

SDC3D16 SERIES - Low Profile SMD Power Inductors

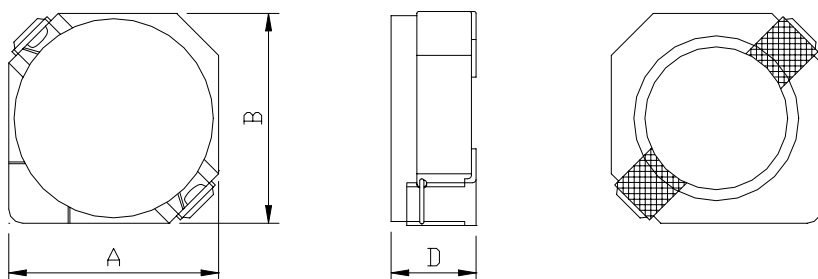


PART NUMBERING SYSTEM

<u>SDC</u>	<u>3 D 1 6</u>	—	<u>1 R 5 N</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

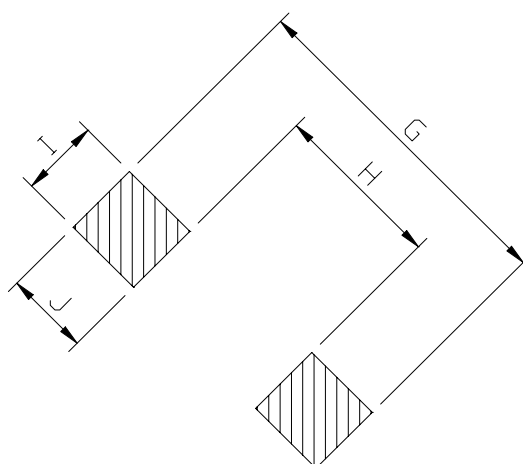
UNIT : mm



A=4.00 max. B=4.00 max. D=1.8 max.

RECOMMENDED PATTERNS

UNIT : mm



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

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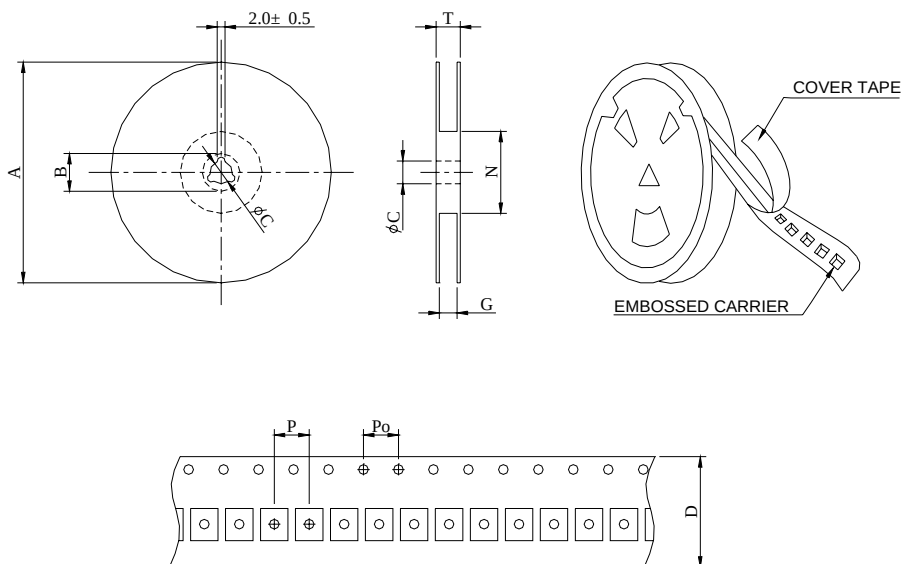
RoHS Compliant

SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SDC3D16-1R5N-LF	1.5 $\pm$ 30%	52	1.55	1.55	100KHz
SDC3D16-2R2N-LF	2.2 $\pm$ 30%	72	1.20	1.20	100KHz
SDC3D16-3R3N-LF	3.3 $\pm$ 30%	85	1.10	1.10	100KHz
SDC3D16-4R7N-LF	4.7 $\pm$ 30%	105	0.90	0.90	100KHz
SDC3D16-6R8N-LF	6.8 $\pm$ 30%	170	0.73	0.73	100KHz
SDC3D16-100N-LF	10 $\pm$ 30%	210	0.55	0.55	100KHz
SDC3D16-150N-LF	15 $\pm$ 30%	295	0.45	0.45	100KHz
SDC3D16-220N-LF	22 $\pm$ 30%	430	0.40	0.40	100KHz
SDC3D16-330N-LF	33 $\pm$ 30%	675	0.32	0.32	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°C)
- Operating temperature range -40°C to +85°C , Electrical specifications at 20°C.
- Packing : 13" reel, machine-ready ,embossed plastic tape (2,000 parts per full reel)..

PACKAGING SPECIFICATION



SERIES	STAYLE	Q ' TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁻⁰	P	Po	T
SDC3D16	13-16	2000	330	21	13	16	18	50	8	4	22.4