

## SDS4018D SERIES

### Low Profile Shielded Power Inductors



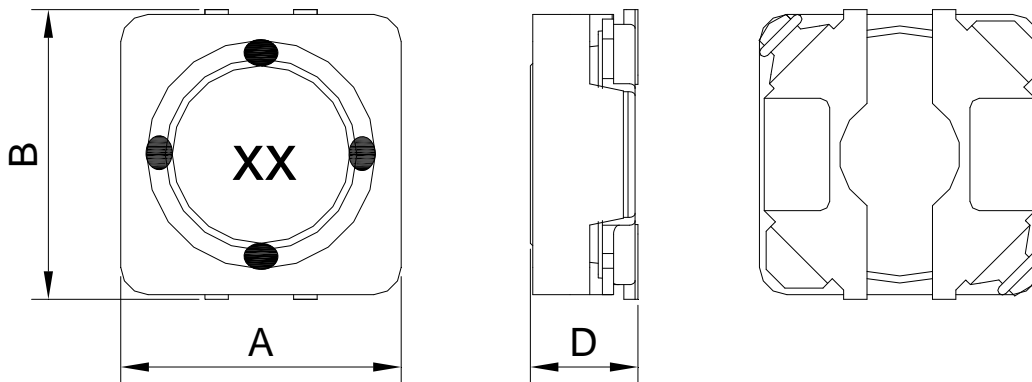
RoHS Compliant

#### PART NUMBERING SYSTEM

<b>SDS</b>	<b>4018D</b>	<b>—</b>	<b>3 R 3 N</b>	<b>—</b>	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

#### SHAPES AND DIMENSIONS

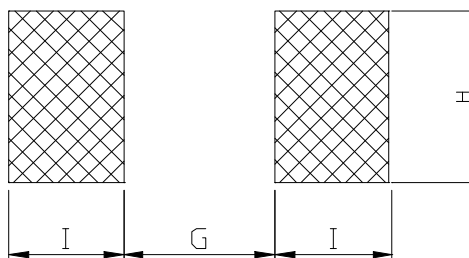
UNIT : mm



**A=4.2 Max. B=4.3 Max. D=1.8 Max.**

#### RECOMMENDED PATTERNS

UNIT : mm



**G=1.0 H=4.3 I=1.6**

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#### ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) Max.(Typ.)	Isat (A) ( Max. )	Irms (A) ( Max. )	Stamp
SDS4018D-1R0N-LF	1.0 $\pm$ 30%	51.6m(41m)	2.70	2.40	3A
SDS4018D-1R2N-LF	1.2 $\pm$ 30%	60.0m(46m)	2.30	2.20	3B
SDS4018D-1R5N-LF	1.5 $\pm$ 30%	68.4m(51m)	2.10	2.00	3C
SDS4018D-1R8N-LF	1.8 $\pm$ 30%	96.0m(59m)	1.90	1.85	3D
SDS4018D-2R2N-LF	2.2 $\pm$ 30%	96.0m(59m)	1.90	1.85	3E
SDS4018D-3R3N-LF	3.3 $\pm$ 30%	0.119(74m)	1.40	1.60	3G
SDS4018D-3R9N-LF	3.9 $\pm$ 30%	0.156(82m)	1.30	1.50	3H
SDS4018D-4R7M-LF	4.7 $\pm$ 20%	0.228(99m)	1.20	1.35	3O
SDS4018D-5R6M-LF	5.6 $\pm$ 20%	0.336(0.11)	1.10	1.25	3Q
SDS4018D-6R8M-LF	6.8 $\pm$ 20%	0.408(0.13)	1.00	1.20	3S
SDS4018D-8R2M-LF	8.2 $\pm$ 20%	0.636(0.14)	0.90	1.10	3U
SDS4018D-100M-LF	10 $\pm$ 20%	0.900(0.15)	0.85	1.00	3M
SDS4018D-120M-LF	12 $\pm$ 20%	0.228(0.22)	0.80	0.95	3O
SDS4018D-150M-LF	15 $\pm$ 20%	0.336(0.24)	0.70	0.90	3Q
SDS4018D-180M-LF	18 $\pm$ 20%	0.408(0.26)	0.65	0.85	3S
SDS4018D-220M-LF	22 $\pm$ 20%	0.636(0.37)	0.55	0.75	3U
SDS4018D-270M-LF	27 $\pm$ 20%	0.900(0.42)	0.50	0.70	3M
SDS4018D-330M-LF	33 $\pm$ 20%	0.228(0.48)	0.45	0.60	3M
SDS4018D-470M-LF	47 $\pm$ 20%	0.228(0.62)	0.40	0.50	3O

- 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 $^{\circ}\text{C}$ .