SLDA52 | 5.2±0.2  | 2.1±0.2 | 1.0±0.2  | 0.5±0.2        | 2.3±0.2 | 1.5±0.2 | 1.0±0.2 | 4.0±0.2 | 1.4 | 2.3±0.2 |
| SLDA62 | 6.0±0.2  | 2.0±0.2 | 1.0±0.2  | 0.5±0.2        | 2.2±0.2 | 1.5±0.2 | 1.0±0.2 | 5.0±0.2 | 1.4 | 2.2±0.2 |
| SLDA72 | 7.0±0.2  | 2.0±0.2 | 1.0±0.2  | 0.5±0.2        | 2.2±0.2 | 1.5±0.2 | 1.0±0.2 | 6.0±0.2 | 1.4 | 2.2±0.2 |
| SLDA81 | 8.0±0.2  | 1.0±0.2 | 1.0±0.2  | 0.5±0.2        | 1.5±0.2 | 1.5±0.2 | 1.0±0.2 | 7.0±0.2 | 1.4 | 1.5±0.2 |
| SLDA86 | 8.0±0.2  | 6.0±0.2 | 1.20±0.2 | 2.0±0.2        | -       | -       | -       | -       | -   | -       |
| SLDA92 | 9.0±0.2  | 2.0±0.2 | 1.0±0.2  | 0.5±0.2        | 2.2±0.2 | 1.5±0.2 | 1.0±0.2 | 8.0±0.2 | 1.4 | 2.2±0.2 |

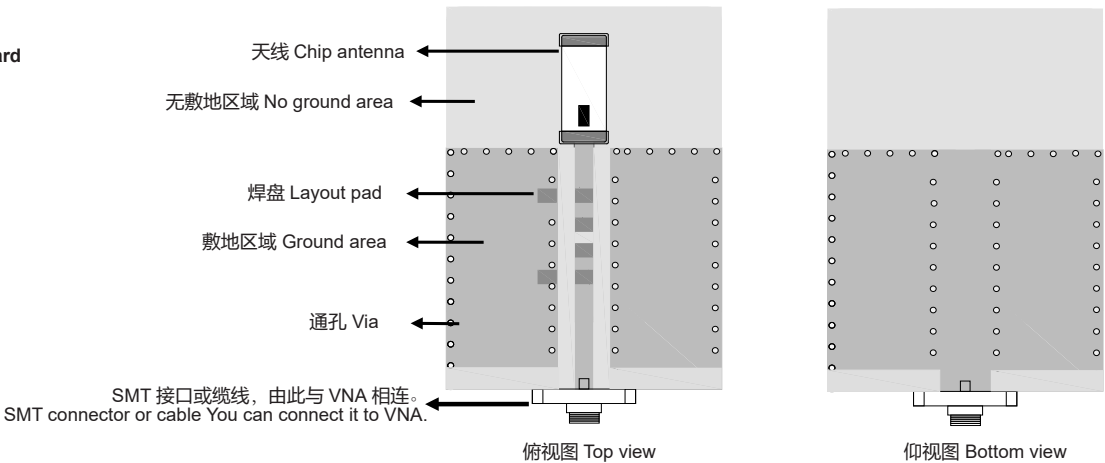
引脚定义  
Terinal-  
Configuration



| 编号<br>No. | 端头名称<br>TerMinal Name | 编号<br>No. | 端头名称<br>TerMinal Name |
|-----------|-----------------------|-----------|-----------------------|
| (1)       | Feeding Point         | (2)       | NC                    |

