

# Multilayer Chip Antenna – SLDA Series



Operating temp. : -40°C ~+85°C

- FEATURES**
- ◆ Light weight, compact
  - ◆ Wide bandwidth, low cost
  - ◆ Built-in antenna with high gain

- APPLICATIONS**
- ◆ Bluetooth, Wi-Fi
  - ◆ Home RF system, etc.

**PRODUCT IDENTIFICATION**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>SLDA</b>	<b>31</b>	<b>-2R800G</b>	<b>-S1</b>	<b>T</b>	<b>F</b>

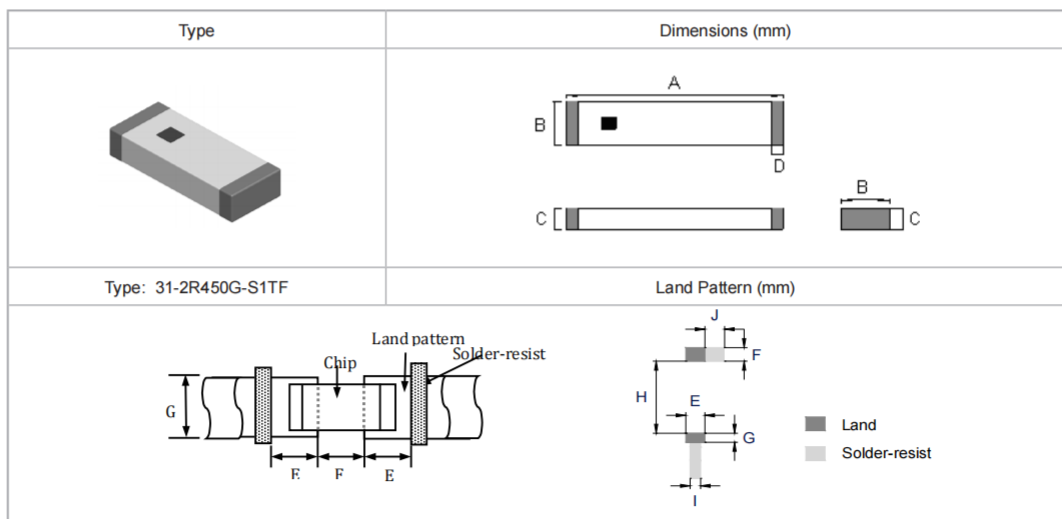
  

<b>1</b>	<b>2</b>	<b>3</b>
Type	External Dimensions (L×W) (mm)	Center Frequency
SLDA	Multilayer Chip Antenna	Example
		Nominal Value
		2R800G
		2800.0MHz
		2R450G
		2450.0MHz

<b>4</b>	<b>5</b>	<b>6</b>
Series Code	Packing	Hazardous Substance Free Products
S1, 01, etc.	T	F
	Tape & Reel	

**SHAPE AND LAND PATTERN**



**SHAPE AND DIMENSIONS**

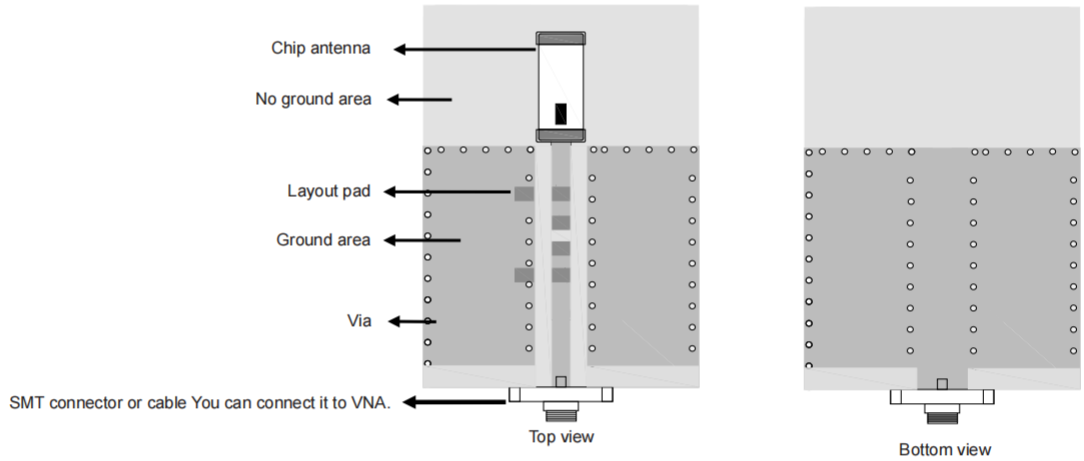
Series	A	B	C	D	E	F	G	H	I	J
SLDA15	1.00±0.1	0.5±0.1	0.4±0.05	0.25+0.1/-0.05	-	-	-	-	-	-
SLDA18	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	-	-	-	-	-	-
SLDA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.2±0.2	1.4	1.6±0.2
SLDA52	5.2±0.2	2.1±0.2	1.0±0.2	0.5±0.2	2.3±0.2	1.5±0.2	1.0±0.2	4.0±0.2	1.4	2.3±0.2
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
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
SLDA106	10.0±0.3	6.0±0.3	1.0±0.2	0.5±0.3	-	-	-	-	-	-
SLDA154	15.0±0.2	4.0±0.2	1.5±0.2	1.0±0.3	-	-	-	-	-	-

