



SDS3012D SERIES ~ Shielded SMD Power Inductors

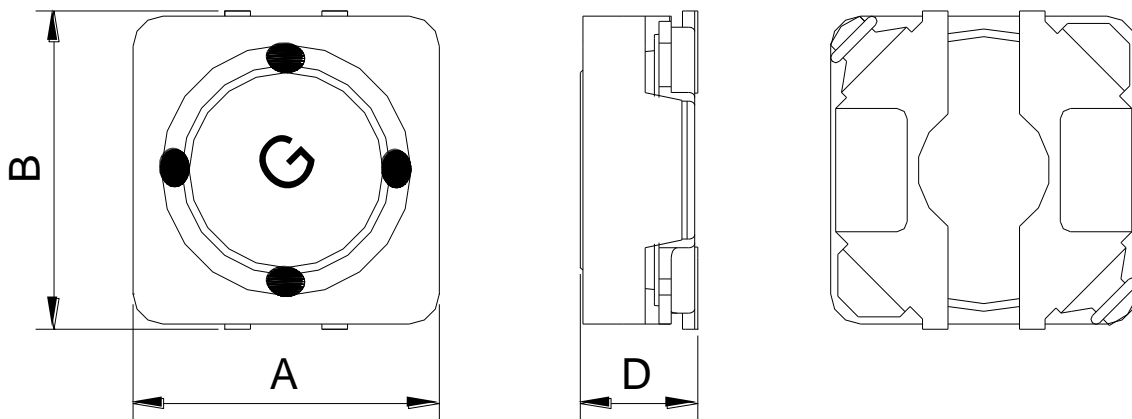


PART NUMBERING SYSTEM

SDS	3012D	—	6R8M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

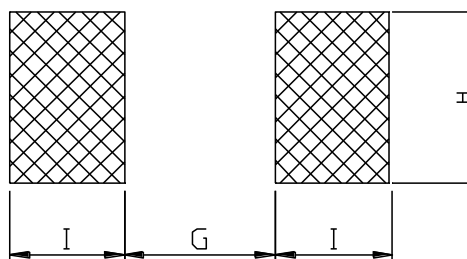
UNIT : mm



A=3.2 Max. B=3.5 Max. D=1.2 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=0.6 H=3.3 I=1.3

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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μ H)	DCR (Ω) Max.(Typ.)	Isat (A) (Max.)	Irms (A) (Max.)	Stamp
SDS3012D-1R0N-LF	1.0 \pm 30%	66.0m(55m)	1.50	1.80	A
SDS3012D-1R2N-LF	1.2 \pm 30%	75.6m(63m)	1.40	1.65	B
SDS3012D-1R5N-LF	1.5 \pm 30%	90.0m(75m)	1.30	1.50	C
SDS3012D-2R2N-LF	2.2 \pm 30%	0.132(0.11)	1.00	1.30	E
SDS3012D-3R3N-LF	3.3 \pm 30%	0.180(0.15)	0.87	1.10	G
SDS3012D-3R9N-LF	3.9 \pm 20%	0.216(0.18)	0.82	1.00	H
SDS3012D-4R7M-LF	4.7 \pm 20%	0.252(0.21)	0.75	0.90	I
SDS3012D-5R6M-LF	5.6 \pm 20%	0.324(0.27)	0.65	0.80	J
SDS3012D-6R8M-LF	6.8 \pm 20%	0.396(0.33)	0.60	0.70	K
SDS3012D-8R2M-LF	8.2 \pm 20%	0.456(0.38)	0.55	0.65	L
SDS3012D-100M-LF	10 \pm 20%	0.492(0.41)	0.50	0.60	M
SDS3012D-120M-LF	12 \pm 20%	0.660(0.55)	0.45	0.55	N
SDS3012D-150M-LF	15 \pm 20%	0.816(0.68)	0.40	0.45	O
SDS3012D-220M-LF	22 \pm 20%	1.140(0.95)	0.35	0.35	Q

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