

## SDS3012K SERIES ~

### Low Profile Shielded Power Inductors



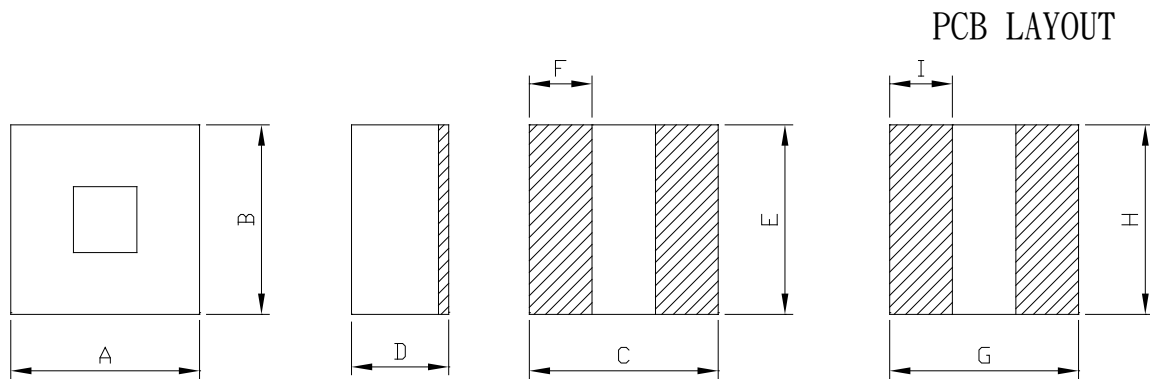
RoHS Compliant

#### PART NUMBERING SYSTEM

|                   |                     |   |                       |   |                  |
|-------------------|---------------------|---|-----------------------|---|------------------|
| <u><b>SDS</b></u> | <u><b>3012K</b></u> | — | <u><b>2 2 0 M</b></u> | — | <u><b>LF</b></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<br>( $\mu$ H) | DCR ( $\Omega$ ) Max.<br>( ) is typ. | Isat (A)<br>Max. | Irms (A)<br>Max. | TEST FREQ.<br>( 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.
- ※ Irms: 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 : 7" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel) .