**TERINAL-CONFIGURATION**

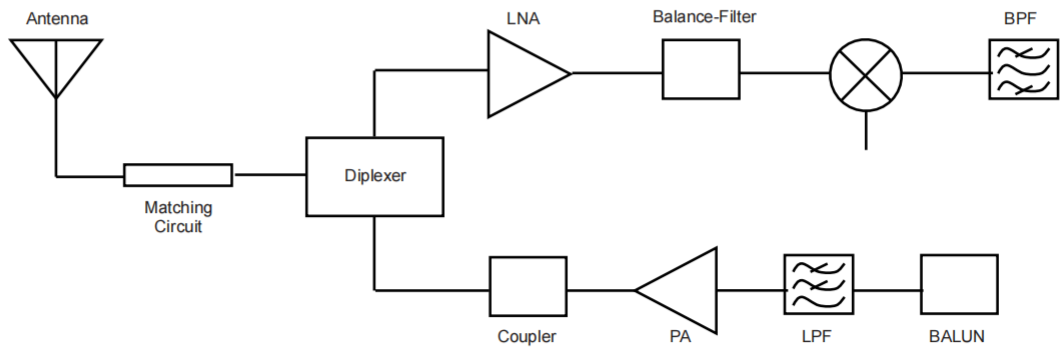


No.	Terminal Name	No.	Terminal Name
(1)	Feeding Point	(2)	NC

**EVALUATION BOARD**



**APPLICATION GUIDE**



Multilayer Chip LC Filter  
Multilayer Chip Balun  
Multilayer Chip Diplexer  
Multilayer Chip Triplexer  
Multilayer Chip LC Coupler  
Multilayer Chip Antenna  
Wire Wound Chip Balun Transformer  
Ceramic Dielectric Filter

**SPECIFICATIONS** SLDA15 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA15-2R450G-36TF	2400~2500	0.85dBi Typ.	-1.5dBi Typ.	<2	50	2

## SLDA18 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA18-5R500G-36TF	2400~2484	-	-	6.5 max. @2400-2484 MHz	50	3
	5150~5850			4.0 max. @5150-5850 MHz		
SLDA18-2R450G-31TF	2400~2480	0.9dBi	-2.0dBi	-	50	3

## SLDA31 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA31-2R800G-S1TF	$\geq 100$	0.5dBi Typ.	-1dBi Typ.	<2	50	3
SLDA31-2R450G-S1TF	$\geq 100$	0.5dBi Typ.	-1dBi Typ.	<2	50	3
SLDA31-2R400G-S1TF	$\geq 100$	2.5dBi @( XZ-total)	-1.5dBi @( XZ-total)	<2	50	3
SLDA31-2R450G-S2TF	$\geq 100$	2.5dBi @( XZ-total)	0.5dBi @( XZ-total)	<2	50	3
SLDA31-2R450G-36TF	2400~2500	1.7dBi	-1.0dBi	<2	50	3
SLDA31-6R050G-31TF	2400~2500	2.5dBi	-2.9dBi	<2	50	3
	4900~5850	1.5dBi	-2.1dBi			
	5850~7200	2.2dBi	-1.7dBi			
SLDA31-7R000G-31TF	5500~8500	3.5dBi	-1.3dBi	<2	50	3

## SLDA52 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA52-2R510G-S1TF	$\geq 200$	2.5dBi Typ.	0.5dBi Typ.	<2	50	3
SLDA52-2R540G-S1TF	$\geq 200$	2.5dBi Typ.	0.5dBi Typ.	<2	50	
SLDA52-2R450G-31TF	2400~2500	0dBi	-1.5dBi	<2	50	3

## SLDA62 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA62-2R640G-01TF	$\geq 200$	2.6dBi Typ.	0.7dBi Typ.	<2	50	3

## SLDA72 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA72-0R900G-31TF	858~928	-1.1dBi	-2.5dBi	<2	50	3
SLDA72-2R470G-S1TF	$\geq 200$	2.7dBi Typ.	1.0dBi Typ.	<2	50	3
SLDA72-2R450G-31TF	2400~2500	1.5dBi	-0.5dBi	<2	50	3

**SPECIFICATIONS SLDA81 TYPE**

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	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

**SLDA92 TYPE**

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	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

**SLDA106 TYPE**

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA106-7R000G-31TF	3100~10300	2.2dBi	-3.5dBi.	<2	50	3

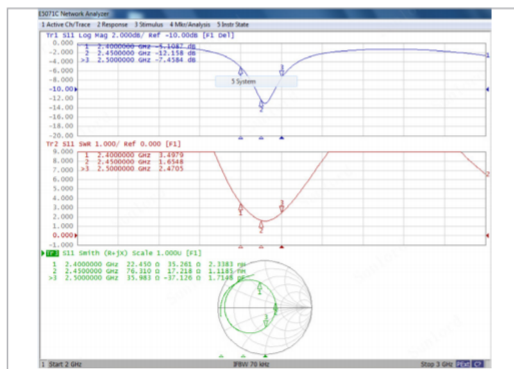
**SLDA154 TYPE**

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	$\Omega$	W
SLDA154-2R200G-31TF	700~800 MHz 1700~2100 MHz	2.0dBi.	-1.6dBi	<2	50	3
	824~960 MHz 1710~2690 MHz	2.0dBi	-1.0dBi			

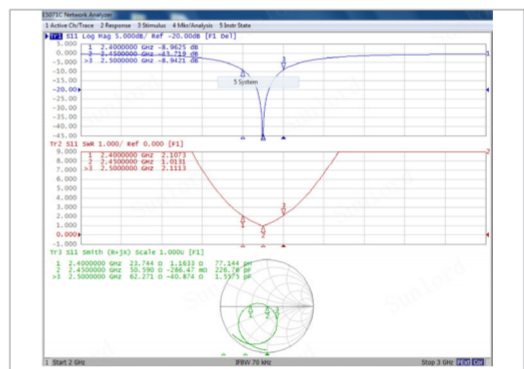
※Frequency will be changed with layout of PCB. Please contact us for appropriate design.

