



SDB312F SERIES ~ LOW PROFILE Power Inductors

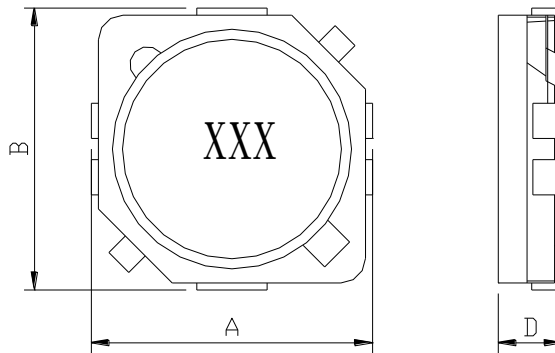


PART NUMBERING SYSTEM

SDB	3 1 2 F	—	6 R 8 M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

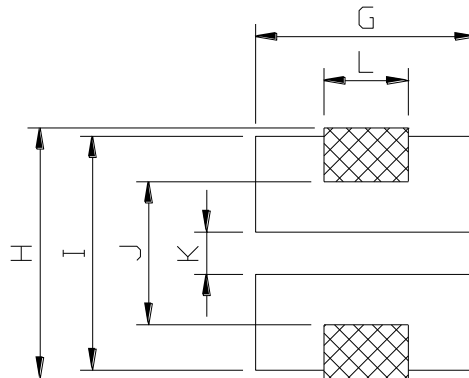
UNIT : mm



A=3.8 Max. B=3.8 Max. D=1.2 Max.

RECOMMENDED PATTERNS

UNIT : mm



G=3.6 H=4.2 I=3.6 J=2.0 K=0.5 L=1.4



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SPECIFICATION TABLE

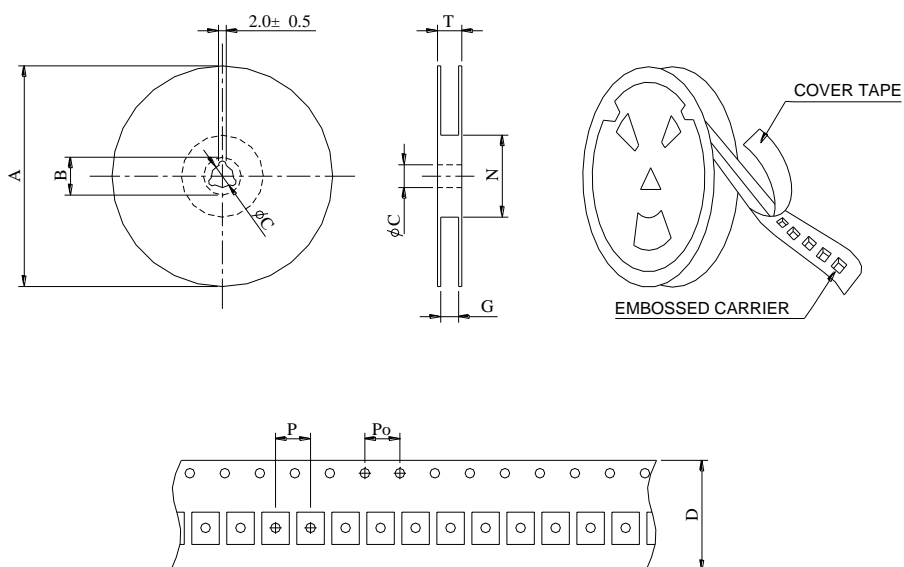
PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (max)	Isat (A) (max)	Irms (A) (max)	TEST FREQ. (f)
SDB312F-1R0N-LF	1.0 \pm 30%	100	1.77	1.57	100KHz
SDB312F-1R5M-LF	1.5 \pm 20%	120	1.29	1.18	100KHz
SDB312F-2R2M-LF	2.2 \pm 20%	140	1.14	1.06	100KHz
SDB312F-2R7M-LF	2.7 \pm 20%	180	0.98	0.97	100KHz
SDB312F-3R3M-LF	3.3 \pm 20%	200	0.90	0.95	100KHz
SDB312F-3R9M-LF	3.9 \pm 20%	230	0.83	0.92	100KHz
SDB312F-4R7M-LF	4.7 \pm 20%	240	0.79	0.88	100KHz
SDB312F-6R8M-LF	6.8 \pm 20%	310	0.68	0.85	100KHz
SDB312F-8R2M-LF	8.2 \pm 20%	430	0.62	0.67	100KHz
SDB312F-100M-LF	10.0 \pm 20%	480	0.56	0.64	100KHz
SDB312F-120M-LF	12.0 \pm 20%	660	0.50	0.51	100KHz
SDB312F-150M-LF	15.0 \pm 20%	800	0.45	0.50	100KHz
SDB312F-220M-LF	22.0 \pm 20%	1140	0.38	0.39	100KHz
SDB312F-270M-LF	27.0 \pm 20%	1370	0.33	0.38	100KHz
SDB312F-330M-LF	33.0 \pm 20%	1470	0.32	0.37	100KHz
SDB312F-390M-LF	39.0 \pm 20%	1770	0.29	0.36	100KHz
SDB312F-470M-LF	47.0 \pm 20%	2140	0.26	0.33	100KHz
SDB312F-680M-LF	68.0 \pm 20%	3330	0.21	0.25	100KHz

- Inductance measured at 100 kHz, 0.1 Vrms using a Coilcraft SMD fixture in an Agilent/HP 4284A or equivalent.
- Isat: DC current at which the inductance drops 30% (typ) from its value without current.
- Irms: Temperature Rise current at 40°C max. (Δ t) from +25°C ambient.
- Storage and ambient operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C.

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PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B±0.8	C±0.5	D	G ⁺⁰	N ⁰	P	Po	T
SDB312F	13-16	2000	330	21	13	16	18	50	8	4	22.4