

SDC7D28MN SERIES

SMD Shielded Power Inductors



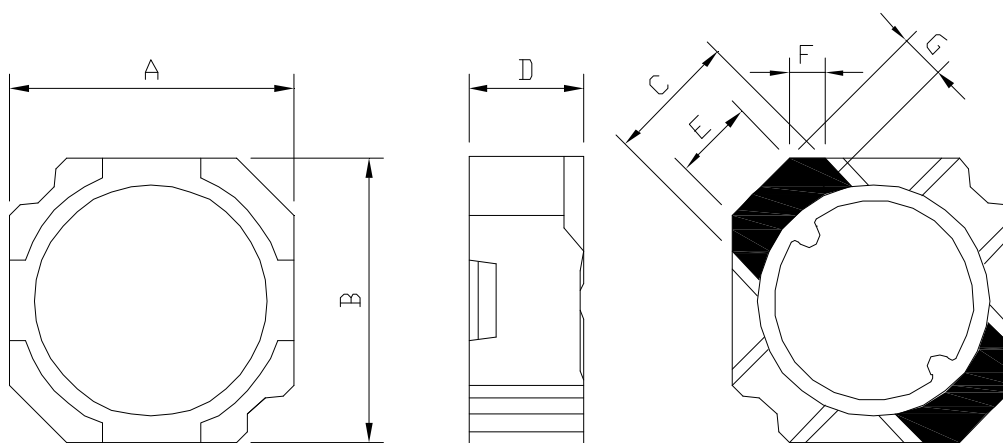
RoHS Compliant

PART NUMBERING SYSTEM

<u>SDC</u>	<u>7D28MN</u>	—	<u>6 R 8 N</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

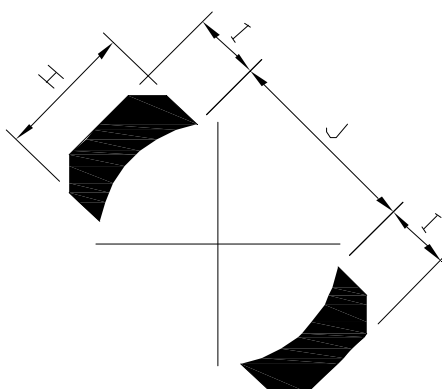
UNIT : mm



A=7.6 Max. B=7.6 Max. C=3.5 Ref. D=3.0 Max. E=1.7 Ref. F=1.3 Ref. G=1.3 Ref.

RECOMMENDED PATTERNS

UNIT : mm



H=4.0 Ref. I=2.7 Ref. J=4.2 Ref.

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A)	Irms (A)	TEST FREQ. (f)
SDC7D28MN-1R2N-LF	3.0 $\pm$ 30%	20.5	5.90	4.50	100KHz
SDC7D28MN-2R0N-LF	2.0 $\pm$ 30%	23.8	4.55	3.95	100KHz
SDC7D28MN-2R7N-LF	2.7 $\pm$ 30%	27.5	4.10	3.70	100KHz
SDC7D28MN-3R6N-LF	3.6 $\pm$ 30%	32.5	3.55	3.45	100KHz
SDC7D28MN-4R6N-LF	4.6 $\pm$ 30%	37.5	3.30	3.20	100KHz
SDC7D28MN-6R8N-LF	6.8 $\pm$ 30%	46.3	2.90	2.75	100KHz
SDC7D28MN-8R0N-LF	8.0 $\pm$ 30%	50.0	2.60	2.60	100KHz
SDC7D28MN-100P-LF	10 $\pm$ 25%	53.8	2.40	2.50	100KHz
SDC7D28MN-150P-LF	15 $\pm$ 25%	81.3	2.10	2.20	100KHz
SDC7D28MN-220P-LF	22 $\pm$ 25%	120	1.65	1.60	100KHz
SDC7D28MN-330P-LF	33 $\pm$ 25%	196	1.35	1.20	100KHz
SDC7D28MN-470P-LF	47 $\pm$ 25%	275	1.05	1.00	100KHz
SDC7D28MN-680P-LF	68 $\pm$ 25%	425	0.90	0.78	100KHz
SDC7D28MN-101P-LF	100 $\pm$ 25%	655	0.75	0.65	100KHz
SDC7D28MN-151P-LF	120 $\pm$ 25%	950	0.60	0.52	100KHz
SDC7D28MN-221P-LF	220 $\pm$ 25%	1320	0.50	0.40	100KHz
SDC7D28MN-331P-LF	330 $\pm$ 25%	2180	0.35	0.31	100KHz
SDC7D28MN-471P-LF	470 $\pm$ 25%	2650	0.30	0.28	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°C)
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.
- Packing : 13" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel).