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

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

1

Type	
SLDA	Multilayer Chip Antenna

2

External Dimensions (L×W) (mm)	
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
92	9.0×2.0
106	10.0×6.0
154	15.0×4.0

3

Center Frequency	
Example	Nominal Value
2R800G	2800.0MHz
2R450G	2450.0MHz

4

Series Code
S1, 01, etc.

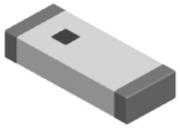
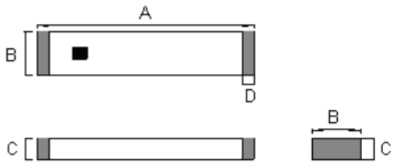
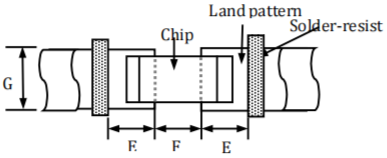
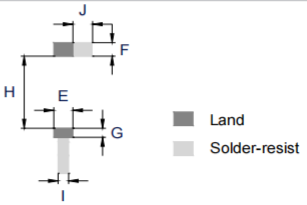
5

Packing	
T	Tape & Reel

6

Hazardous Substance Free Products
F

SHAPE AND LAND PATTERN

Type	Dimensions (mm)
	
Type: 31-2R450G-S1TF	Land Pattern (mm)
	

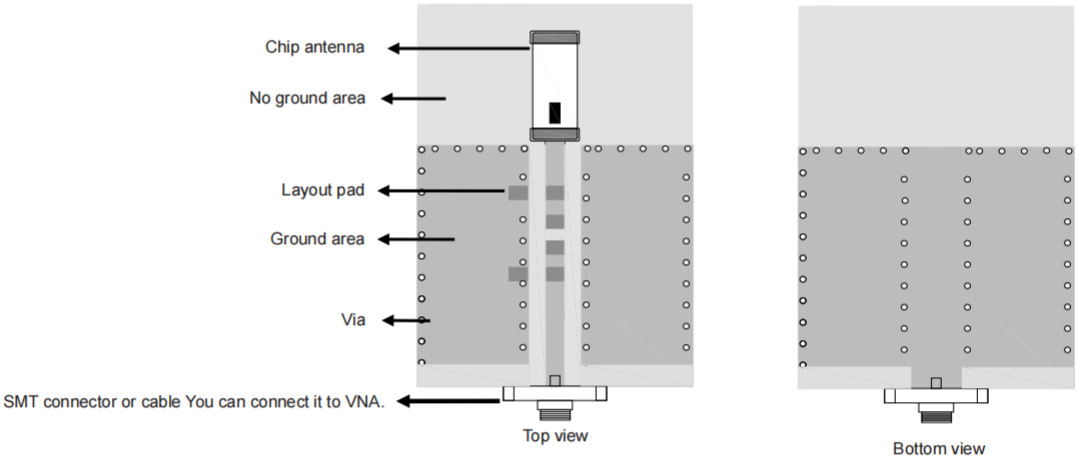
SHAPE AND DIMENSIONS

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	-	-	-	-	-	-

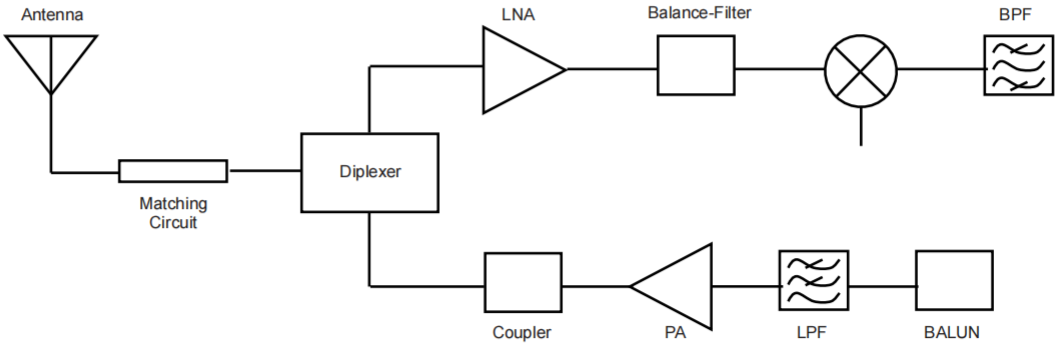
TERINAL-CONFIGURATION

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

EVALUATION BOARD



APPLICATION GUIDE



SPECIFICATIONS

SLDA15 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	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	Ω	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	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 @(XZ-total)	-1.5dBi @(XZ-total)	<2	50	3
SLDA31-2R450G-S2TF	≥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	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	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	Ω	W
SLDA62-2R640G-01TF	≥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	Ω	W
SLDA72-0R900G-31TF	858~928	-1.1dBi	-2.5dBi	<2	50	3
SLDA72-2R470G-S1TF	≥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	Ω	W
SLDA81-3R010G-S1TF	≥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	Ω	W
SLDA92-2R660G-S1TF	≥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	Ω	W
SLDA106-7R000G-31TF	3100~10300	2.2dBi	-3.5dBi.	<2	50	3

