

SDC3D14J SERIES

Low Profile Shielded Power Inductors



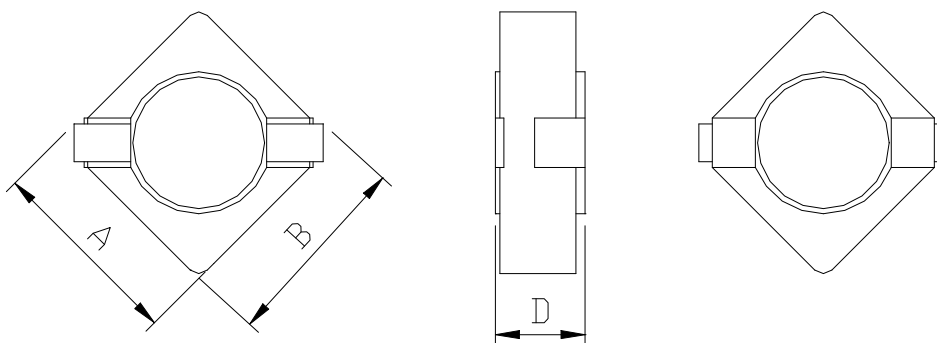
RoHS Compliant

PART NUMBERING SYSTEM

SDC	3D14J	—	1R5N	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

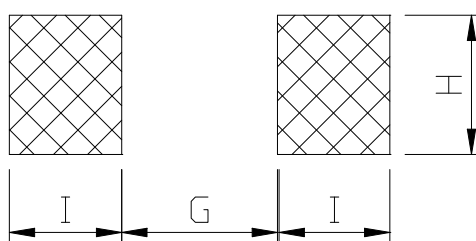
UNIT : mm



A=3.8 max. B=3.8 max. D=1.5 max.

RECOMMENDED PATTERNS

UNIT : mm



G=2.4 H=1.5 I=1.5

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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SDC3D14J-1R5N-LF	1.5 $\pm$ 30%	70	2.33	2.35	100KHz
SDC3D14J-3R3N-LF	3.3 $\pm$ 30%	130	1.53	1.68	100KHz
SDC3D14J-4R7N-LF	4.7 $\pm$ 30%	195	1.30	1.36	100KHz
SDC3D14J-5R6N-LF	5.6 $\pm$ 30%	210	1.15	1.31	100KHz
SDC3D14J-6R8N-LF	6.8 $\pm$ 30%	305	1.06	1.08	100KHz
SDC3D14J-8R2N-LF	8.2 $\pm$ 30%	330	0.97	1.04	100KHz
SDC3D14J-100M-LF	10 $\pm$ 20%	370	0.87	0.98	100KHz
SDC3D14J-120M-LF	12 $\pm$ 20%	500	0.80	0.84	100KHz
SDC3D14J-150M-LF	15 $\pm$ 20%	715	0.70	0.71	100KHz
SDC3D14J-220M-LF	22 $\pm$ 20%	880	0.59	0.63	100KHz

- 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 -25 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$, Electrical specifications at 25 $^{\circ}\text{C}$.
- Packing : 7" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel).