



## SDS127LD SERIES ~ Shielded SMD Power Inductors

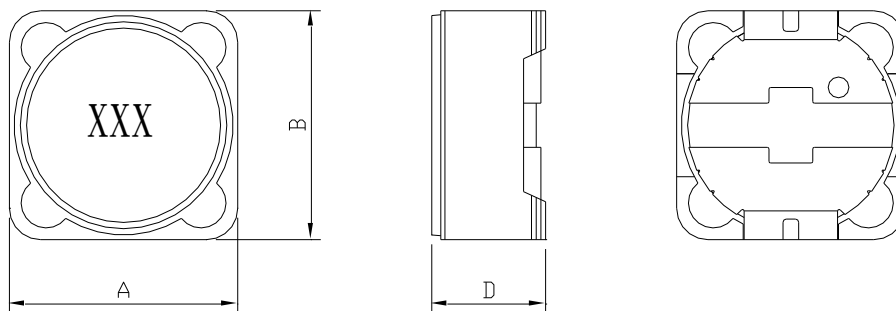


**PART NUMBERING SYSTEM (PLATING / SOLDER : TIN-SILVER-COPPER (95.5%/4.0%/0.5%))**

<b>SDS</b>	<b>127LD</b>	—	<b>100M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

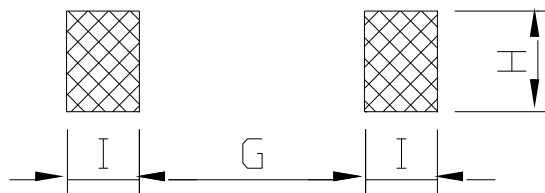
UNIT : mm



**A=12.3 Max. B=12.3 Max. D=8.0 Max.**

### RECOMMENDED PATTERNS

UNIT : mm



**G=7.0 H=5.4 I=2.9**



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (max)	IDC (A) (max)	TEST FREQ. ( f )
SDS127LD-1R0N-LF	1.0 $\pm$ 30%	0.0065	14.0	100KHz
SDS127LD-2R4N-LF	2.4 $\pm$ 30%	0.0105	10.3	100KHz
SDS127LD-3R5N-LF	3.5 $\pm$ 30%	0.0124	9.30	100KHz
SDS127LD-4R6N-LF	4.6 $\pm$ 30%	0.0138	9.10	100KHz
SDS127LD-5R8N-LF	5.8 $\pm$ 30%	0.0162	8.60	100KHz
SDS127LD-7R4N-LF	7.4 $\pm$ 30%	0.0177	7.40	100KHz
SDS127LD-100M-LF	10 $\pm$ 20%	0.0195	6.70	1KHz
SDS127LD-120M-LF	12 $\pm$ 20%	0.0213	6.45	1KHz
SDS127LD-150M-LF	15 $\pm$ 20%	0.0264	5.65	1KHz
SDS127LD-180M-LF	18 $\pm$ 20%	0.0280	5.10	1KHz
SDS127LD-220M-LF	22 $\pm$ 20%	0.0364	4.70	1KHz
SDS127LD-270M-LF	27 $\pm$ 20%	0.0416	4.20	1KHz
SDS127LD-330M-LF	33 $\pm$ 20%	0.0533	3.90	1KHz
SDS127LD-390M-LF	39 $\pm$ 20%	0.0605	3.50	1KHz
SDS127LD-470M-LF	47 $\pm$ 20%	0.0780	3.25	1KHz
SDS127LD-560M-LF	56 $\pm$ 20%	0.0900	2.90	1KHz
SDS127LD-680M-LF	68 $\pm$ 20%	0.1200	2.60	1KHz
SDS127LD-820M-LF	82 $\pm$ 20%	0.1190	2.40	1KHz
SDS127LD-101M-LF	100 $\pm$ 20%	0.1510	2.10	1KHz
SDS127LD-121M-LF	120 $\pm$ 20%	0.1690	1.90	1KHz
SDS127LD-151M-LF	150 $\pm$ 20%	0.2270	1.80	1KHz
SDS127LD-181M-LF	180 $\pm$ 20%	0.2990	1.55	1KHz
SDS127LD-221M-LF	220 $\pm$ 20%	0.3380	1.45	1KHz
SDS127LD-271M-LF	270 $\pm$ 20%	0.4190	1.30	1KHz
SDS127LD-331M-LF	330 $\pm$ 20%	0.4710	1.20	1KHz

- Operating temperature range -40°C to +125°C. ( Electrical specifications at 25°C )



