

# 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


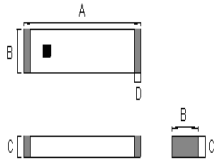
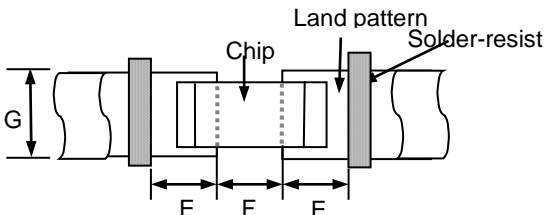
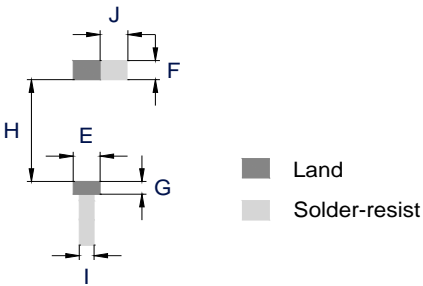
## APPLICATIONS

- Bluetooth, Wireless LAN, Mobile TV
- Home RF system, etc.

## PRODUCT IDENTIFICATION

<u>SLDA</u> ①	<u>31</u> ②	<u>-2R800G</u> ③	<u>-S1</u> ④	<u>I</u> ⑤	<u>F</u> ⑥																																						
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<table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SLDA</td><td>Multilayer Chip Antenna</td></tr> </table>	Type		SLDA	Multilayer Chip Antenna	<table border="1"> <tr><th colspan="2">External Dimensions (LxW) (mm)</th></tr> <tr><td>31</td><td>3.2x1.6</td></tr> <tr><td>52</td><td>5.2x2.1</td></tr> <tr><td>62</td><td>6.0x2.0</td></tr> <tr><td>72</td><td>7.0x2.0</td></tr> <tr><td>81</td><td>8.0x1.0</td></tr> <tr><td>92</td><td>9.0x2.0</td></tr> </table>	External Dimensions (LxW) (mm)		31	3.2x1.6	52	5.2x2.1	62	6.0x2.0	72	7.0x2.0	81	8.0x1.0	92	9.0x2.0	<table border="1"> <tr><th colspan="2">Center Frequency</th></tr> <tr><th>Example</th><th>Nominal Value</th></tr> <tr><td>2R800G</td><td>2800.0MHz</td></tr> <tr><td>2R450G</td><td>2450.0MHz</td></tr> </table>	Center Frequency		Example	Nominal Value	2R800G	2800.0MHz	2R450G	2450.0MHz	<table border="1"> <tr><th colspan="2">Series Code</th></tr> <tr><td>S1, 01, etc.</td><td></td></tr> </table>	Series Code		S1, 01, etc.		<table border="1"> <tr><th colspan="2">Packing</th></tr> <tr><td>T</td><td>Tape &amp; Reel</td></tr> </table>	Packing		T	Tape & Reel	<table border="1"> <tr><th colspan="2">Hazardous Substance Free Products</th></tr> <tr><td>F</td><td></td></tr> </table>	Hazardous Substance Free Products		F	
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## SHAPE AND LAND PATTERN

Type:	Dimensions (mm)
	
Type: SLDA21-2R450G-S1TF	Land Pattern (mm)
	

## SHAPE AND DIMENSIONS

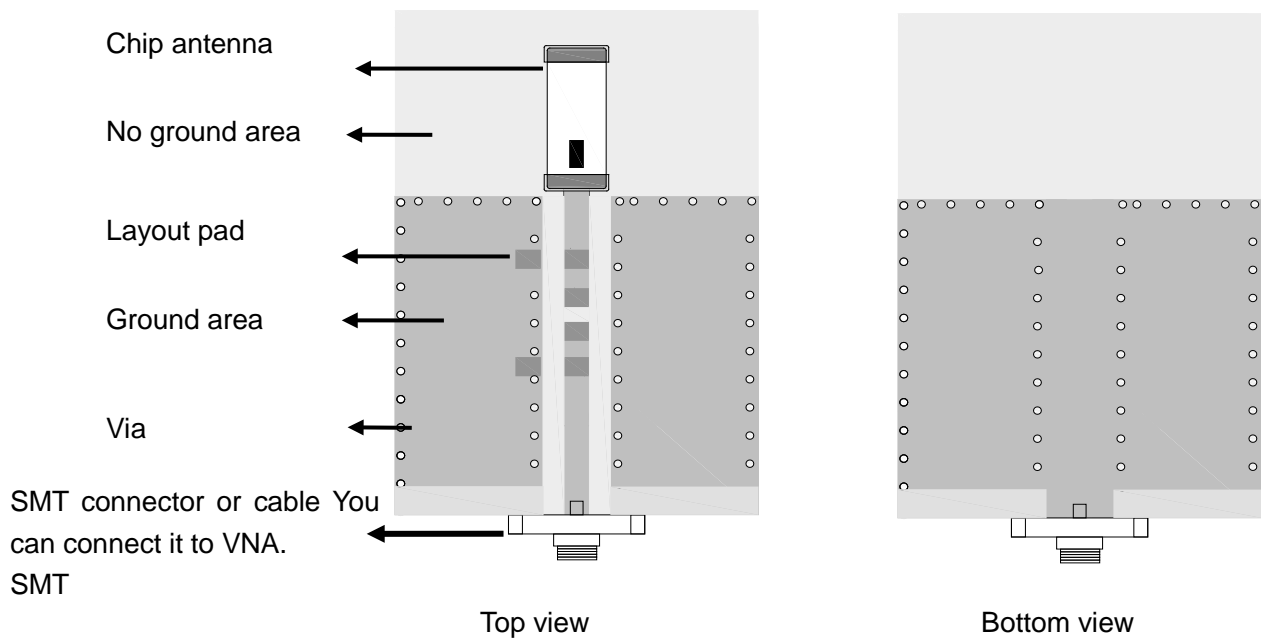
Series	A	B	C	D	E	F	G	H	I	J
SLDA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.2±0.2	1.4	1.6±0.2
SLDA52	5.2±0.2	2.1±0.2	1.0±0.2	0.5±0.2	2.3±0.2	1.5±0.2	1.0±0.2	4.0±0.2	1.4	2.3±0.2
SLDA62	6.0±0.2	2.0±0.2	1.0±0.2	0.5±0.2	2.2±0.2	1.5±0.2	1.0±0.2	5.0±0.2	1.4	2.2±0.2
SLDA72	7.0±0.2	2.0±0.2	1.0±0.2	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

## TERINAL-CONFIGURATION

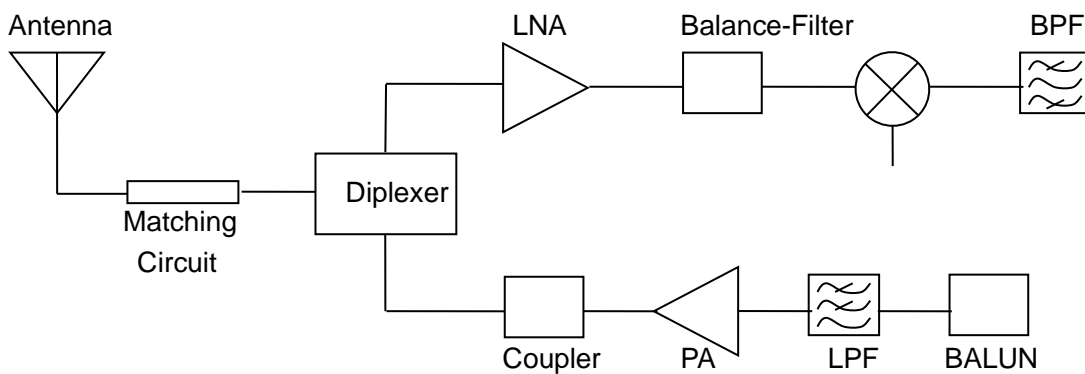


No.	Terminal Name	No.	Terminal Name
(1)	Feeding Point	(2)	NC

## EVALUATION BOARD



## APPLICATION GUIDE



## SPECIFICATIONS

### 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
SLDA31-2R400G-S1TF	$\geq 100$	2.5dB @ ( XZ-total)	-1.5dB @ ( XZ-total)	<2	50	2
SLDA31-2R450G-S2TF	$\geq 100$	2.5dBi @ ( XZ-total)	0.5dBi @ ( XZ-total)	<2	50	2

### 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	
SLDA52-2R540G-S1TF	$\geq 200$	2.5dBi Typ.	0.5dBi Typ.	<2	50	

### 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
SLDA72-2R470G-S1TF	$\geq 200$	2.7dBi Typ.	1.0dBi Typ.	<2	50	3

### 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

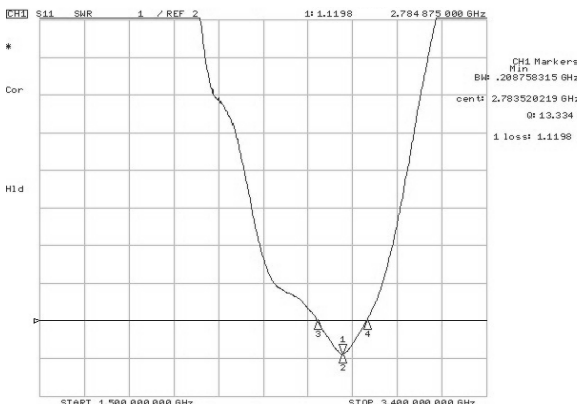
### SLDA92 TYPE

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

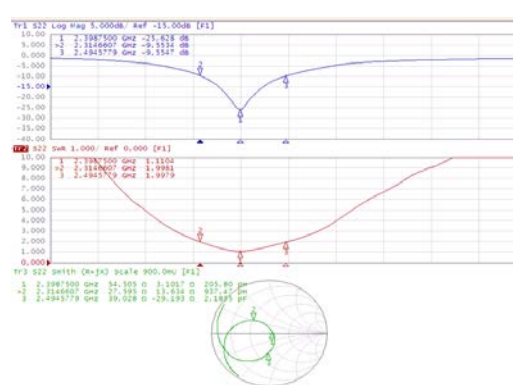
※Frequency will be changed with layout of PCB. Please contact us for appropriate design.

## RETURN LOSS

### SLDA31-2R800G-S1TF

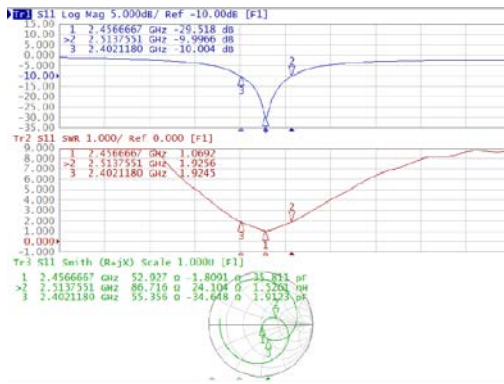


### SLDA31-2R400G-S1TF

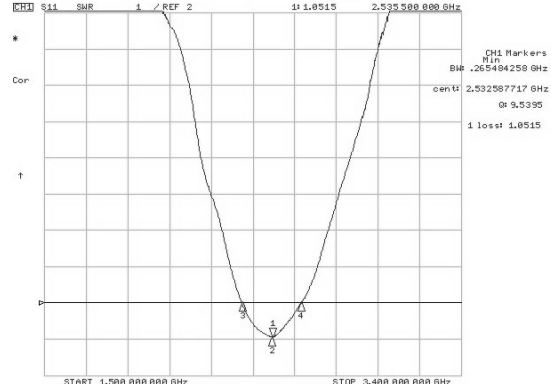


# RETURN LOSS

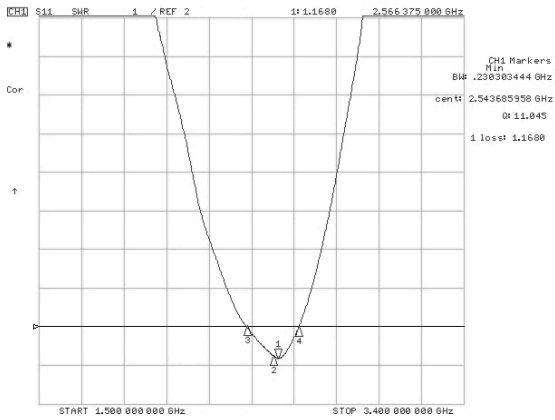
## SLDA31-2R450G-S2TF



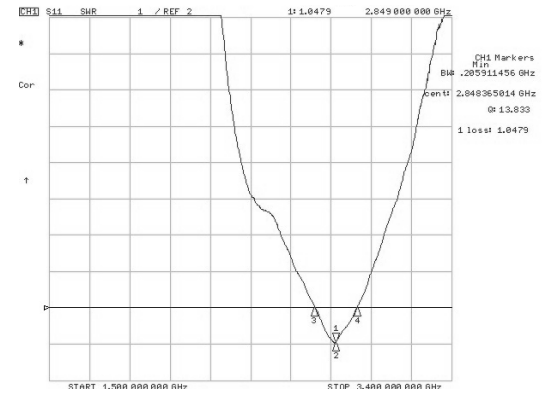
## SLDA52-2R510G-S1TF



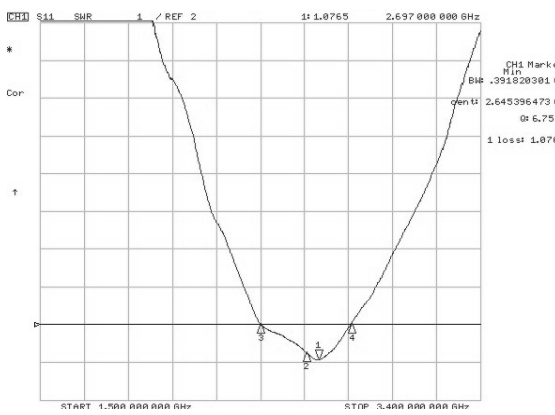
## SLDA52-2R540G-S1TF



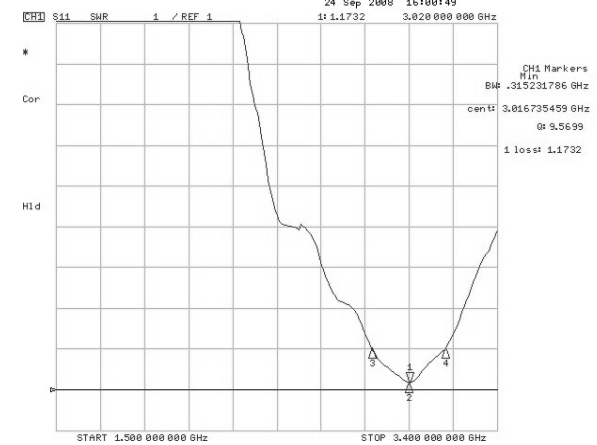
## SLDA62-2R640G-01TF



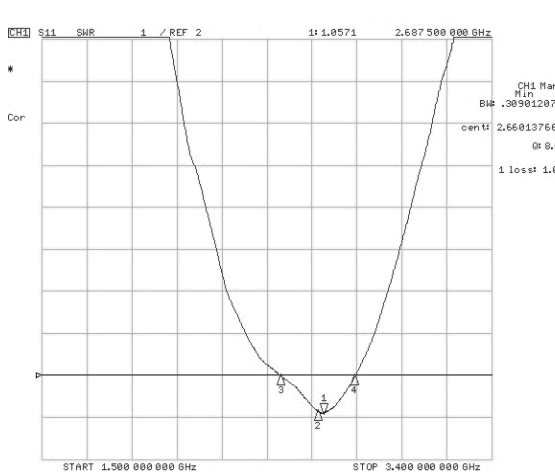
## SLDA72-2R470G-S1TF

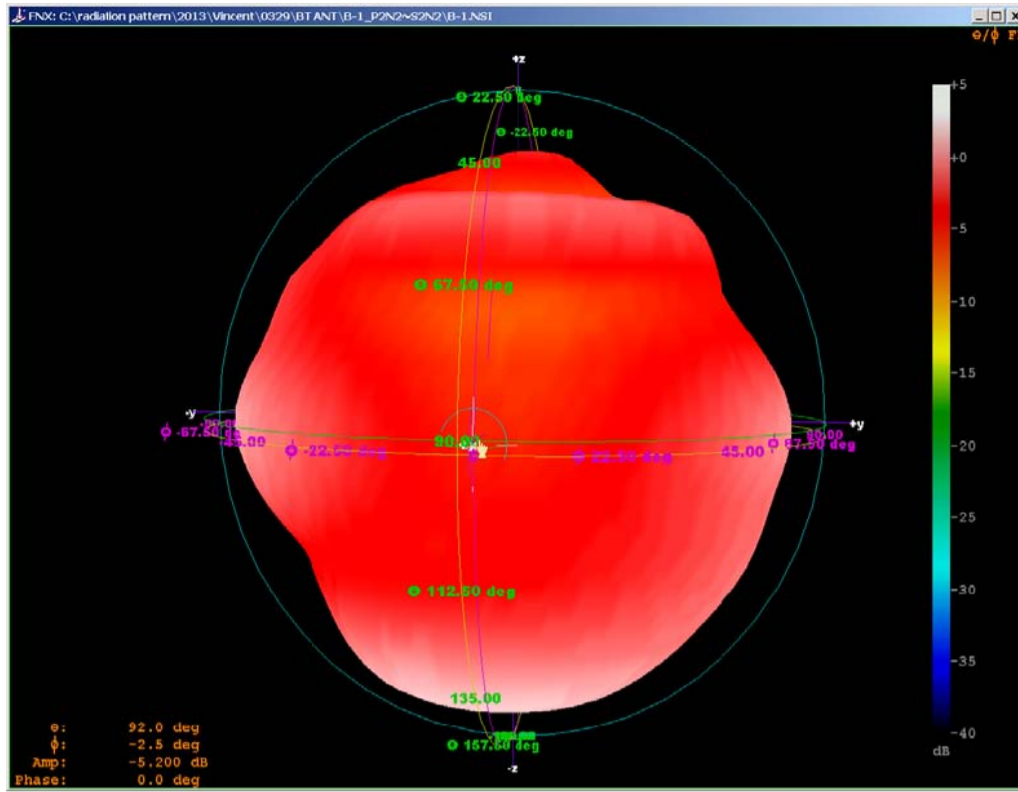


## SLDA81-3R010G-S1TF



## SLDA92-2R660G-S1TF





**3D radiation pattern diagram**