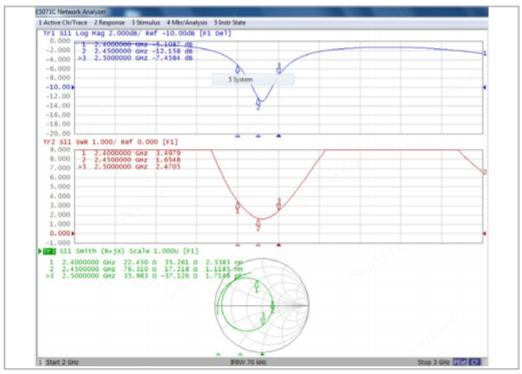
SLDA154 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	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			

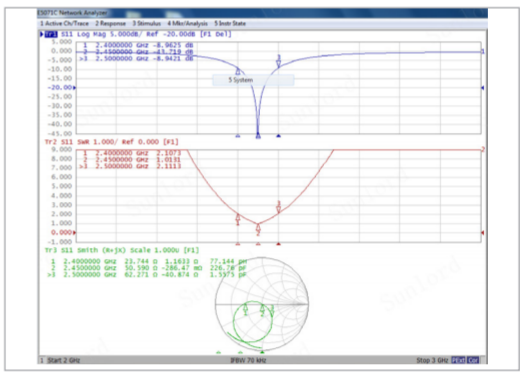
※Frequency will be changed with layout of PCB. Please contact us for appropriate design.