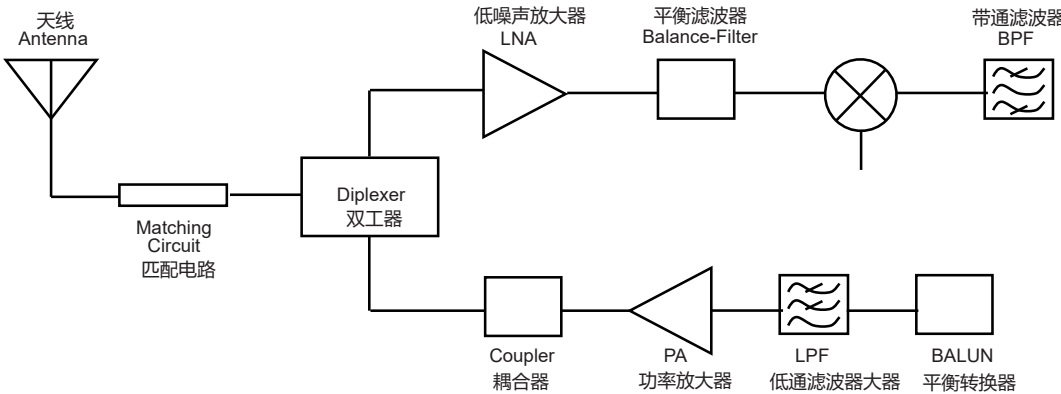
测试板

Evaluation Board



应用指南

Application Guide



## 规格特性 Specifications

### SLDA15 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | Ω                 | W                      |
| SLDA15-2R450G-36TF | 2400~2500        | 0.70dBi Typ.    | -                    | <4            | 50                | 2                      |

### SLDA18 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | Ω                 | W                      |
| SLDA18-5R500G-36TF | 2400~2484        | -               | -                    | 4.0 Max.      | 50                | 2                      |
|                    | 5150~5850        |                 |                      | 5.0 Max.      |                   |                        |
| SLDA18-5R500G-35TF | 2400~2480        | 0.7 dBi Typ     | -                    | 4.0 Max.      | 50                | 2                      |
|                    | 5150~5850        | 3.5 dBi Typ     |                      | 2.1Max.       |                   |                        |
| SLDA18-2R450G-31TF | 2400~2480        | 1.1dBi          | -                    | <2            | 50                | 2                      |
| SLDA18-5R900G-36TF | 5850~5925        | 2.2 dBi         | -                    | <2            | 50                | 2                      |

### SLDA31 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain             | 平均增益<br>Average Gain     | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------------------|--------------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ                        | V-XZ                     | In BW         | Ω                 | W                      |
| SLDA31-2R800G-S1TF | ≥100             | 0.5dBi Typ.                 | -1dBi Typ.               | <2            | 50                | 3                      |
| SLDA31-2R450G-S1TF | ≥100             | 0.5dBi Typ.                 | -1dBi Typ.               | <2            | 50                | 3                      |
| SLDA31-2R400G-S1TF | ≥100             | 2.5dBi<br>@ ( XZ-<br>total) | -1.5dBi<br>@ ( XZ-total) | <2            | 50                | 3                      |
| SLDA31-2R450G-S2TF | ≥100             | 2.5dBi<br>@ ( XZ-<br>total) | 0.5dBi<br>@ ( XZ-total)  | <2            | 50                | 3                      |
| SLDA31-2R450G-36TF | 2400~2500        | 1.65 dBi                    | -                        | <2            | 50                | 3                      |
| SLDA31-6R050G-31TF | 2400~2500        | 2.5dBi                      | -                        | <2            | 50                | 3                      |
|                    | 4900~5850        | 1.4dBi                      | -                        |               |                   |                        |
|                    | 5850~7200        | 1.0dBi                      | -                        |               |                   |                        |
| SLDA31-7R000G-31TF | 5500~8500        | 3.5dBi                      | -                        | <2            | 50                | 3                      |
| SLDA31-1R600G-36TF | 1565~1585        | 4.18 dBi                    | -                        | <2            | 50                | 3                      |
| SLDA31-2R200G-36TF | 1565~1585        | -0.5 dBi                    | -                        | <2.3          | 50                | 3                      |
|                    | 2400~2500        | 0.5 dBi                     |                          |               |                   |                        |

### SLDA52 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | Ω                 | W                      |
| SLDA52-2R510G-S1TF | ≥200             | 2.5dBi Typ.     | 0.5dBi Typ.          | <2            | 50                | 3                      |
| SLDA52-2R540G-S1TF | ≥200             | 2.5dBi Typ.     | 0.5dBi Typ.          | <2            | 50                |                        |
| SLDA52-2R450G-31TF | 2400~2500        | 1.5 dBi         | -                    | <2.6          | 50                | 3                      |
| SLDA52-2R450G-37TF | 2400~2480        | -2.2 dBi        | -                    | <5            | 50                | 2                      |
| SLDA52-3R950G-31TF | 3700~4200        | -               | -                    | <2            | 50                | 3                      |

