



# SDS5020D SERIES

## Low Profile Shielded Power Inductors



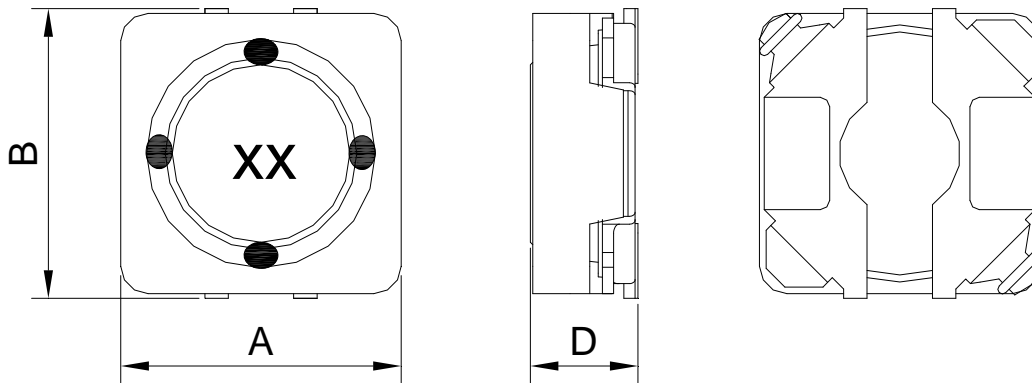
RoHS Compliant

### PART NUMBERING SYSTEM

|            |              |   |                |   |           |
|------------|--------------|---|----------------|---|-----------|
| <b>SDS</b> | <b>5020D</b> | — | <b>1 R 0 N</b> | — | <b>LF</b> |
| TYPE       | DIMENSIONS   |   | INDUCTANCE     |   | LEAD FREE |

### SHAPES AND DIMENSIONS

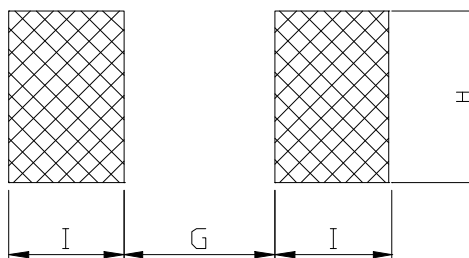
UNIT : mm



**A=5.2 Max. B=5.3 Max. D=2.0 Max.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=1.4 H=5.4 I=2.0**



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#### ELECTRICAL CHARACTERISTICS :

| PART NUMBER      | INDUCTANCE<br>( $\mu$ H) | DCR ( $\Omega$ )<br>Max.(Typ.) | Isat (A)<br>( Max. ) | Irms (A)<br>( Max. ) | Stamp |
|------------------|--------------------------|--------------------------------|----------------------|----------------------|-------|
| SDS5020D-1R0N-LF | 1.0 $\pm$ 30%            | 51.6m(43m)                     | 3.80                 | 2.60                 | 4A    |
| SDS5020D-2R7N-LF | 2.7 $\pm$ 30%            | 90.0m(75m)                     | 2.10                 | 2.00                 | 4F    |
| SDS5020D-4R7M-LF | 4.7 $\pm$ 20%            | 0.120(0.10)                    | 1.80                 | 1.70                 | 4I    |
| SDS5020D-220M-LF | 22 $\pm$ 20%             | 0.276(0.23)                    | 0.75                 | 1.25                 | 4Q    |
| SDS5020D-470M-LF | 47 $\pm$ 20%             | 0.480(0.40)                    | 0.55                 | 0.75                 | 4U    |

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284B LCR meter or equivalent.
- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes  $\Delta 40^{\circ}\text{C}$  . ( Ta=+25 $^{\circ}\text{C}$  )  
Operating temperature range -40 $^{\circ}\text{C}$  to +85 $^{\circ}\text{C}$  , Electrical specifications at 25 $^{\circ}\text{C}$ .