



SDC3D14 SERIES

Low Profile Shielded Power Inductors



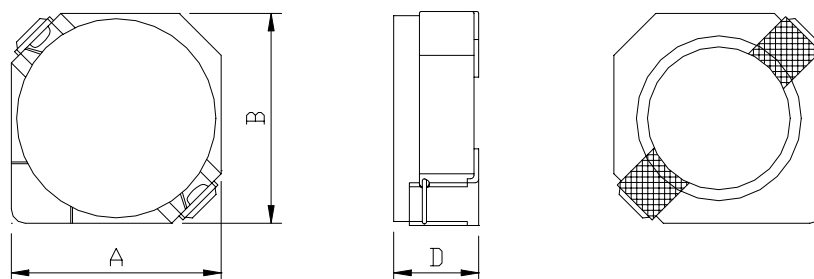
RoHS Compliant

PART NUMBERING SYSTEM

SDC	3 D 1 4	—	1 R 2 N	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

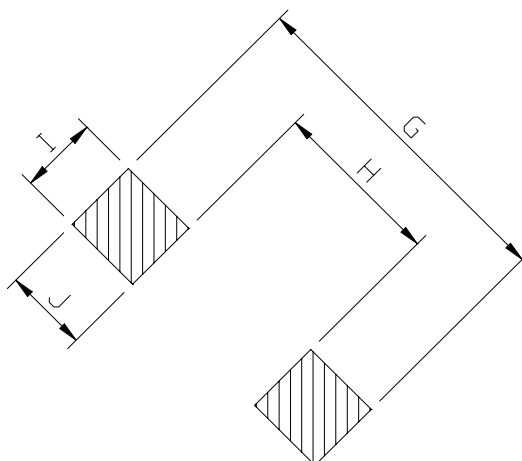
UNIT : mm



A=4.00 max. B=4.00 max. D=1.5 max.

RECOMMENDED PATTERNS

UNIT : mm



G= 5.2 H= 2.4 I= 1.5 J= 1.4



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (max)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SDC3D14-1R2N-LF	1.2 \pm 30%	45	2.15	2.20	100KHz
SDC3D14-1R7N-LF	1.7 \pm 30%	63	1.85	2.00	100KHz
SDC3D14-2R2N-LF	2.2 \pm 30%	69	1.60	1.75	100KHz
SDC3D14-2R7N-LF	2.7 \pm 30%	88	1.45	1.36	100KHz
SDC3D14-3R3N-LF	3.3 \pm 30%	100	1.35	1.24	100KHz
SDC3D14-3R9N-LF	3.9 \pm 30%	135	1.15	1.12	100KHz
SDC3D14-4R7N-LF	4.7 \pm 30%	150	1.10	0.96	100KHz
SDC3D14-8R2N-LF	8.2 \pm 30%	238	0.82	0.74	100KHz
SDC3D14-100N-LF	10 \pm 30%	262	0.75	0.69	100KHz
SDC3D14-120N-LF	12 \pm 30%	350	0.67	0.60	100KHz
SDC3D14-150N-LF	15 \pm 30%	488	0.60	0.58	100KHz
SDC3D14-220N-LF	22 \pm 30%	575	0.52	0.43	100KHz

- Isat : DC current at which the inductance drops 35% (typ) from its value without current.
- Irms: The actual current when temperature of coil becomes $\Delta 40^{\circ}\text{C}$. (Ta=+20 $^{\circ}\text{C}$)
- Operating temperature range -40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$, Electrical specifications at 20 $^{\circ}\text{C}$.
- Packing : 13" reel, machine-ready ,embossed plastic tape (2,000 parts per full reel).