

## SDC3D16S SERIES~ SMD Shielded Power Inductors

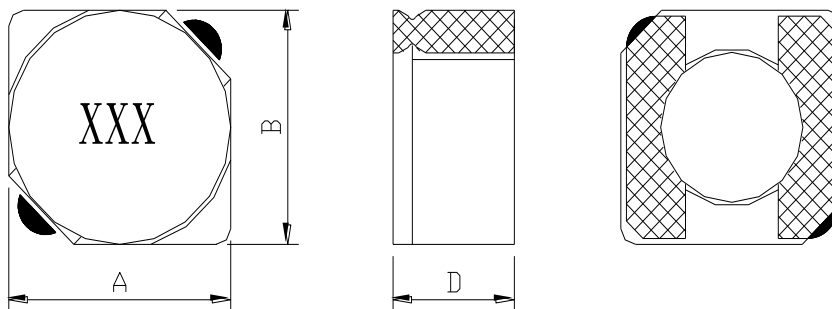


### PART NUMBERING SYSTEM

<b>SDC</b>	<b>3D16S</b>	—	<b>100N</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

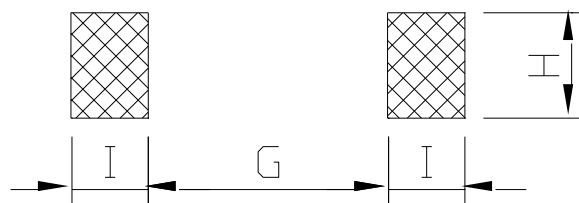
UNIT : mm



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

### PCB LAYOUT

UNIT : mm



G=1.20 H=4.00 I=1.50

### FEATURES

- Only 4 mm square and 2 mm high
- Magnetically shielded
- Saturation current rating up to 1.2 Amps
- Inductance ratings from 3.3 to 100  $\mu$ H
- Very high reliability and low cost
- RoHS-compliant. 260°C compatible. Matte tin over nickel over phos bronze terminations

## SDC3D16S SERIES~ SMD Shielded Power Inductors

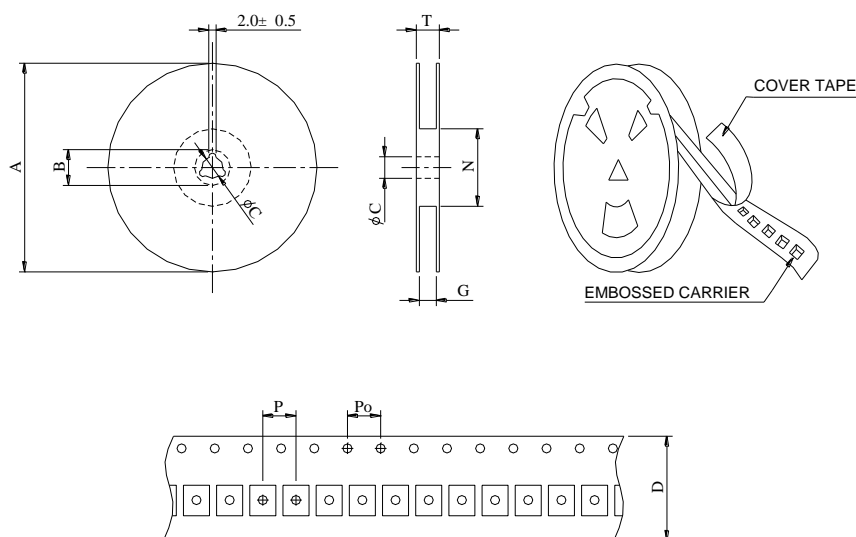


### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) (Max.)	Isat (A) ( Max. )	Irms (A) ( Max. )	TEST FREQ. ( f )
SDC3D16S-1R5N-LF	1.5 $\pm$ 30%	52	1.55	1.55	100KHz
SDC3D16S-2R2N-LF	2.2 $\pm$ 30%	72	1.20	1.20	100KHz
SDC3D16S-3R3N-LF	3.3 $\pm$ 30%	85	1.10	1.10	100KHz
SDC3D16S-4R7N-LF	4.7 $\pm$ 30%	105	0.90	0.90	100KHz
SDC3D16S-6R8N-LF	6.8 $\pm$ 30%	170	0.73	0.73	100KHz
SDC3D16S-100N-LF	10 $\pm$ 30%	210	0.55	0.55	100KHz
SDC3D16S-150N-LF	15 $\pm$ 30%	295	0.45	0.45	100KHz
SDC3D16S-220N-LF	22 $\pm$ 30%	430	0.40	0.40	100KHz
SDC3D16S-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  $\Delta 40^{\circ}\text{C}$ . (  $T_a = +25^{\circ}\text{C}$  )
- Operating temperature range  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ , Electrical specifications at  $25^{\circ}\text{C}$ .

### PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B $\pm 0.8$	C $\pm 0.5$	D	G $^{+0}$	N $^{-0}$	P	Po	T
SDC3D16S	13-16	2,000	330	21	13	16	18	50	8	4	22.4