



## SDS3020D SERIES ~ Shielded SMD Power Inductors

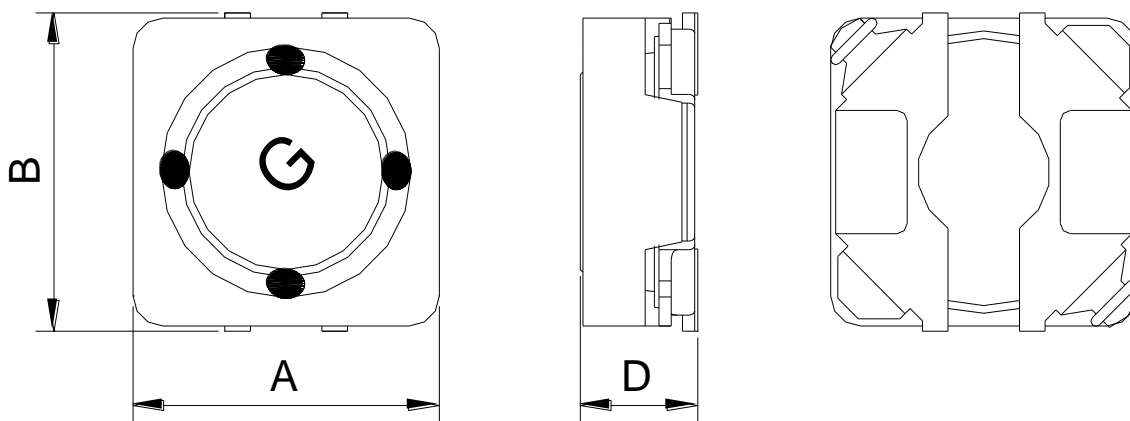


### PART NUMBERING SYSTEM

<b>SDS</b>	<b>3020D</b>	—	<b>6R8M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

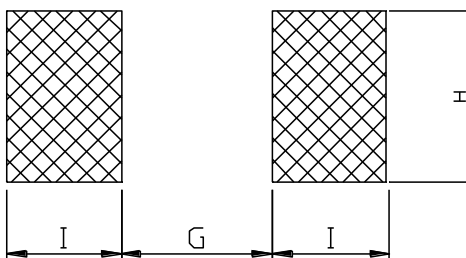
UNIT : mm



**A=3.2 Max. B=3.5 Max. D=2.0 Max.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=0.6 H=3.3 I=1.3**

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### ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) Max.(Typ.)	Isat (A) ( Max. )	Irms (A) ( Max. )	Stamp
SDS3020D-1R5N-LF	1.5 $\pm$ 30%	76.8m(64m)	1.80	1.70	C
SDS3020D-2R2N-LF	2.2 $\pm$ 30%	0.104(87m)	1.40	1.45	E
SDS3020D-3R3N-LF	3.3 $\pm$ 30%	0.120(0.10)	1.20	1.30	G
SDS3020D-4R7M-LF	4.7 $\pm$ 20%	0.180(0.15)	1.00	1.15	I
SDS3020D-6R8M-LF	6.8 $\pm$ 20%	0.216(0.18)	0.87	1.05	K
SDS3020D-470M-LF	47 $\pm$ 20%	1.692(1.41)	0.32	0.25	U

- 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  $+125^{\circ}\text{C}$  , Electrical specifications at  $25^{\circ}\text{C}$ .