### SLDA62 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | Ω                 | W                      |
| SLDA62-2R640G-01TF | ≥200             | 2.6dBi Typ.     | 0.7dBi Typ.          | <2            | 50                | 3                      |

### SLDA72 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | Ω                 | W                      |
| SLDA72-0R900G-31TF | 858~928          | -2.0dBi         | -                    | <4            | 50                | 3                      |
| SLDA72-2R470G-S1TF | ≥200             | 2.7dBi Typ.     | 1.0dBi Typ.          | <2            | 50                | 3                      |
| SLDA72-2R450G-31TF | 2400~2500        | 2.5dBi          | -                    | <2.1          | 50                | 3                      |

## 规格特性 Specifications

### SLDA81 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | $\Omega$          | W                      |
| SLDA81-3R010G-S1TF | $\geq 200$       | 2.0dBi Typ.     | 0.5dBi Typ.          | <2            | 50                | 3                      |

### SLDA86 TYPE

| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | $\Omega$          | W                      |
| SLDA86-5R250G-31TF | 3300~7200        | -               | -                    | <4            | 50                | 3                      |

### SLDA92 TYPE

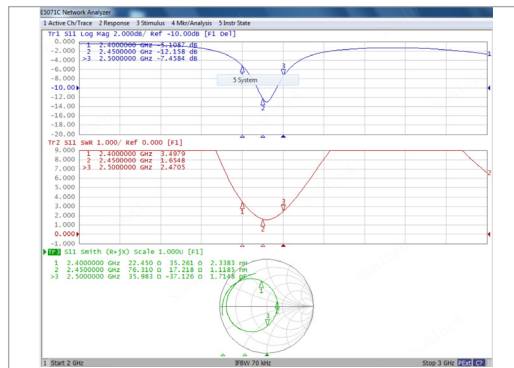
| 型号<br>Part Number  | 带宽<br>Band Width | 增益<br>Peak Gain | 平均增益<br>Average Gain | 电压驻波比<br>VSWR | 特征阻抗<br>Impedance | 能量容量<br>Power Capacity |
|--------------------|------------------|-----------------|----------------------|---------------|-------------------|------------------------|
|                    | MHz              | V-XZ            | V-XZ                 | In BW         | $\Omega$          | W                      |
| SLDA92-2R660G-S1TF | $\geq 200$       | 3.0dBi Typ.     | 1.0dBi Typ.          | <2            | 50                | 3                      |

※ 频率会随着 PCB 的布局而改变。请联系我们获取合适的设计。

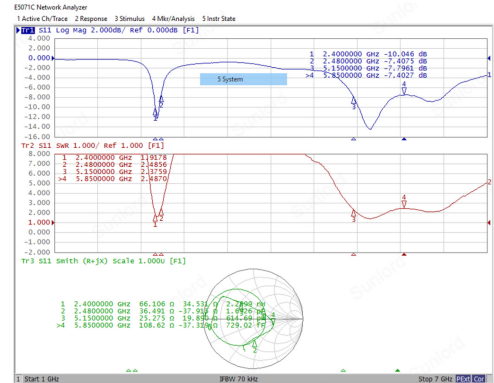
※ Frequency will be changed with layout of PCB. Please contact us for appropriate design.

