



High efficiency shielded power inductors ~ SDS127H SERIES

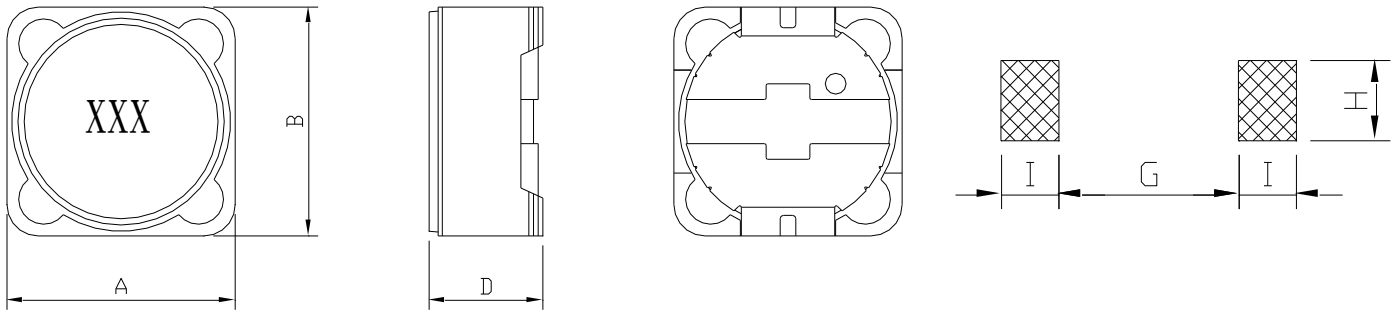


PART NUMBERING SYSTEM

SDS	127H	—	101M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



A=12.5 Max. B=12.5 Max. D=8.0 Max. G=7.0 H=5.4 I=2.9 UNIT : mm

Product features

- Shielded drum core inductors
- Inductance range from 0.47 μ H to 10,000 μ H
- Current range up to 56.0 A peak
- Magnetically shielded construction
- Ferrite core material
- Automotive grade / customized specification available

Applications

- Portable and handheld devices
- LCD panels
- DC-DC converters
- Buck, boost, forward, and resonant converters
- Noise filtering and filter chokes
- Desktop and servers
- Other electric instrument need higher efficiency



High efficiency shielded power inductors ~ SDS127H SERIES

SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SDS127H-R47M-LF	0.47 \pm 20%	2.800	40.0	17.9	100KHz
SDS127H-1R0M-LF	1.00 \pm 20%	4.070	40.0	15.5	100KHz
SDS127H-1R5M-LF	1.50 \pm 20%	4.263	31.1	13.5	100KHz
SDS127H-2R2M-LF	2.20 \pm 20%	5.025	25.5	12.5	100KHz
SDS127H-3R3M-LF	3.30 \pm 20%	9.800	17.0	10.5	100KHz
SDS127H-4R7M-LF	4.70 \pm 20%	11.463	16.5	8.25	100KHz
SDS127H-6R8M-LF	6.80 \pm 20%	14.500	13.3	7.34	100KHz
SDS127H-8R2M-LF	8.20 \pm 20%	15.700	12.2	6.32	100KHz
SDS127H-100M-LF	10.0 \pm 20%	21.500	11.2	6.04	100KHz
SDS127H-150M-LF	15.0 \pm 20%	30.875	9.66	5.03	100KHz
SDS127H-180M-LF	18.0 \pm 20%	38.600	8.76	4.58	100KHz
SDS127H-220M-LF	22.0 \pm 20%	52.00	7.57	4.00	100KHz
SDS127H-330M-LF	33.0 \pm 20%	75.00	6.22	3.23	100KHz
SDS127H-390M-LF	39.0 \pm 20%	85.00	6.28	3.00	100KHz
SDS127H-470M-LF	47.0 \pm 20%	86.28	5.28	2.95	100KHz
SDS127H-560M-LF	56.0 \pm 20%	108.0	4.90	2.73	100KHz
SDS127H-680M-LF	68.0 \pm 20%	137.00	4.44	2.44	100KHz
SDS127H-820M-LF	82.0 \pm 20%	178.75	4.06	2.09	100KHz
SDS127H-101M-LF	100 \pm 20%	204.00	3.64	1.96	100KHz
SDS127H-151M-LF	150 \pm 20%	308.75	3.01	1.59	100KHz
SDS127H-171M-LF	180 \pm 20%	378.00	2.76	1.46	100KHz
SDS127H-221M-LF	220 \pm 20%	470.00	2.43	1.29	100KHz
SDS127H-271M-LF	270 \pm 20%	582.50	2.24	1.17	100KHz
SDS127H-331M-LF	330 \pm 20%	717.50	2.01	1.02	100KHz
SDS127H-391M-LF	390 \pm 20%	871.6	1.87	0.96	100KHz
SDS127H-471M-LF	470 \pm 20%	1076.25	1.68	0.85	100KHz
SDS127H-561M-LF	560 \pm 20%	960.00	1.15	0.80	100KHz
SDS127H-681M-LF	680 \pm 20%	1350.0	1.39	0.76	100KHz
SDS127H-821M-LF	820 \pm 20%	1837.5	1.27	0.65	100KHz