IMPEDANCE MATCHING

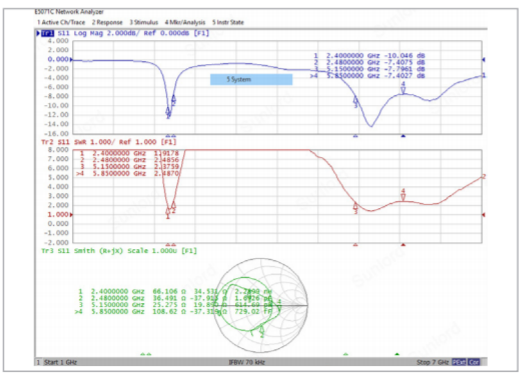
SLDA15-2R450G-36TF



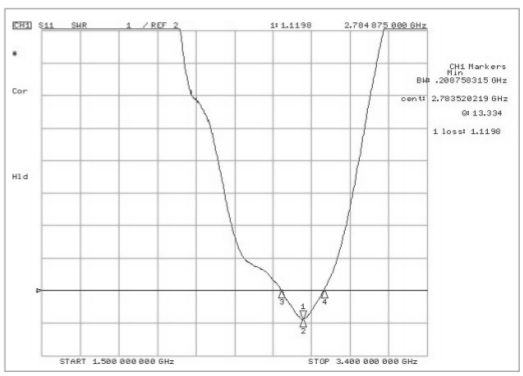
SLDA18-5R500G-36TF



SLDA18-2R450G-31TF

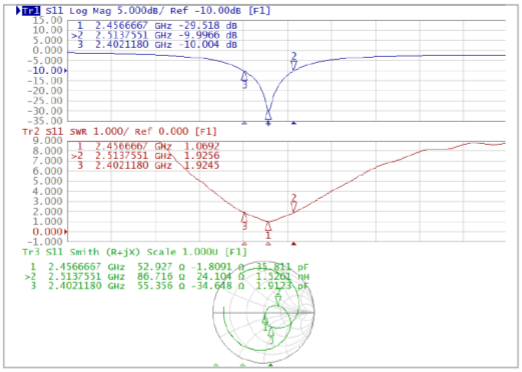


SLDA31-2R800G-S1TF

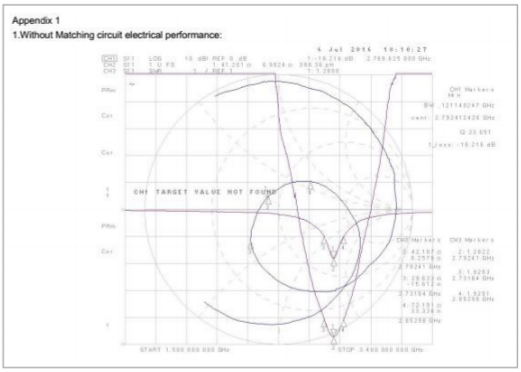


IMPEDANCE MATCHING

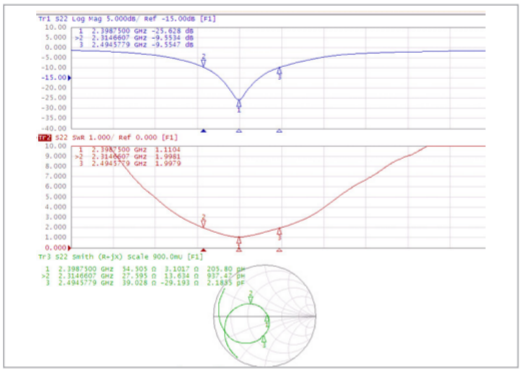
SLDA31-2R400G-S1TF



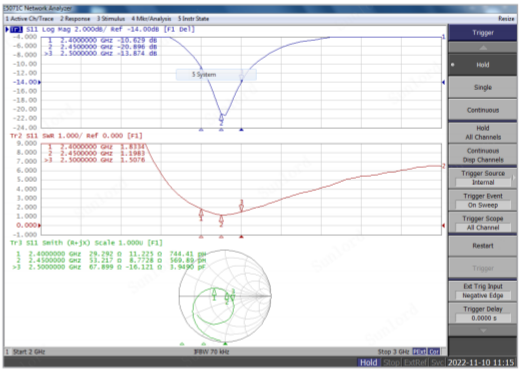
SLDA31-2R450G-S1TF



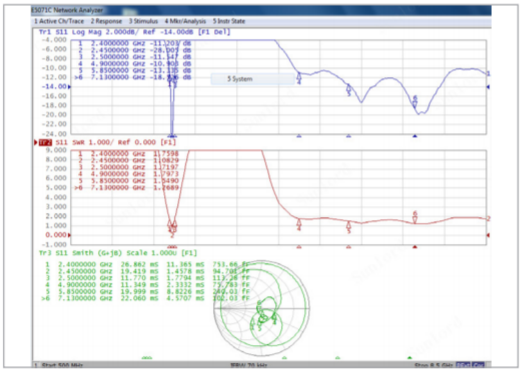
SLDA31-2R450G-S2TF



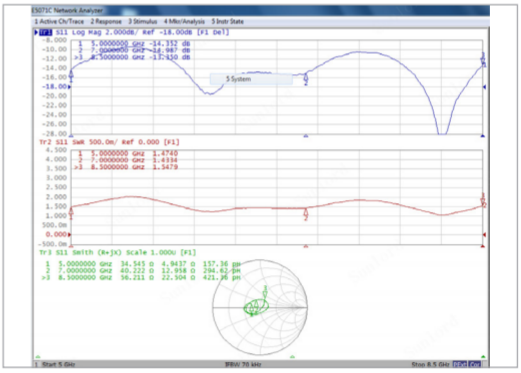
SLDA31-2R450G-36TF



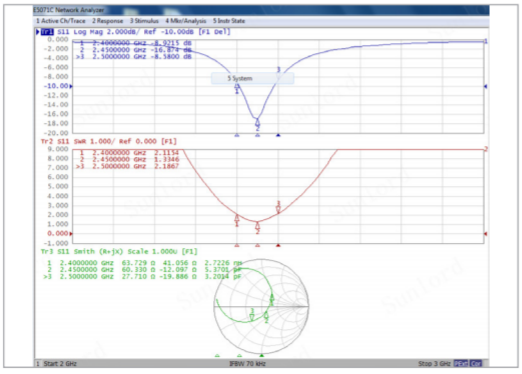
SLDA31-6R050G-31TF