## 阻抗匹配 Impedance Matching

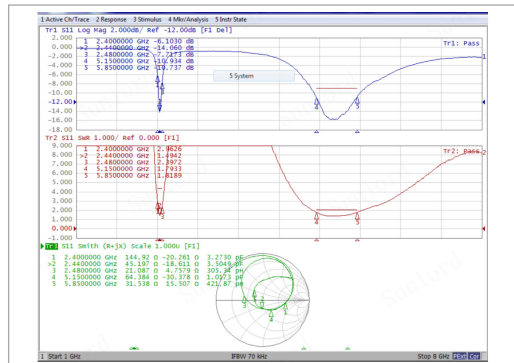
### SLDA15-2R450G-36TF



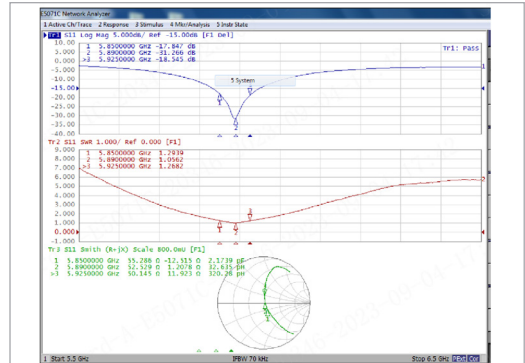
### SLDA18-5R500G-36TF



### SLDA18-5R500G-35TF

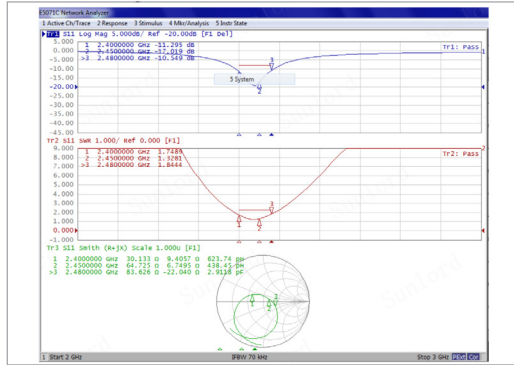


### SLDA18-5R900G-36TF

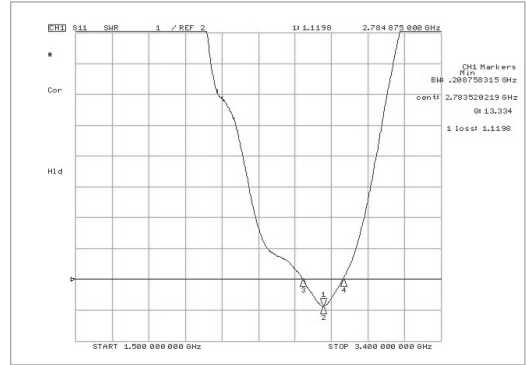


## 阻抗匹配 Impedance Matching

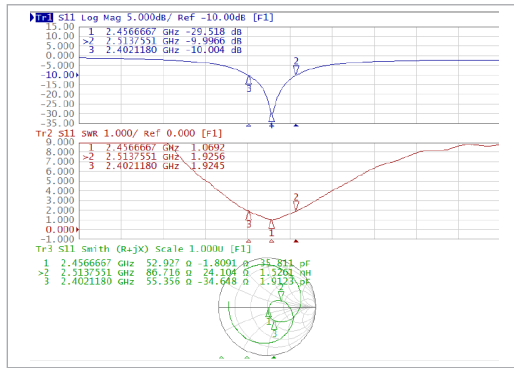
SLDA18-2R450G-31TF



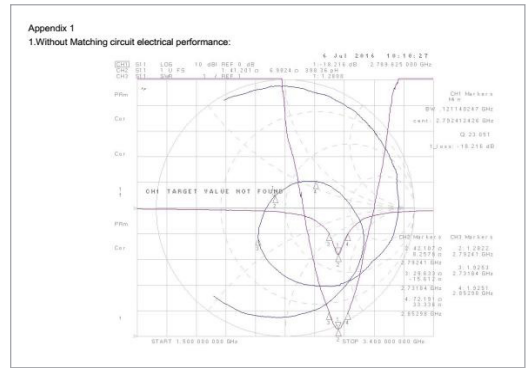
SLDA31-2R800G-S1TF



