



# SDC3D14HPS SERIES

## Low Profile Shielded Power Inductors



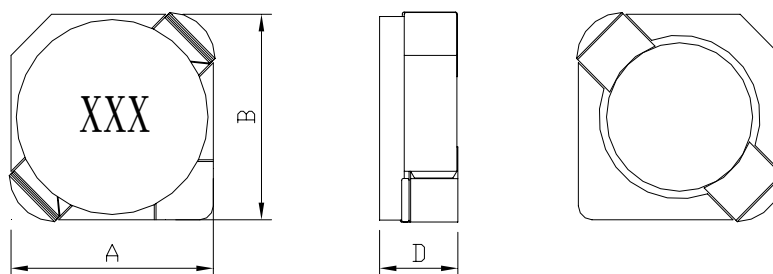
RoHS Compliant

### PART NUMBERING SYSTEM

<b>SDC</b>	<b>3D14HPS</b>	<b>—</b>	<b>1 R 5 N</b>	<b>—</b>	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

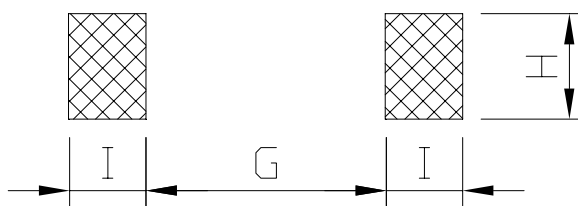
UNIT : mm



**A=4.0 Max. B=4.0 Max. D=1.6 Max.**

### PCB LAYOUT

UNIT : mm



**G=1.20 H=4.00 I=1.50**

### FEATURES

- Only **4.0 mm square** and **1.6 mm high**
- **Magnetically shielded, low profile** power inductor
- Saturation current rating **up to 2.6 Amps**
- Inductance ratings from 1.5 to 22  $\mu$ H
- **RoHS-compliant.** 260°C compatible. Gold over nickel over phos bronze terminations



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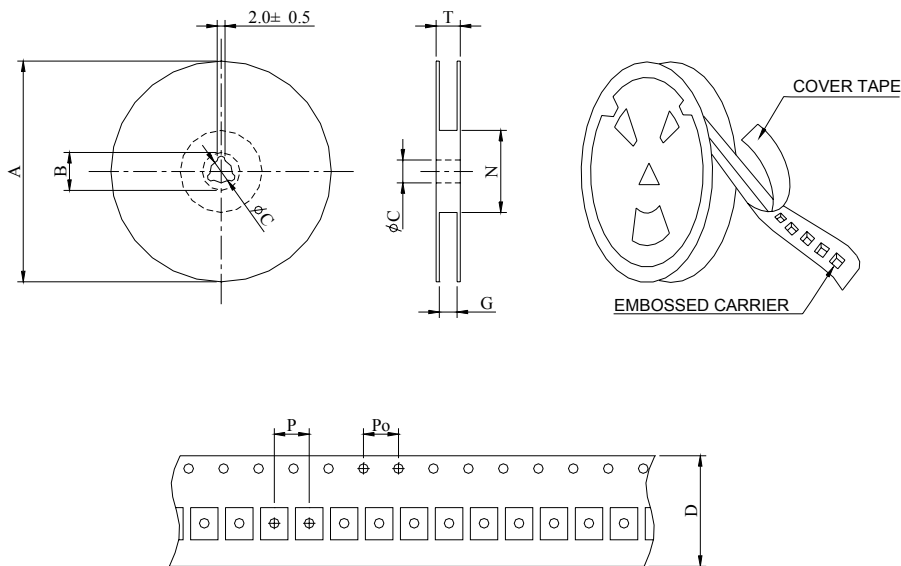
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#### ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR (m $\Omega$ ) (max)	Isat (A) ( Max. )	Irms (A) ( Max. )	TEST FREQ. ( f )
SDC3D14HPS-1R5N-LF	1.5 $\pm$ 30%	76	2.60	1.85	100KHz
SDC3D14HPS-2R4N-LF	2.4 $\pm$ 30%	129	2.00	1.32	100KHz
SDC3D14HPS-3R2N-LF	3.2 $\pm$ 30%	139	1.80	1.25	100KHz
SDC3D14HPS-4R7N-LF	4.7 $\pm$ 30%	214	1.45	1.04	100KHz
SDC3D14HPS-6R8N-LF	6.8 $\pm$ 30%	290	1.20	0.84	100KHz
SDC3D14HPS-100N-LF	10 $\pm$ 30%	440	1.00	0.67	100KHz
SDC3D14HPS-150N-LF	15 $\pm$ 30%	650	0.80	0.50	100KHz
SDC3D14HPS-220N-LF	22 $\pm$ 30%	830	0.65	0.48	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).

#### PACKAGING SPECIFICATION



SERIES	STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)								
			A	B $\pm$ 0.8	C $\pm$ 0.5	D	G <sup>+</sup> 0	N <sup>-</sup> 0	P	Po	T
SDC3D14HPS	13-16	2000	330	21	13	16	18	50	8	4	22.4