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### SMD Shielded Power Inductor

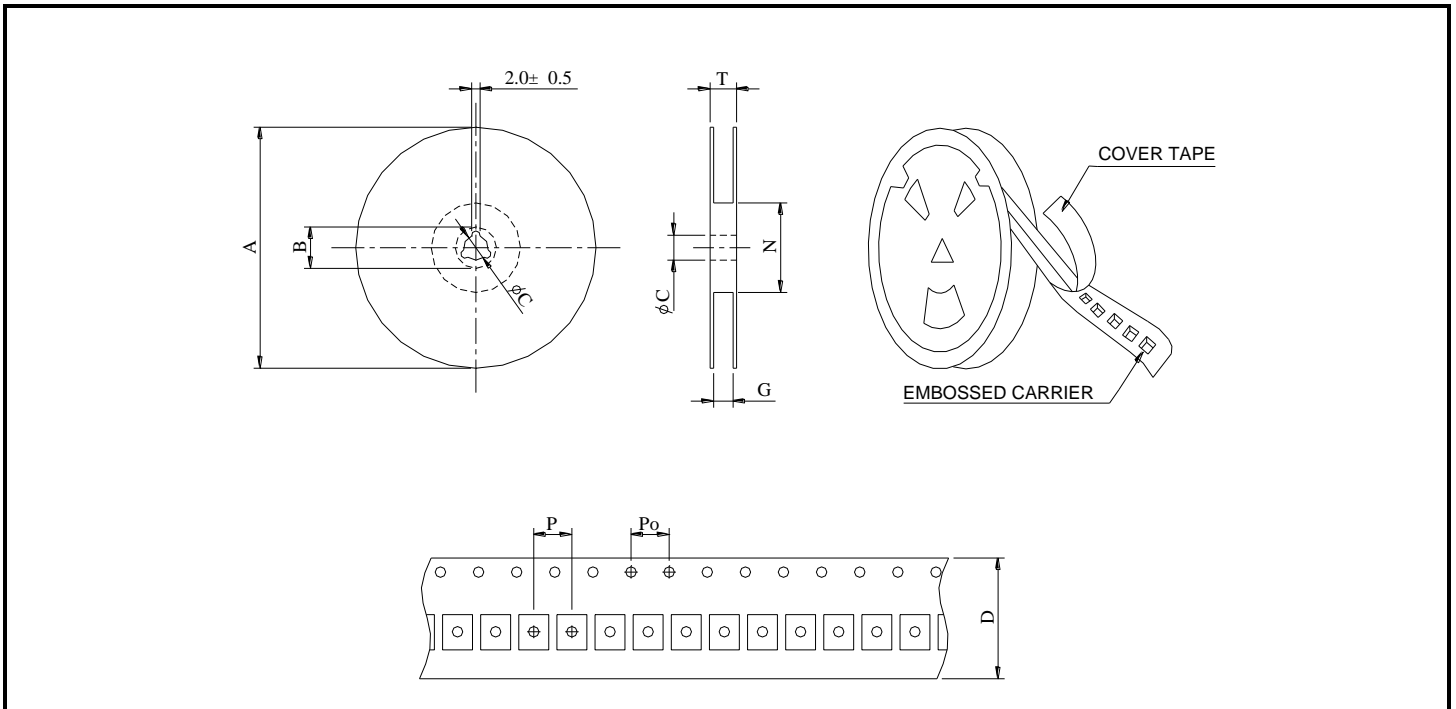


RoHS Compliant

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $\Omega$ ) (max)	IDC (A) (max)	TEST FREQ. (f)
SDS127LD-391M-LF	390 $\pm$ 20%	0.5720	1.10	1KHz
SDS127LD-471M-LF	470 $\pm$ 20%	0.7410	1.00	1KHz
SDS127LD-561M-LF	560 $\pm$ 20%	0.8520	0.95	1KHz
SDS127LD-681M-LF	680 $\pm$ 20%	1.1300	0.85	1KHz
SDS127LD-821M-LF	820 $\pm$ 20%	1.2400	0.75	1KHz
SDS127LD-102M-LF	1000 $\pm$ 20%	1.5000	0.70	1KHz

- Operating temperature range -40°C to +125°C. ( Electrical specifications at 25°C )

### PACKAGING SPECIFICATION



SERIES	STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)								
			A	B $\pm$ 0.8	C $\pm$ 0.5	D	G <sup>+0</sup>	N <sup>0</sup>	P	Po	T
SDS127LD	13-24	400	330	21	13	24	26	50	16	4	30.4