

SDR1307K SERIES – SMD POWER INDUCTORS



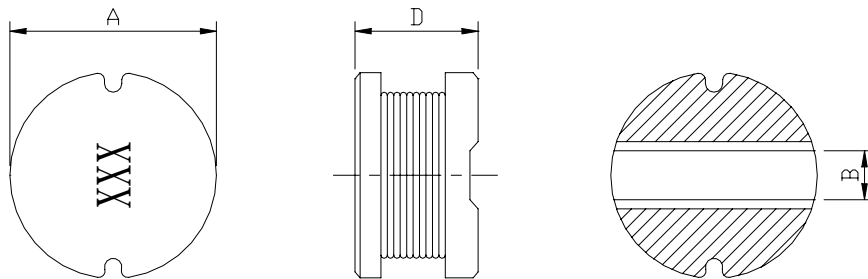
RoHS Compliant

PART NUMBERING SYSTEM

SDR	1 3 0 7 K	—	6 8 0 K	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

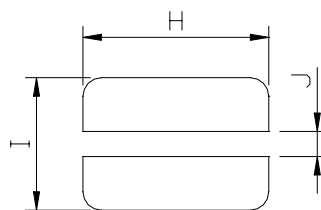
UNIT : mm



A=13.3 Max. B=5.0 Typ. D=7.30 Max.

RECOMMENDED PATTERNS

UNIT : mm



H=14.0 Max. I=14.0 Max. J=4.5 Ref.

FEATURES

- ⊙ Available for lead free and RoHS compliant
- ⊙ Excellent solder ability and high heat resistance
- ⊙ Inductance value from 1.5uH to 1,000uH
- ⊙ Excellent terminal strength constructions
- ⊙ Diameter of only 13.3mm maximum and low profile of 7.3mm max.

APPLICATION

- ⊙ Input / output of DC/DC converters
- ⊙ Power supplies for LCD TVs , Car radios , Camcorders , Portable communication equipment

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Q (Ref.)	DCR (m Ω) (Max.)	IDC (A) (Max.)	TEST FREQ. (KHz)
SDR1307K-1R5M-LF	1.5 $\pm$ 20%	20	5.0	20.00	100
SDR1307K-2R2M-LF	2.2 $\pm$ 20%	22	6.0	18.00	100
SDR1307K-2R7M-LF	2.7 $\pm$ 20%	24	8.0	16.00	100
SDR1307K-3R3M-LF	3.3 $\pm$ 20%	26	8.7	15.00	100
SDR1307K-4R7M-LF	4.7 $\pm$ 20%	25	10.0	13.00	100
SDR1307K-5R6M-LF	5.6 $\pm$ 20%	24	15.0	11.00	100
SDR1307K-6R8M-LF	6.8 $\pm$ 20%	24	17.0	10.50	100
SDR1307K-8R2M-LF	8.2 $\pm$ 20%	24	19.0	9.80	100
SDR1307K-100M-LF	10 $\pm$ 20%	22	21.0	9.20	100
SDR1307K-120M-LF	12 $\pm$ 20%	25	30.0	8.00	100
SDR1307K-150M-LF	15 $\pm$ 20%	28	34.0	7.50	100
SDR1307K-180M-LF	18 $\pm$ 20%	28	36.0	7.00	100
SDR1307K-220M-LF	22 $\pm$ 20%	40	47.0	6.50	100
SDR1307K-270K-LF	27 $\pm$ 10%	35	60.0	5.50	100
SDR1307K-330K-LF	33 $\pm$ 10%	35	65.0	5.00	100
SDR1307K-390K-LF	39 $\pm$ 10%	28	75.0	4.60	100
SDR1307K-470K-LF	47 $\pm$ 10%	24	82.0	4.20	100
SDR1307K-560K-LF	56 $\pm$ 10%	22	100.0	3.80	100
SDR1307K-680K-LF	68 $\pm$ 10%	24	120.0	3.50	100
SDR1307K-820K-LF	82 $\pm$ 10%	18	140.0	3.20	100
SDR1307K-101K-LF	100 $\pm$ 10%	25	180.0	3.00	100
SDR1307K-121K-LF	120 $\pm$ 10%	20	210.0	2.80	100
SDR1307K-151K-LF	150 $\pm$ 10%	20	250.0	2.60	100
SDR1307K-181K-LF	180 $\pm$ 10%	18	280.0	2.30	100
SDR1307K-221K-LF	220 $\pm$ 10%	15	360.0	2.10	100
SDR1307K-271K-LF	270 $\pm$ 10%	15	410.0	1.80	100
SDR1307K-331K-LF	330 $\pm$ 10%	15	520.0	1.60	100
SDR1307K-391K-LF	390 $\pm$ 10%	12	600.0	1.50	100
SDR1307K-471K-LF	470 $\pm$ 10%	12	720.0	1.40	100
SDR1307K-561K-LF	560 $\pm$ 10%	10	880.0	1.30	100
SDR1307K-681K-LF	680 $\pm$ 10%	10	1000.0	1.20	100
SDR1307K-821K-LF	820 $\pm$ 10%	10	1300.0	1.10	100
SDR1307K-102K-LF	1000 $\pm$ 10%	10	1600.0	1.00	100

