



# SDS2810 SERIES ~

## Low Profile Shielded Power Inductors



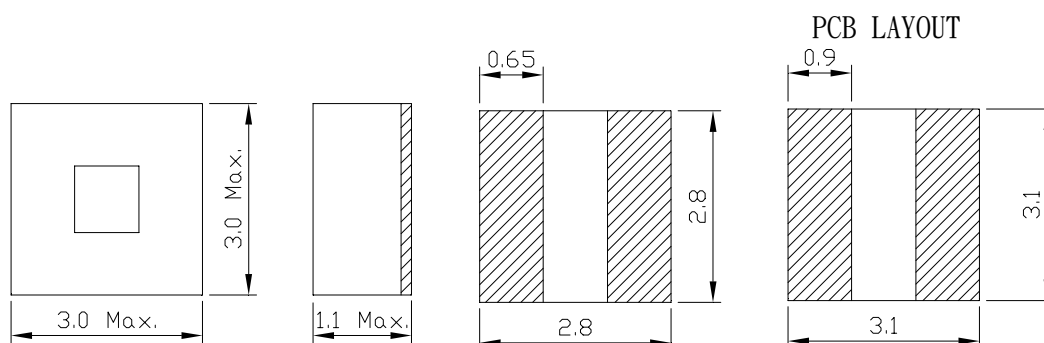
RoHS Compliant

### PART NUMBERING SYSTEM

<b>SDS</b>	<b>2 8 1 0</b>	—	<b>4 R 7 N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES , DIMENSIONS AND RECOMMENDED PATTERNS

UNIT : mm



### FEATURES :

- Excellent shielded construction .
- Low profile inductor ( 3.0x3.0x1.1 mm Max. )
- Lowest DCR / large currents .
- Low buzz noise
- Suitable for DC-DC converters with 2.6Mhz switching frequency .
- Lead Free and RoHS compliant .



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RoHS Compliant

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DC Resistance ( $\Omega$ ) Max.	Isat (A) Max.	Irms (A) Max.	TEST FREQ. ( f )
SDS2810-1R5N-LF	1.5 $\pm$ 30%	0.097	1.20	1.20	100KHz / 500mV
SDS2810-2R2N-LF	2.2 $\pm$ 30%	0.110	1.00	1.00	100KHz / 500mV
SDS2810-3R3N-LF	3.3 $\pm$ 30%	0.200	0.87	0.87	100KHz / 500mV
SDS2810-4R7N-LF	4.7 $\pm$ 30%	0.280	0.70	0.70	100KHz / 500mV
SDS2810-6R8N-LF	6.8 $\pm$ 30%	0.340	0.61	0.61	100KHz / 500mV
SDS2810-100N-LF	10 $\pm$ 30%	0.580	0.45	0.45	100KHz / 500mV
SDS2810-150N-LF	15 $\pm$ 30%	0.860	0.40	0.40	100KHz / 500mV
SDS2810-220N-LF	22 $\pm$ 30%	1.130	0.33	0.33	100KHz / 500mV

- ※ **Isat:** DC current at which the inductance drops 30% (typ) from its value without current.
- ※ **Irms:** Average current for 40°C (max) rise from +25°C ambient.
- ※ **Operating temperature range** -30°C to +85°C.
- ※ **Electrical specifications at 25°C.**
- ※ **Packing :** 7" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel) .