**IMPEDANCE MATCHING**

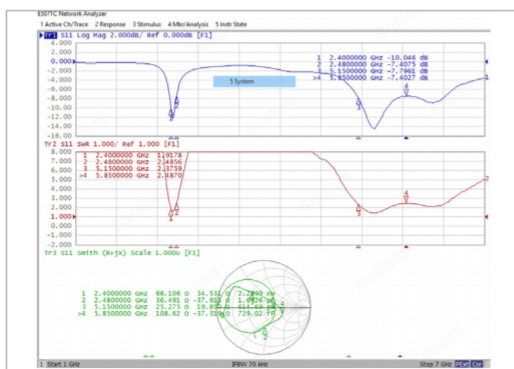
**SLDA15-2R450G-36TF**



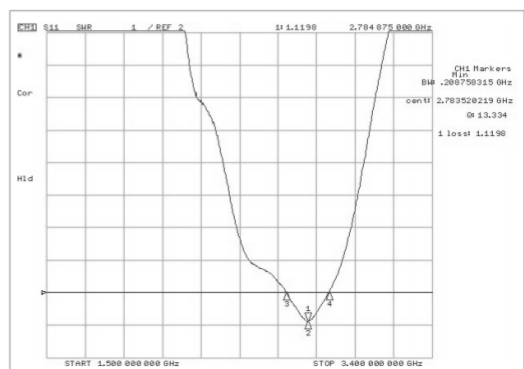
**SLDA18-5R500G-36TF**



**SLDA18-2R450G-31TF**

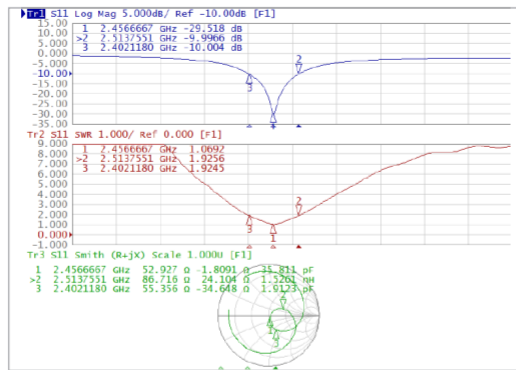


**SLDA31-2R800G-S1TF**

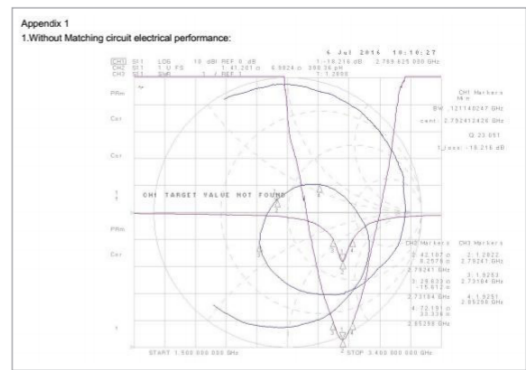


**IMPEDANCE MATCHING**

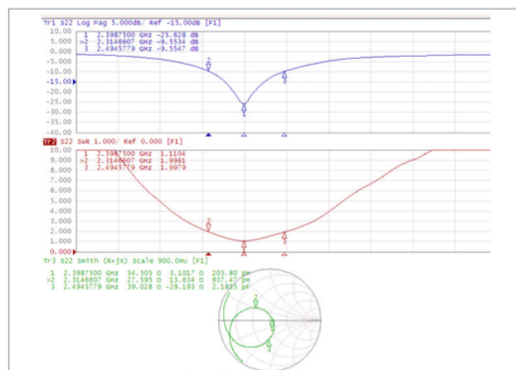
**SLDA31-2R400G-S1TF**



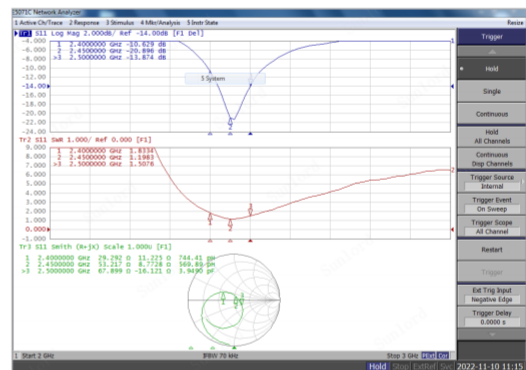
