



SDS0603ELD SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

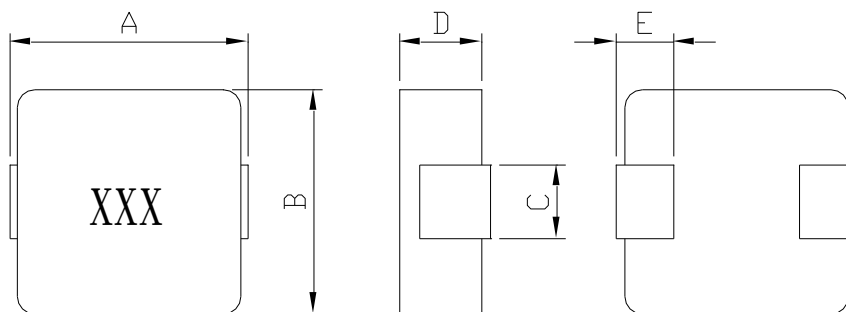
SEP	0603ELD	—	R33M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 7.5 mm max. square.
- Magnetically shielded and low DC resistance.
- Suitable for large current and low DC resistance .
- Ultra low buzz noise, due to composite construction .
- Ideal for DC – DC converter inductor application in hand help personal Computer, etc.
- Frequency range up to 1MHZ.
- Large current handling capability.

SHAPES AND DIMENSIONS:

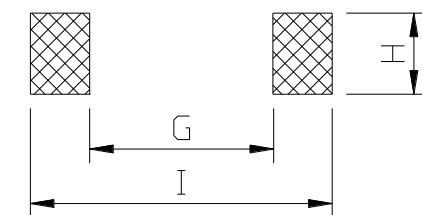
UNIT : mm



A=7.5 Max B=6.9 Max. C=3.0±0.3 D=3.0 Max. E=1.6±0.5

RECOMMENDED PATTERNS:

UNIT : mm



H=3.5 G= 3.7 I = 8.4



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Min.)	Irms (A) (Min.)	DCR (m Ω) (Max.)	DCR (m Ω) (Typ.)	TEST FREQ. (f)
SEP0603ELD-R10M-LF	0.10 \pm 20%	60.0	32.5	1.70	1.50	100KHz/1V
SEP0603ELD-R15M-LF	0.15 \pm 20%	35.0	32.5	1.70	1.50	100KHz/1V
SEP0603ELD-R20M-LF	0.20 \pm 20%	30.0	32.5	1.70	1.50	100KHz/1V
SEP0603ELD-R22M-LF	0.22 \pm 20%	29.0	28.0	2.60	2.10	100KHz/1V
SEP0603ELD-R33M-LF	0.33 \pm 20%	23.0	23.0	3.00	2.50	100KHz/1V
SEP0603ELD-R36M-LF	0.36 \pm 20%	22.0	22.0	3.00	2.60	100KHz/1V
SEP0603ELD-R47M-LF	0.47 \pm 20%	18.0	20.0	4.00	3.20	100KHz/1V
SEP0603ELD-R56M-LF	0.56 \pm 20%	17.0	18.0	4.20	3.60	100KHz/1V
SEP0603ELD-R68M-LF	0.68 \pm 20%	15.0	17.0	4.40	3.70	100KHz/1V
SEP0603ELD-R82M-LF	0.82 \pm 20%	14.0	17.0	4.50	3.80	100KHz/1V
SEP0603ELD-1R0M-LF	1.0 \pm 20%	13.0	14.0	6.00	5.40	100KHz/1V
SEP0603ELD-1R5M-LF	1.5 \pm 20%	11.0	13.0	8.00	7.20	100KHz/1V
SEP0603ELD-2R2M-LF	2.2 \pm 20%	10.0	11.0	12.0	10.0	100KHz/1V
SEP0603ELD-3R3M-LF	3.3 \pm 20%	8.00	9.00	15.4	14.5	100KHz/1V
SEP0603ELD-4R7M-LF	4.7 \pm 20%	6.00	7.00	26.0	24.5	100KHz/1V
SEP0603ELD-5R6M-LF	5.6 \pm 20%	5.50	6.00	28.0	26.5	100KHz/1V
SEP0603ELD-6R8M-LF	6.8 \pm 20%	5.00	5.50	42.0	39.0	100KHz/1V
SEP0603ELD-8R2M-LF	8.2 \pm 20%	5.00	5.00	52.0	48.0	100KHz/1V
SEP0603ELD-100M-LF	10 \pm 20%	5.00	5.00	62.0	56.0	100KHz/1V
SEP0603ELD-120M-LF	12 \pm 20%	3.50	3.50	88.0	80.0	100KHz/1V
SEP0603ELD-150M-LF	15 \pm 20%	3.00	3.00	106.0	96.0	100KHz/1V
SEP0603ELD-220M-LF	22 \pm 20%	2.50	2.50	135.0	128.9	100KHz/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: -55 $^{\circ}$ C ~ +125 $^{\circ}$ C .
- Reel Qty 1,000pcs