



## SDS3012K SERIES ~

### Low Profile Shielded Power Inductors



RoHS Compliant

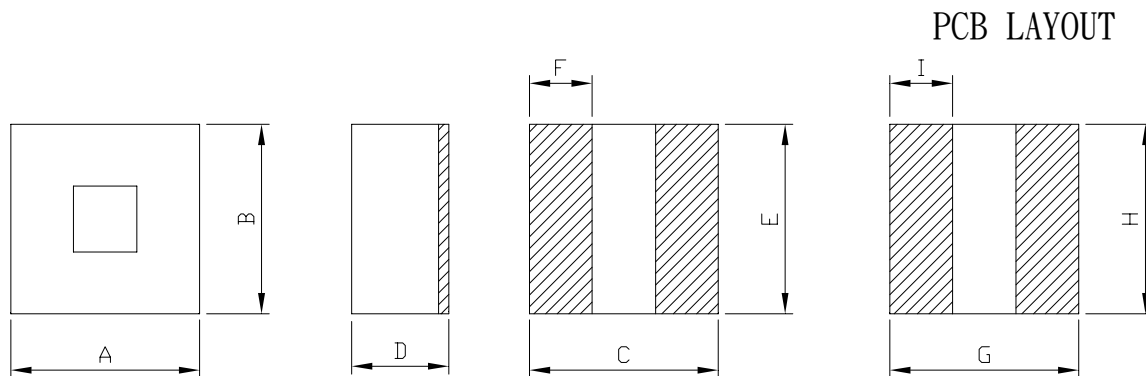
***New Products***

#### PART NUMBERING SYSTEM

<u>SDS</u>	<u>3012K</u>	—	<u>2 2 0 M</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 ( 3.2x3.2x1.2 mm Max. )
- Lowest DCR / large currents .
- Low buzz noise
- Ideal in variety of DC-DC converter inductors application .
- Application for MP3 , PDA , Blue Tooth , LCD panel , Mobile phone .
- Halogen Free , Lead Free and RoHS compliant .



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#### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) Max. ( ) is typ.	Isat (A) Max.	Irms (A) Max.	TEST FREQ. ( f )
SDS3012K-1R5N-LF	1.5 $\pm$ 30%	0.090(0.076)	1.6	1.6	100KHz 500mV
SDS3012K-2R2N-LF	2.2 $\pm$ 30%	0.130(0.108)	1.5	1.4	100KHz 500mV
SDS3012K-3R3N-LF	3.3 $\pm$ 30%	0.170(0.148)	1.1	1.2	100KHz 500mV
SDS3012K-4R7M-LF	4.7 $\pm$ 20%	0.250(0.232)	0.9	1.0	100KHz 500mV
SDS3012K-6R8M-LF	6.8 $\pm$ 20%	0.295(0.275)	0.8	0.9	100KHz 500mV
SDS3012K-100M-LF	10 $\pm$ 20%	0.450(0.402)	0.6	0.8	100KHz 500mV
SDS3012K-150M-LF	15 $\pm$ 20%	0.630(0.580)	0.5	0.6	100KHz 500mV
SDS3012K-220M-LF	22 $\pm$ 20%	0.950(0.890)	0.4	0.4	100KHz 500mV
SDS3012K-330M-LF	33 $\pm$ 20%	1.950(1.800)	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 +85°C.
- ※ Electrical specifications at 20°C.
- ※ Packing : 7" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel) .