**SLDA31-2R450G-S1TF**



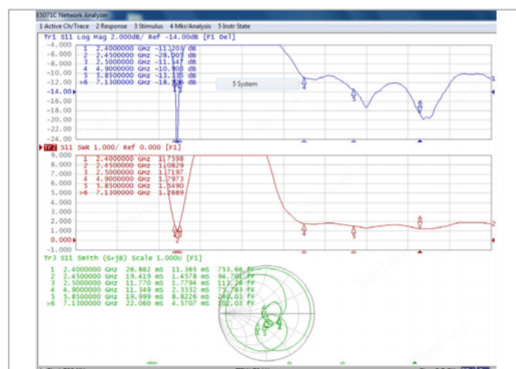
**SLDA31-2R450G-S2TF**



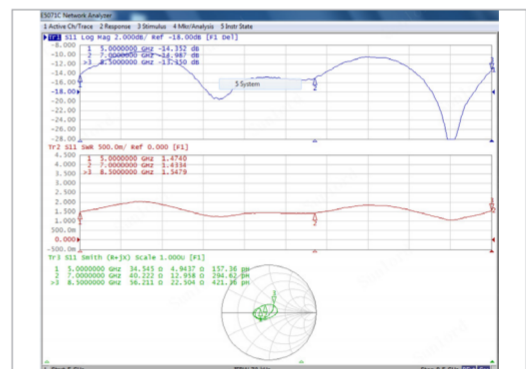
**SLDA31-2R450G-36TF**



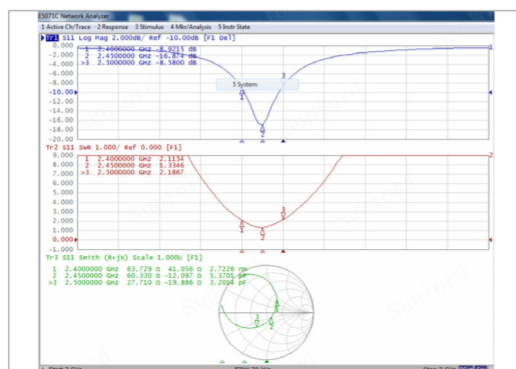
**SLDA31-6R050G-31TF**



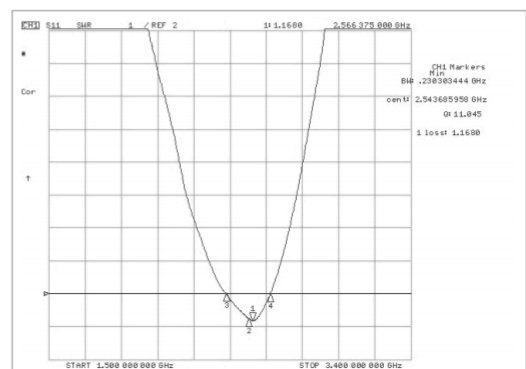
**SLDA31-7R000G-31TF**



**SLDA52-2R450G-31TF**

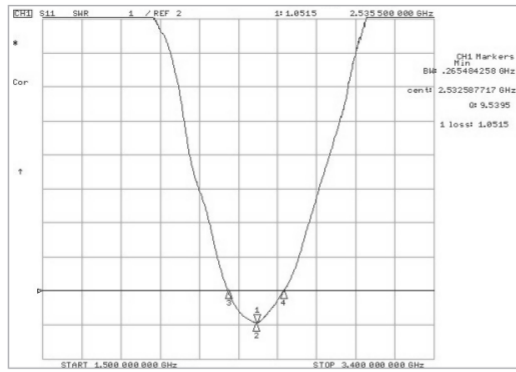


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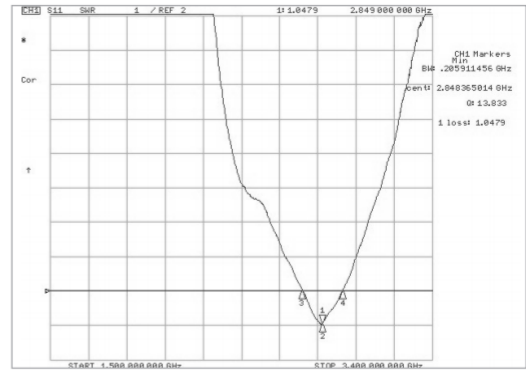


**IMPEDANCE MATCHING**

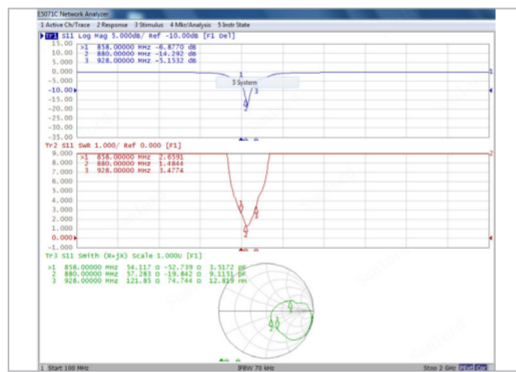
**SLDA52-2R540G-S1TF**



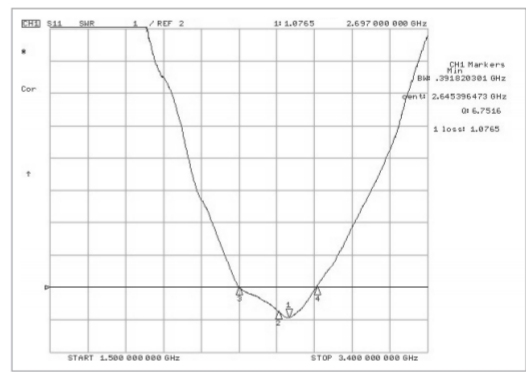
**SLDA62-2R640G-01TF**



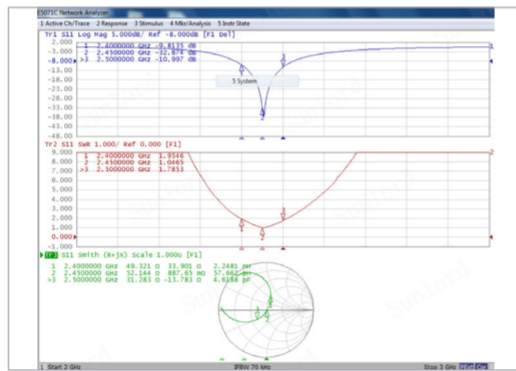
**SLDA72-0R900G-31TF**



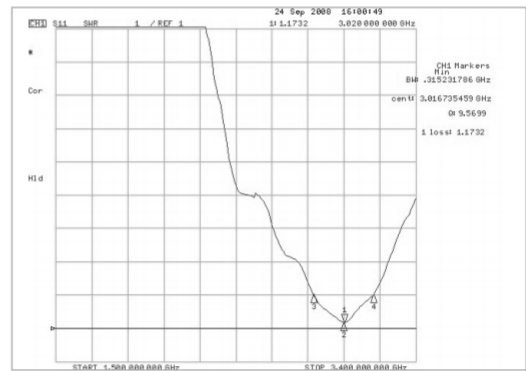
**SLDA72-2R470G-S1TF**



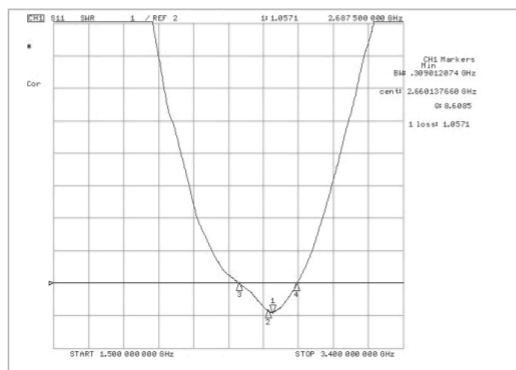
**SLDA72-2R450G-31TF**



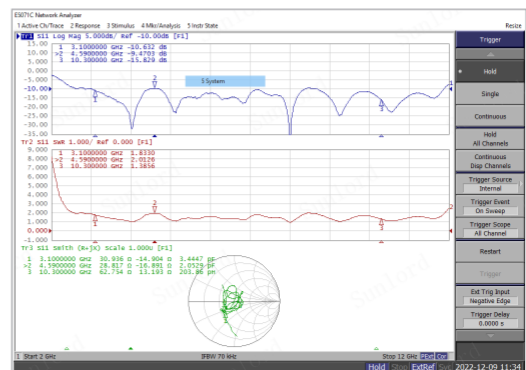
**SLDA81-3R010G-S1TF**



**SLDA92-2R660G-S1TF**

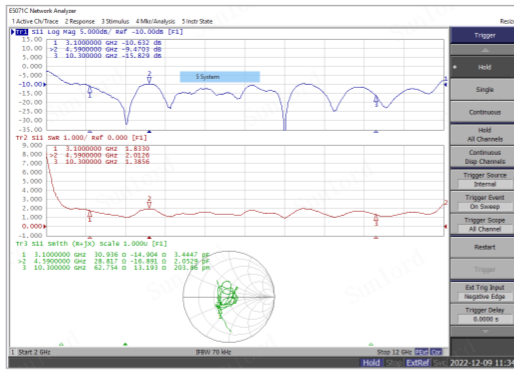


**SLDA106-7R000G-31TF**



### IMPEDANCE MATCHING

SLDA154-2R200G-31TF



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