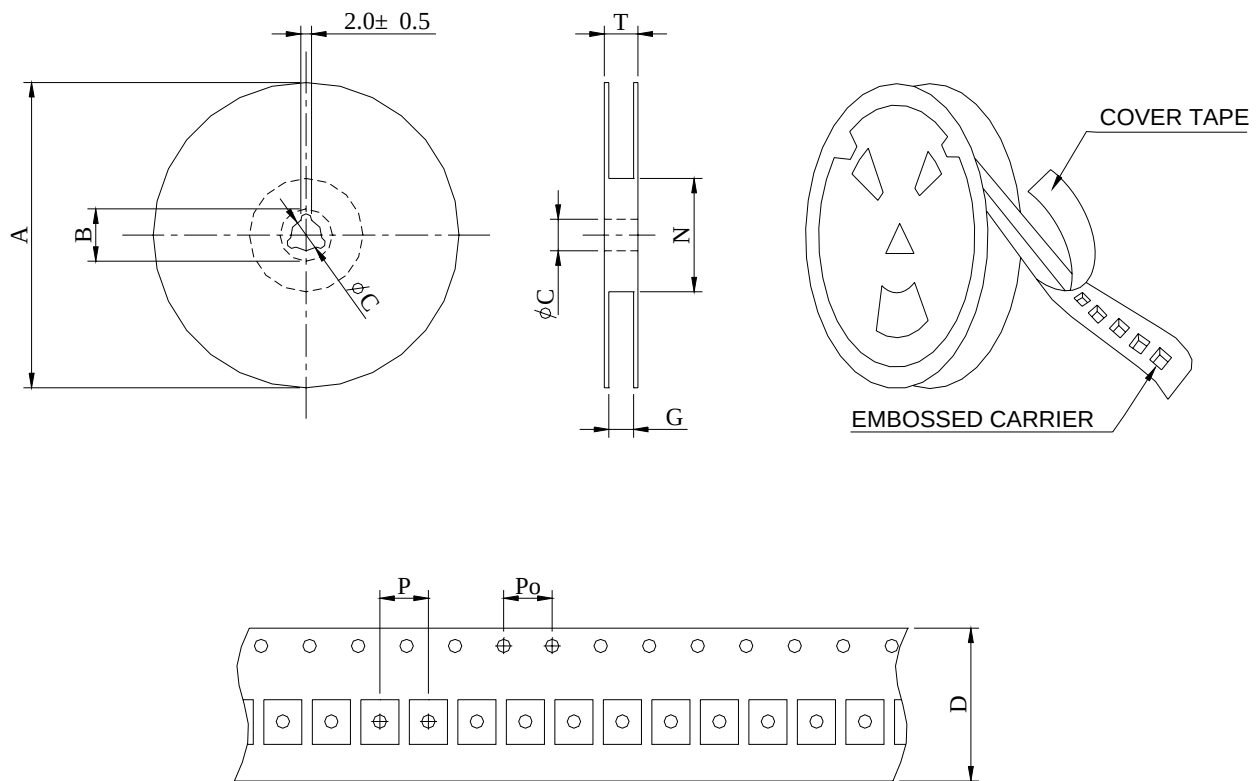
- DC current at which the inductance drops 10% (typ) from its value without current.
- Operating temperature range -40°C to +125°C ,
- Electrical specifications at 25°C .

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PACKAGING SPECIFICATION

RoHS Compliant



SERIES	Q' TY (PCS)	DIMENSIONS (m/m)								
		A	B±0.8	C±0.5	D	G ^{±0}	N ⁰	P	Po	T
SDR1307K	250	330	21	13	24	26	50	12	4	30.4