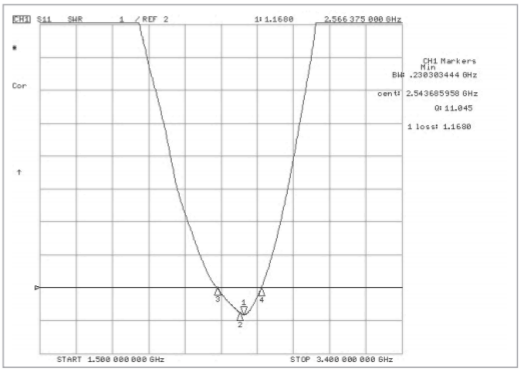
SLDA31-7R000G-31TF



SLDA52-2R450G-31TF

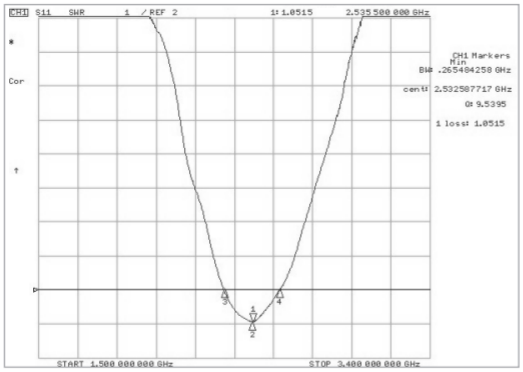


SLDA52-2R510G-S1TF



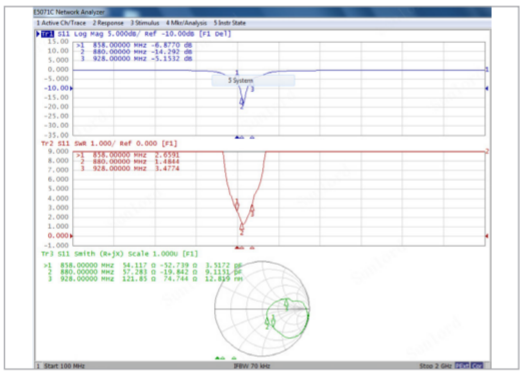
IMPEDANCE MATCHING

SLDA52-2R540G-S1TF

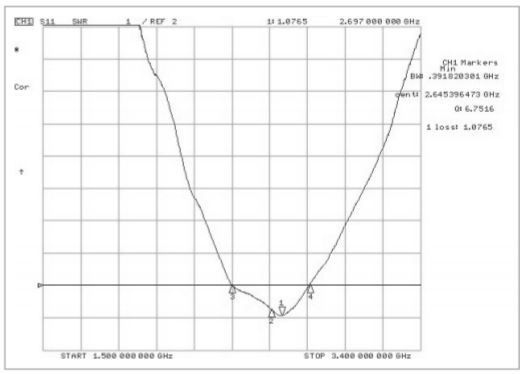


SLDA62-2R640G-01TF

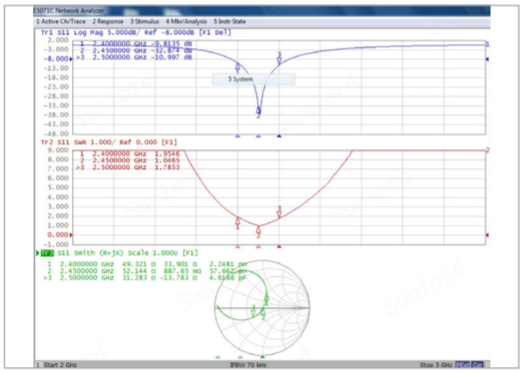
SLDA72-0R900G-31TF



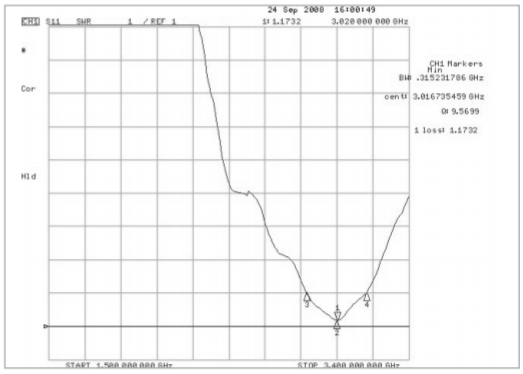
SLDA72-2R470G-S1TF



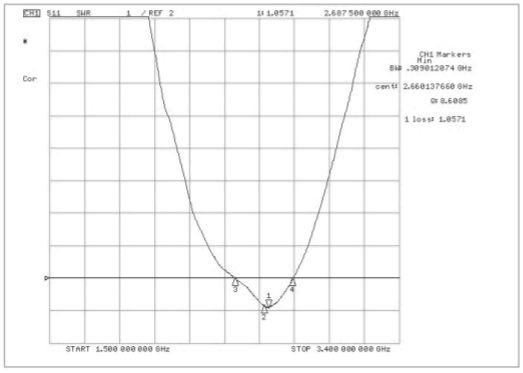
SLDA72-2R450G-31TF



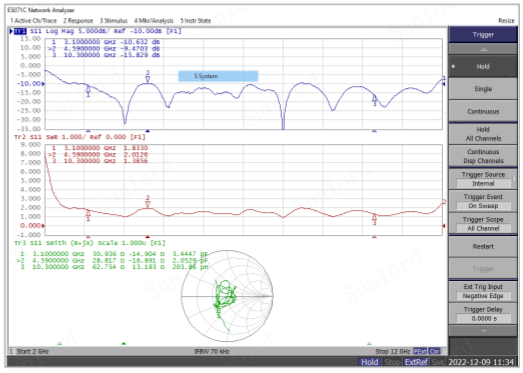
SLDA81-3R010G-S1TF



SLDA92-2R660G-S1TF



SLDA106-7R000G-31TF



IMPEDANCE MATCHING

SLDA154-2R200G-31TF