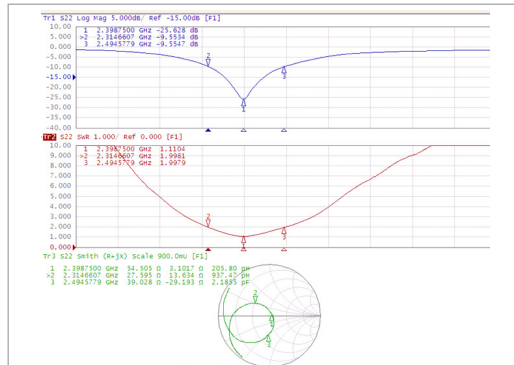
SLDA31-2R400G-S1TF



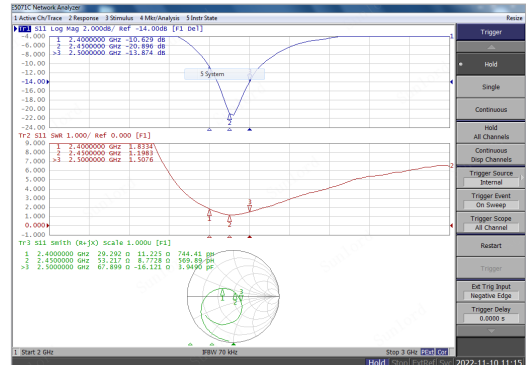
SLDA31-2R450G-S1TF



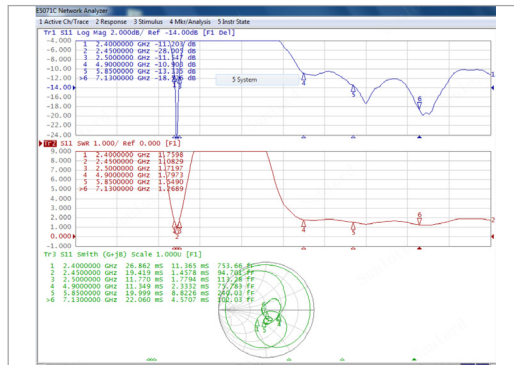
SLDA31-2R450G-S2TF



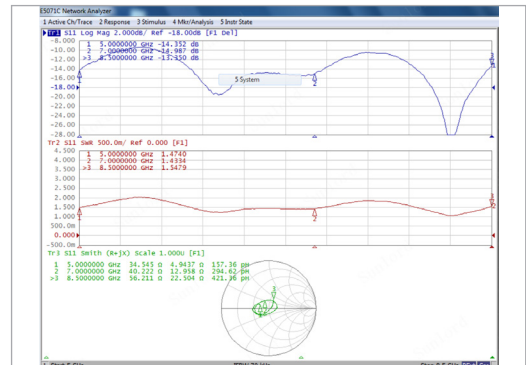
SLDA31-2R450G-36TF



SLDA31-6R050G-31TF

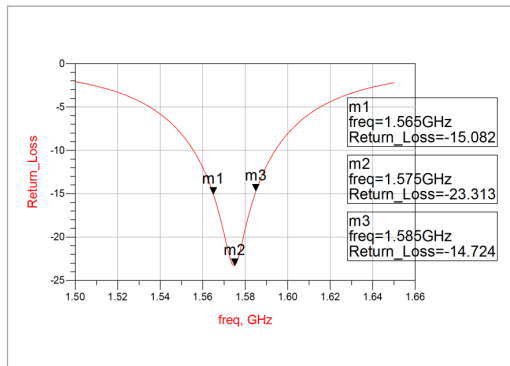


SLDA31-7R000G-31TF

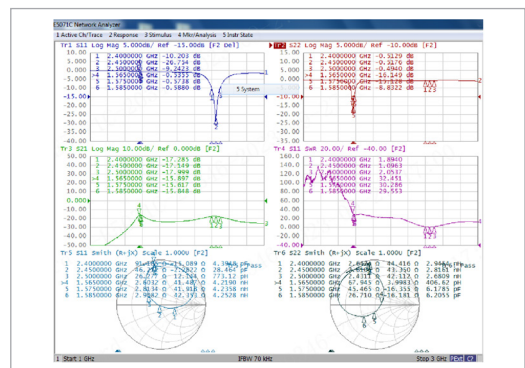


## 阻抗匹配 Impedance Matching

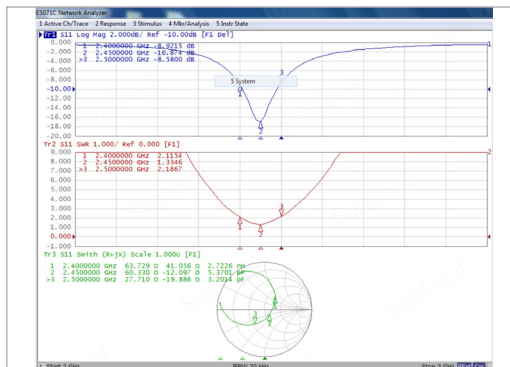
