

SDS0603S SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

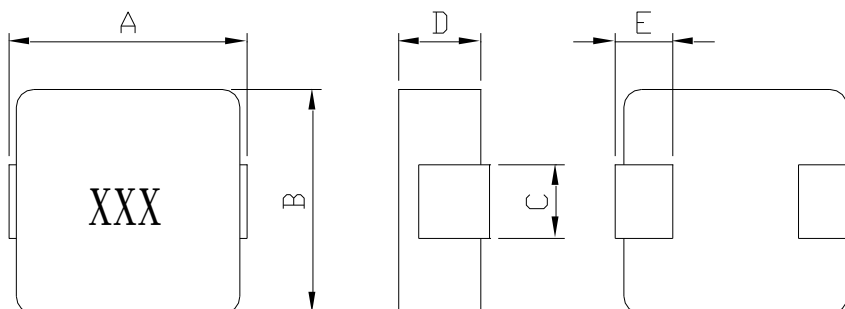
SEP	0603S	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.00mm max. height) and 7.4 mm max. square.
- Magnetically shielded and low DC resistance.
- Suitable for large current.
- Ideal for DC – DC converter inductor application in hand help personal Computer, etc.
- Frequency range up to 5MHZ.
- Large current handling capability.

SHAPES AND DIMENSIONS:

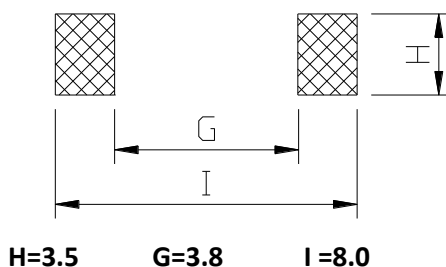
UNIT : mm



A=7.4 Max. B=6.8 Max. C=3.0±0.3 D=3.0 Max. E=1.27±0.3

RECOMMENDED PATTERNS:

UNIT : mm



H=3.5 G=3.8 I=8.0



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SPECIFICATION TABLE

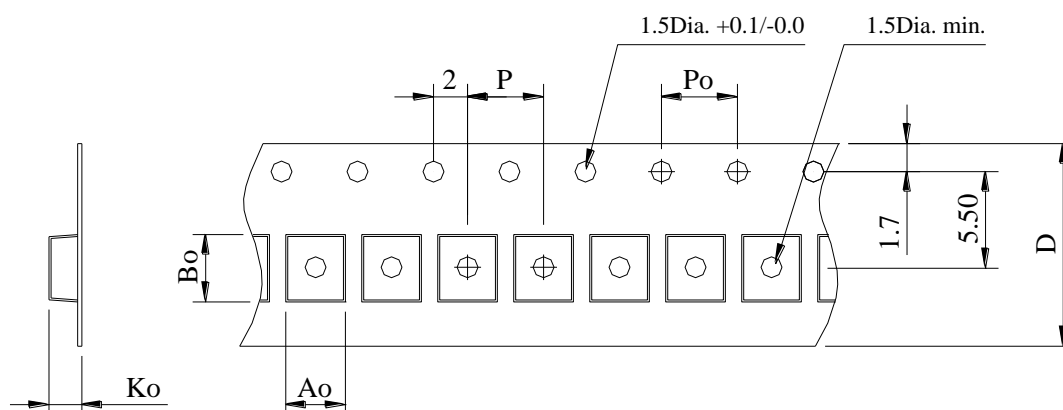
PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Min.)	Irms (A) (Min.)	DCR (m Ω) (Max.)	TEST FREQ. (f)
SEP0603S-R22M-LF	0.22 \pm 20%	32.0	18.0	2.8	100KHz/0.1V
SEP0603S-R33M-LF	0.33 \pm 20%	27.2	15.5	4.0	100KHz/0.1V
SEP0603S-R47M-LF	0.47 \pm 20%	24.1	14.5	4.2	100KHz/0.1V
SEP0603S-R56M-LF	0.56 \pm 20%	23.0	13.0	5.2	100KHz/0.1V
SEP0603S-R68M-LF	0.68 \pm 20%	22.5	12.6	5.6	100KHz/0.1V
SEP0603S-R82M-LF	0.82 \pm 20%	20.0	10.0	7.9	100KHz/0.1V
SEP0603S-1R0M-LF	1.0 \pm 20%	18.0	9.0	9.8	100KHz/0.1V
SEP0603S-1R5M-LF	1.5 \pm 20%	17.2	8.5	14.5	100KHz/0.1V
SEP0603S-2R2M-LF	2.2 \pm 20%	14.5	7.5	19.0	100KHz/0.1V
SEP0603S-3R3M-LF	3.3 \pm 20%	11.8	5.6	28.0	100KHz/0.1V
SEP0603S-4R7M-LF	4.7 \pm 20%	7.8	4.7	41.0	100KHz/0.1V
SEP0603S-5R6M-LF	5.6 \pm 20%	7.0	4.5	55.0	100KHz/0.1V
SEP0603S-6R8M-LF	6.8 \pm 20%	6.5	4.3	65.0	100KHz/0.1V
SEP0603S-8R2M-LF	8.2 \pm 20%	6.0	4.0	69.0	100KHz/0.1V
SEP0603S-100M-LF	10 \pm 20%	5.5	2.8	106.0	100KHz/0.1V
SEP0603S-150M-LF	15 \pm 20%	4.5	2.0	145.0	100KHz/0.1V

- Isat : DC current at which the inductance drops 20% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C.

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PACKAGING SPECIFICATION



STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)					
		A_o	B_o	K_o	P	P_o	$D \pm 0.3$
13"	1,000	7.2	7.0	3.4	12	4.0	16



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