



SDS2812 SERIES ~

Low Profile Shielded Power Inductors



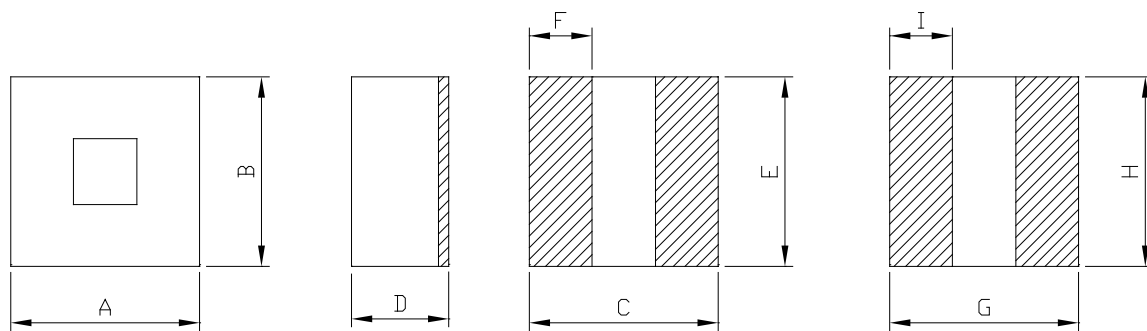
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>2 8 1 2</u>	—	<u>1 R 5 N</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES , DIMENSIONS AND RECOMMENDED PATTERNS

UNIT : mm



A=3.2 Max. B=3.2 Max. C=3.0 Ref. D=1.3 Max. E=3.0 Ref. F=0.9 Ref. G=3.2 Ref. H=3.2 Ref. I=1.1 Ref.

FEATURES :

- Excellent shielded construction .
- Low profile inductor (3.0x3.0x1.2 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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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DC Resistance (Ω) Max.	Isat (A) Max.	Irms (A) Max.	TEST FREQ. (f)
SDS2812-1R5N-LF	1.5 \pm 30%	0.080	1.6	1.6	100KHz 500mV
SDS2812-2R2N-LF	2.2 \pm 30%	0.110	1.5	1.4	100KHz 500mV
SDS2812-3R3N-LF	3.3 \pm 30%	0.150	1.1	1.2	100KHz 500mV
SDS2812-4R7N-LF	4.7 \pm 30%	0.230	0.9	1.0	100KHz 500mV
SDS2812-6R8N-LF	6.8 \pm 30%	0.295	0.8	0.9	100KHz 500mV
SDS2812-100N-LF	10 \pm 30%	0.410	0.6	0.8	100KHz 500mV
SDS2812-150N-LF	15 \pm 30%	0.630	0.5	0.6	100KHz 500mV
SDS2812-220N-LF	22 \pm 30%	0.800	0.4	0.4	100KHz 500mV
SDS2812-330N-LF	33 \pm 30%	1.850	0.3	0.3	100KHz 500mV

- ※ Isat: DC current at which the inductance drops 30% (typ) from its value without current.
- ※ I rms: Average current for 40°C (max) rise from +25°C ambient.
- ※ Operating temperature range -40°C to +125°C.
- ※ Electrical specifications at 20°C.
- ※ Packing : 13" reel, machine-ready ,embossed plastic tape (3,500 parts per full reel) .