



SEP0503E SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

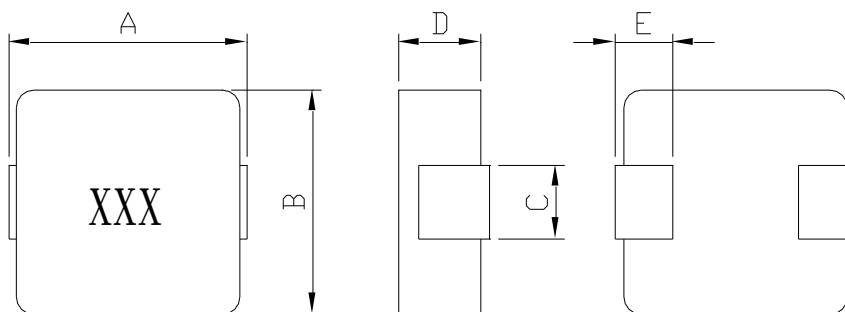
SEP	0503E	—	1R5M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and 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 :

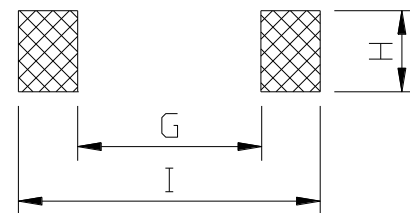
UNIT : mm



A=5.75 Max. B=5.45 Max. C=2.5±0.3 D=3.0 Max. E=1.0±0.3

RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.2 I = 6.0

SEP0503E SERIES ~ High Current Power Inductors



SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Typ.)	I _{rms} (A) (Typ.)	DCR (m Ω) (Max.)	TEST FREQ. (f)
SEP0503E-R15M-LF	0.15 \pm 20%	14.5	14.6	3.4	100KHz/0.1V
SEP0503E-R22M-LF	0.22 \pm 20%	11.3	13.3	4.4	100KHz/0.1V
SEP0503E-R33M-LF	0.33 \pm 20%	9.60	12.6	5.6	100KHz/0.1V
SEP0503E-R47M-LF	0.47 \pm 20%	8.20	11.4	6.5	100KHz/0.1V
SEP0503E-1R0M-LF	1.0 \pm 20%	7.50	8.80	13.1	100KHz/0.1V
SEP0503E-1R5M-LF	1.5 \pm 20%	6.30	6.75	18.5	100KHz/0.1V
SEP0503E-1R8M-LF	1.8 \pm 20%	6.00	6.50	21.8	100KHz/0.1V
SEP0503E-2R2M-LF	2.2 \pm 20%	5.60	6.30	24.0	100KHz/0.1V
SEP0503E-3R3M-LF	3.3 \pm 20%	4.90	4.85	38.5	100KHz/0.1V
SEP0503E-4R7M-LF	4.7 \pm 20%	4.40	4.00	63.2	100KHz/0.1V
SEP0503E-6R8M-LF	6.8 \pm 20%	2.60	3.20	103.3	100KHz/0.1V
SEP0503E-8R2M-LF	8.2 \pm 20%	2.30	3.10	112.7	100KHz/0.1V
SEP0503E-100M-LF	10 \pm 20%	2.10	2.89	122.0	100KHz/0.1V

- I_{sat} : 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 +120°C , Electrical specifications at 25°C.