SLDA31-1R600G-36TF



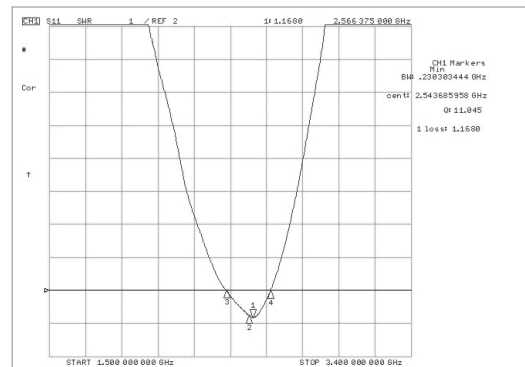
SLDA31-2R200G-36TF



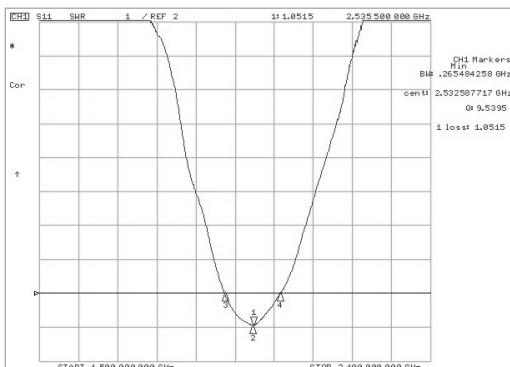
SLDA52-2R450G-31TF



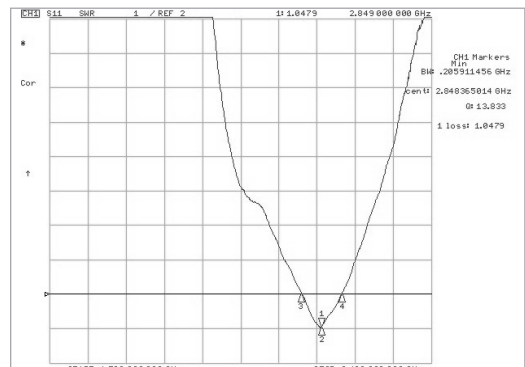
SLDA52-2R510G-S1TF



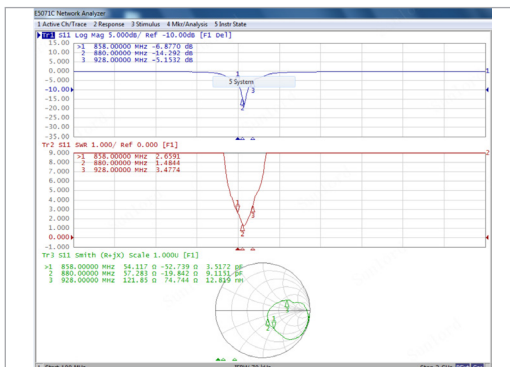
SLDA52-2R540G-S1TF



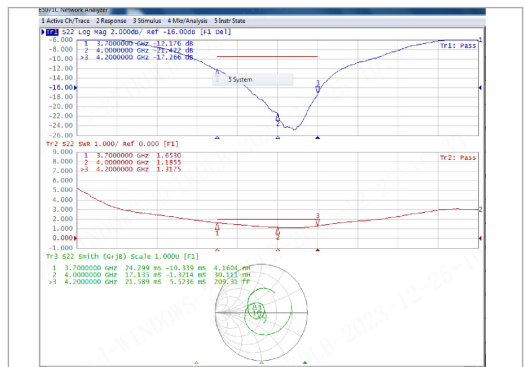
SLDA62-2R640G-01TF



SLDA52-2R450G-37TF

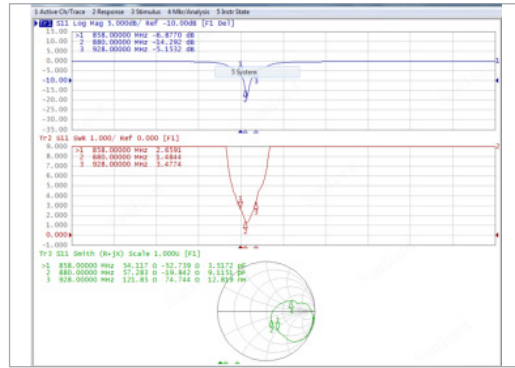


SLDA52-3R950G-31TF

