

SDS3D15 SERIES

Low Profile Shielded Power Inductors



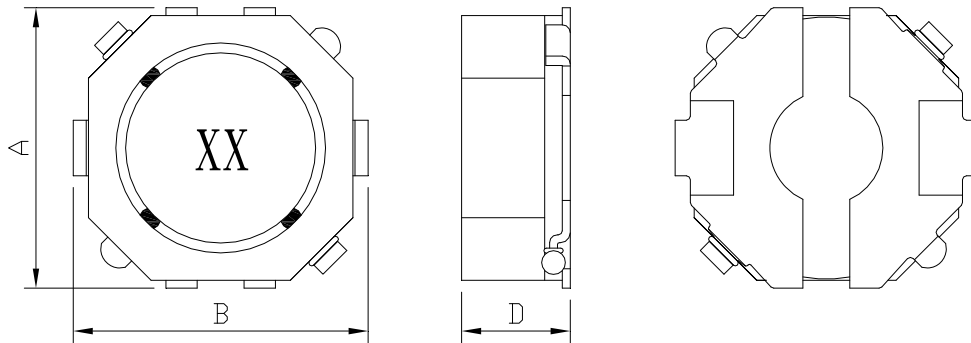
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDS</u>	<u>3D15</u>	—	<u>1R0N</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

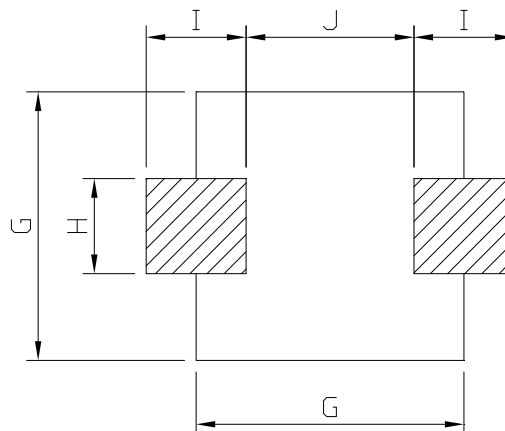
UNIT : mm



A=4.0 Max. B=4.0 Max. D=1.5 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=4.0 H=1.5 I=1.4 J=2.0

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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) Max.(Typ.)	Isat (A) (Max.)	Irms (A) (Max.)	Stamp
SDS3D15-1R0N-LF	1.0 $\pm$ 30%	78(62)	2.00	1.80	1R0
SDS3D15-1R5N-LF	1.5 $\pm$ 30%	94(75)	1.70	1.70	1R5
SDS3D15-2R2N-LF	2.2 $\pm$ 30%	106(85)	1.40	1.60	2R2
SDS3D15-2R7N-LF	2.7 $\pm$ 30%	118(95)	1.30	1.50	2R7
SDS3D15-3R3N-LF	3.3 $\pm$ 30%	131(105)	1.10	1.40	3R3
SDS3D15-3R9N-LF	3.9 $\pm$ 30%	143(115)	1.00	1.30	3R9
SDS3D15-4R7N-LF	4.7 $\pm$ 30%	162(130)	0.95	1.20	4R7
SDS3D15-5R6N-LF	5.6 $\pm$ 30%	175(140)	0.90	1.10	5R6
SDS3D15-6R8N-LF	6.8 $\pm$ 30%	212(170)	0.85	1.00	6R8
SDS3D15-8R2N-LF	8.2 $\pm$ 30%	237(190)	0.80	0.95	8R2
SDS3D15-100M-LF	10 $\pm$ 20%	262(210)	0.70	0.90	100
SDS3D15-120M-LF	12 $\pm$ 20%	350(280)	0.60	0.80	120
SDS3D15-150M-LF	15 $\pm$ 20%	456(365)	0.55	0.75	150
SDS3D15-180M-LF	18 $\pm$ 20%	506(405)	0.50	0.70	180
SDS3D15-220M-LF	22 $\pm$ 20%	575(460)	0.45	0.55	220
SDS3D15-270M-LF	27 $\pm$ 20%	675(540)	0.40	0.53	270
SDS3D15-330M-LF	33 $\pm$ 20%	937(750)	0.35	0.50	330
SDS3D15-390M-LF	39 $\pm$ 20%	1037(830)	0.32	0.45	390
SDS3D15-470M-LF	47 $\pm$ 20%	1262(1010)	0.28	0.43	470

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B 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 $^{\circ}\text{C}$.
 Packing : 13" reel, machine-ready ,embossed plastic tape (3,000 parts per full reel).