



SDS0603E SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

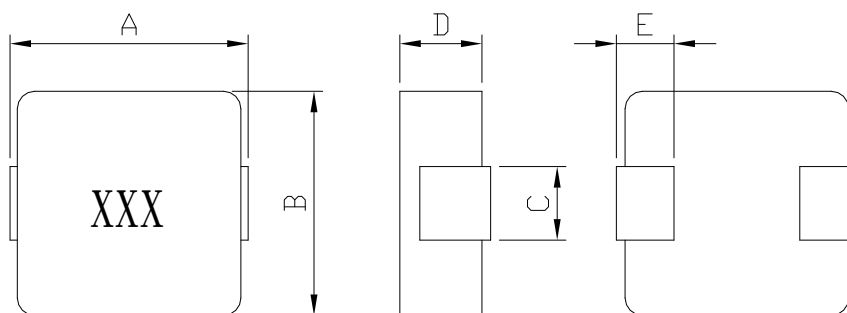
SEP	0603E	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 7.5 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:

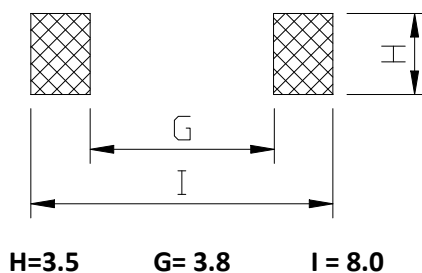
UNIT : mm



A=7.5 Max B=6.8 Max. C=3.0±0.3 D=3.0 Max. E=1.6±0.3

RECOMMENDED PATTERNS:

UNIT : mm



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Min.)	Irms (A) (Min.)	DCR (m Ω) (Max.)	TEST FREQ. (f)
SEP0603E-R10M-LF	0.10 \pm 20%	60.0	32.5	1.7	100KHz/0.1V
SEP0603E-R15M-LF	0.15 \pm 20%	45.0	26.0	2.5	100KHz/0.1V
SEP0603E-R20M-LF	0.20 \pm 20%	41.0	24.0	3.0	100KHz/0.1V
SEP0603E-R22M-LF	0.22 \pm 20%	40.0	23.0	2.8	100KHz/0.1V
SEP0603E-R33M-LF	0.33 \pm 20%	30.0	20.0	3.9	100KHz/0.1V
SEP0603E-R47M-LF	0.47 \pm 20%	26.0	17.5	4.2	100KHz/0.1V
SEP0603E-R68M-LF	0.68 \pm 20%	25.0	15.5	5.5	100KHz/0.1V
SEP0603E-R82M-LF	0.82 \pm 20%	24.0	13.0	8.0	100KHz/0.1V
SEP0603E-1R0M-LF	1.0 \pm 20%	22.0	11.0	10.0	100KHz/0.1V
SEP0603E-1R5M-LF	1.5 \pm 20%	18.0	9.0	15.0	100KHz/0.1V
SEP0603E-2R2M-LF	2.2 \pm 20%	14.0	8.0	20.0	100KHz/0.1V
SEP0603E-3R3M-LF	3.3 \pm 20%	13.5	6.0	30.0	100KHz/0.1V
SEP0603E-4R7M-LF	4.7 \pm 20%	10.0	5.5	40.0	100KHz/0.1V
SEP0603E-6R8M-LF	6.8 \pm 20%	8.0	4.5	60.0	100KHz/0.1V
SEP0603E-8R2M-LF	8.2 \pm 20%	7.5	4.0	68.0	100KHz/0.1V
SEP0603E-100M-LF	10 \pm 20%	7.0	3.0	105.0	100KHz/0.1V

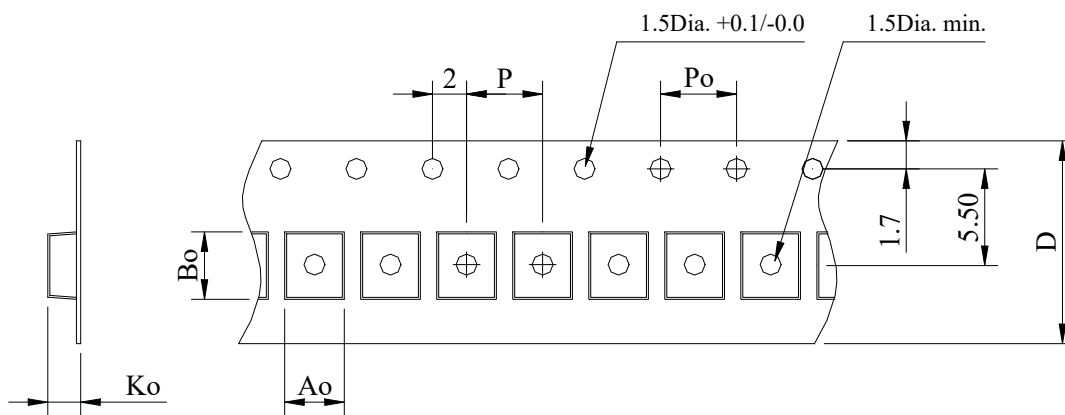
- All test Data is referenced to 25 $^{\circ}$ C ambient.
- Typical Heat Rating DC Current would cause an approximately Δ T of 40 $^{\circ}$ C.
- Typical Saturation DC Current would cause Lo to drop approximately 30%
- Operating Temperature Range: -25 $^{\circ}$ C ~ +125 $^{\circ}$ C.



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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