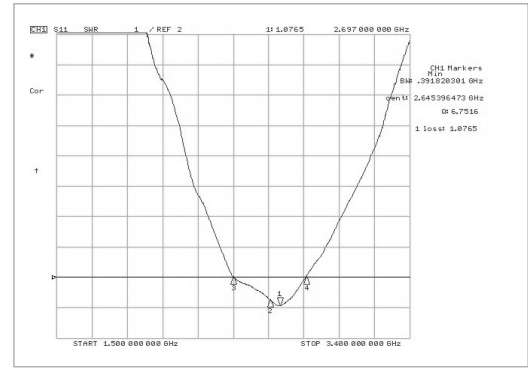


## 阻抗匹配 Impedance Matching

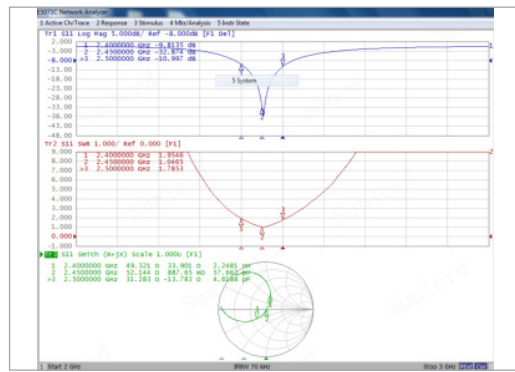
SLDA72-0R900G-31TF



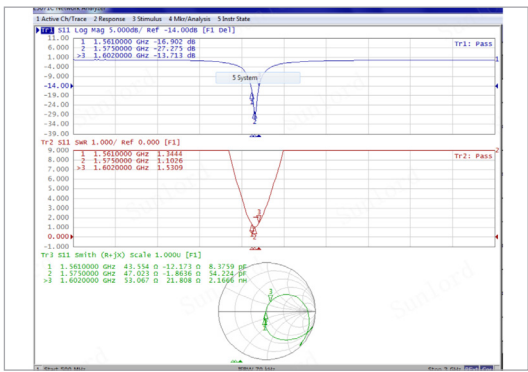
SLDA72-2R470G-S1TF



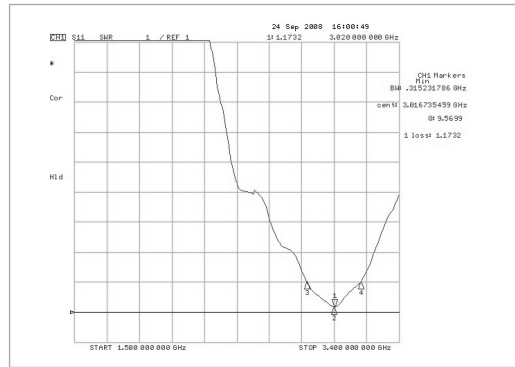
SLDA72-2R450G-31TF



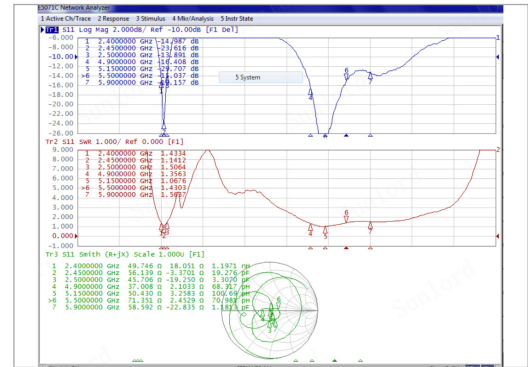
SLDA72-1R600G-31TF



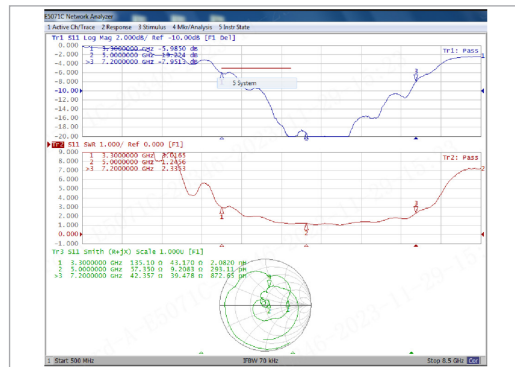
SLDA81-3R010G-S1TF



SLDA81-5R400G-35TF



SLDA86-5R250G-31TF



SLDA92-2R660G-S1TF

