



SDC3D14HPS SERIES~ Low Profile Shielded Power

Inductors

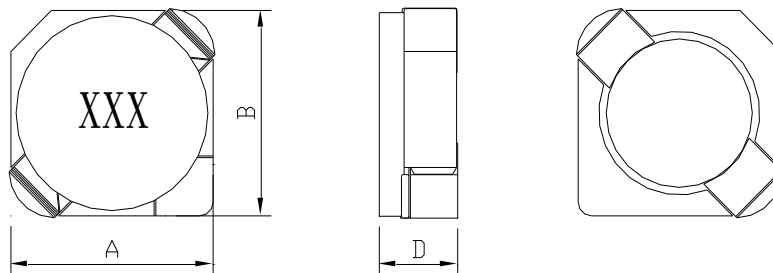


PART NUMBERING SYSTEM

SDC	3D14HPS	—	1R5N	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

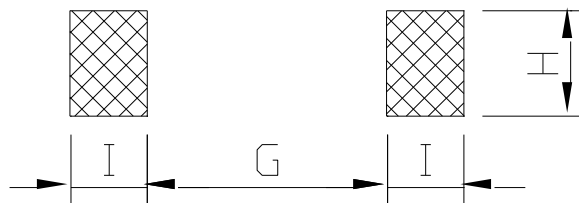
UNIT : mm



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 μ H
- RoHS-compliant. 260°C compatible. Gold over nickel over phos bronze terminations



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ELECTRICAL CHARACTERISTICS :

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (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=+25 $^{\circ}\text{C}$)
- Operating temperature range -40 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$, Electrical specifications at 25 $^{\circ}\text{C}$.
- Packing : 13" reel, machine-ready ,embossed plastic tape (2,000 parts per full reel).