

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 SLDA	2 31	3 -2R800G	4 -S1	5 T	6 F																												
1 Type <table><tr><td>SLDA</td><td>Multilayer Chip Antenna</td></tr></table>	SLDA	Multilayer Chip Antenna	2 External Dimensions (L×W) (mm) <table><tr><td>15</td><td>1.0×0.5</td></tr><tr><td>18</td><td>1.6×0.8</td></tr><tr><td>31</td><td>3.2×1.6</td></tr><tr><td>52</td><td>5.2×2.1</td></tr><tr><td>62</td><td>6.0×2.0</td></tr><tr><td>72</td><td>7.0×2.0</td></tr><tr><td>81</td><td>8.0×1.0</td></tr><tr><td>92</td><td>9.0×2.0</td></tr><tr><td>106</td><td>10.0×6.0</td></tr><tr><td>154</td><td>15.0×4.0</td></tr></table>		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 <table><tr><td>Example</td><td>Nominal Value</td></tr><tr><td>2R800G</td><td>2800.0MHz</td></tr><tr><td>2R450G</td><td>2450.0MHz</td></tr></table>			Example	Nominal Value	2R800G	2800.0MHz	2R450G	2450.0MHz
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SHAPE AND LAND PATTERN

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

SHAPE AND DIMENSIONS

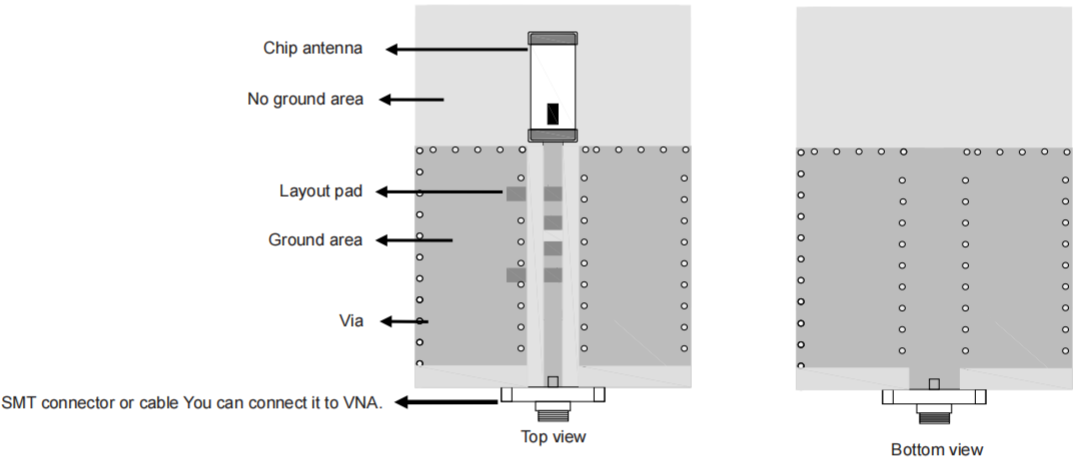
Series	A	B	C	D	E	F	G	H	I	J
SLDA15	1.00±0.1	0.5±0.1	0.4±0.05	0.25±0.1/-0.05	-	-	-	-	-	-
SLDA18	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	-	-	-	-	-	-
SLDA31	3.2±0.2	1.6±0.2	1.2±0.2	0.5±0.2	1.6±0.2	0.8±0.2	0.8±0.2	2.2±0.2	1.4	1.6±0.2
SLDA52	5.2±0.2	2.1±0.2	1.0±0.2	0.5±0.2	2.3±0.2	1.5±0.2	1.0±0.2	4.0±0.2	1.4	2.3±0.2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

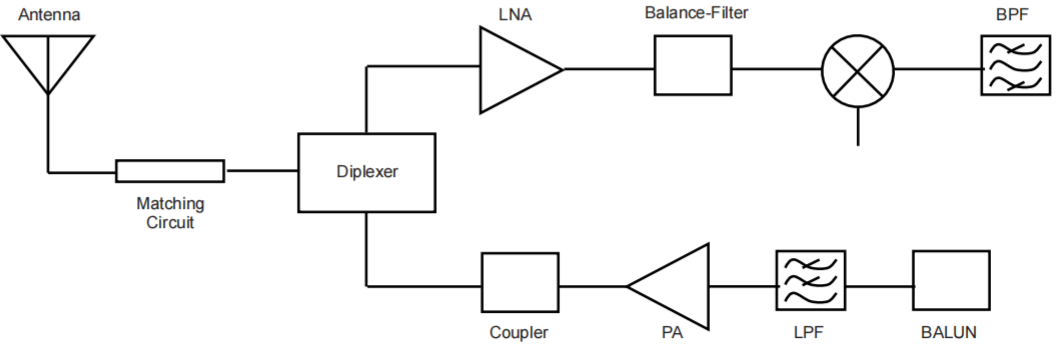


No.	Terminal Name	No.	Terminal Name
(1)	Feeding Point	(2)	NC

EVALUATION
BOARD



APPLICATION
GUIDE



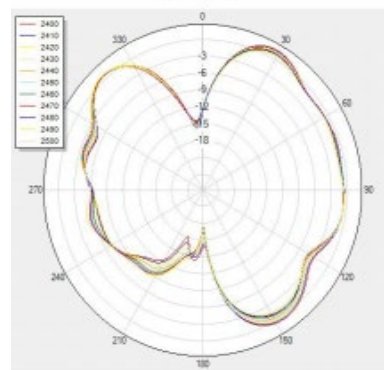
SPECIFICATIONS

SLDA31 TYPE

Part Number	Band Width	Peak Gain	Average Gain	VSWR	Impedance	Power Capacity
	MHz	V-XZ	V-XZ	In BW	Ω	W
SLDA31-2R450G-S2TF	2400~2500	2.5dBi @ (XZ-total)	0.5dBi @ (XZ-total)	<2	50	3

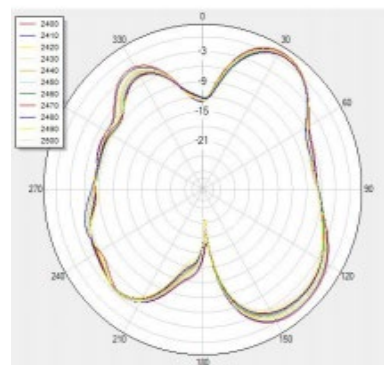
(1) X-Z Plane:

V Phi=0



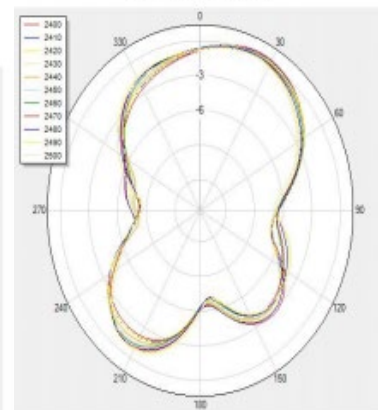
(2) Y-Z Plane:

V Phi=90



(3) X-Y Plane:

H Theta=90



Typical Free Space 3D Radiation Pattern at 2.45GHz