SPECIFICATION TABLE

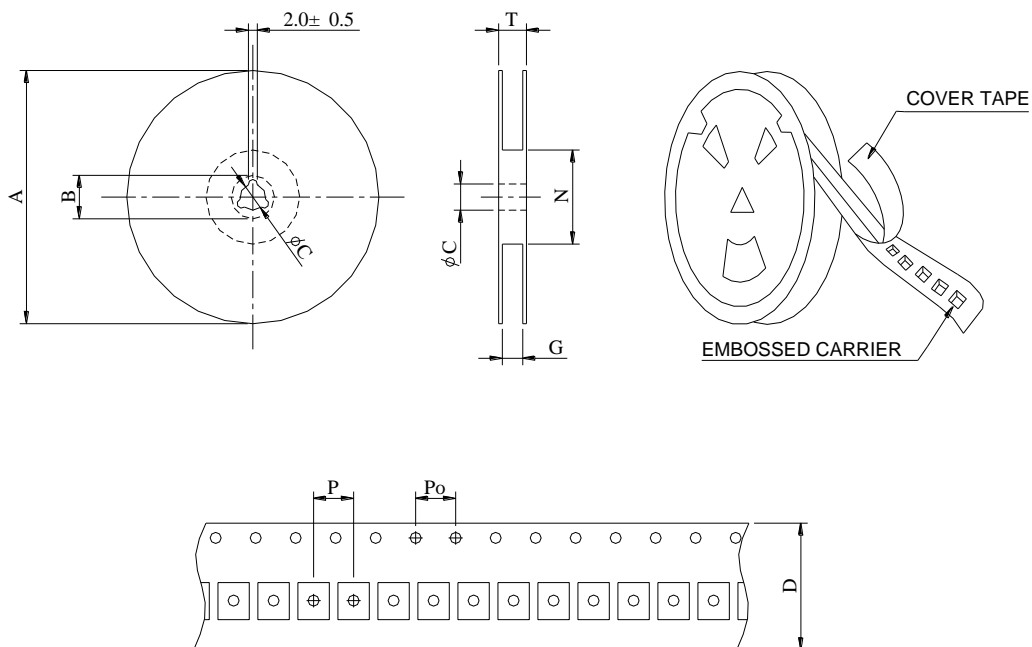
PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) (Max.)	Irms (A) (Max.)	TEST FREQ. (f)
SDS127H-102M-LF	1000 \pm 20%	2075.0	1.14	0.61	100KHz
SDS127H-152M-LF	1500 \pm 20%	2350.0	0.55	0.36	100KHz
SDS127H-182M-LF	1800 \pm 20%	3800.0	0.48	0.46	100KHz
SDS127H-222M-LF	2200 \pm 20%	4200.0	0.42	0.40	100KHz
SDS127H-272M-LF	2700 \pm 20%	5200.0	0.38	0.35	100KHz
SDS127H-302M-LF	3000 \pm 20%	11300.0	0.25	-	100KHz
SDS127H-103M-LF	10000 \pm 20%	16500.0	0.06	-	100KHz

- Isat current at which the inductance drops 30% (typ.) from its value without current.
- Iirms current for an approximate delta T of 40 °C without core loss
- Operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C .

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature.

Part temperature should be verified in the end application.

PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B \pm 0.8	C \pm 0.5	D	G ⁺	N ⁰	P	Po	T
SDS127H	13-24	400	330	21	13	24	26	50	16	4	30.4