

SEP0502EC SERIES

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

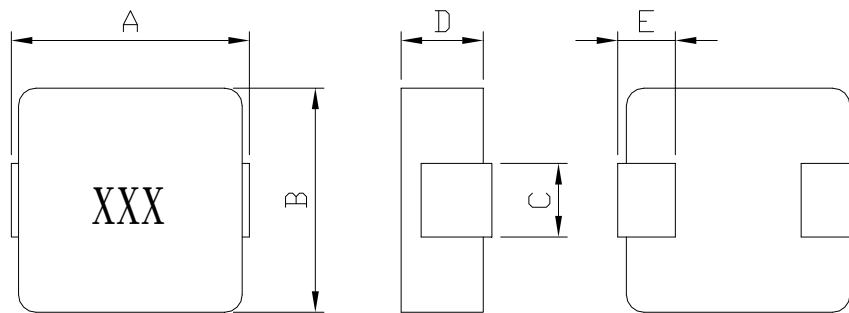
<u>SEP</u>	<u>0502EC</u>	—	<u>100M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (2.0mm max. height) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Handles high transient current spikes without saturation .
- Frequency range up to 1.0 MHz .
- Large current handling capability .

SHAPES AND DIMENSIONS :

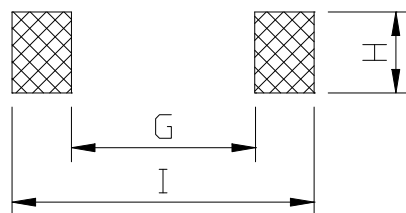
UNIT : mm



A=5.75 Max. B=5.45 Max. C=2.5±0.3 D=2.0 Max. E=1.0±0.3

RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.16 I = 6.0

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP0502EC-R10M-LF	0.10 $\pm$ 20%	25.0	21.0	2.70	2.90
SEP0502EC-R22M-LF	0.22 $\pm$ 20%	13.0	17.0	4.10	4.50
SEP0502EC-R33M-LF	0.33 $\pm$ 20%	7.50	13.0	5.50	5.90
SEP0502EC-R47M-LF	0.47 $\pm$ 20%	8.00	12.5	7.10	7.70
SEP0502EC-1R0M-LF	1.0 $\pm$ 20%	7.00	7.50	16.8	18.1
SEP0502EC-2R2M-LF	2.2 $\pm$ 20%	5.50	5.00	34.9	37.7
SEP0502EC-3R3M-LF	3.3 $\pm$ 20%	4.70	4.10	53.5	57.8
SEP0502EC-4R7M-LF	4.7 $\pm$ 20%	3.00	3.20	75.3	81.3
SEP0502EC-5R6M-LF	5.6 $\pm$ 20%	2.20	3.00	85.2	92.0
SEP0502EC-100M-LF	10 $\pm$ 20%	2.00	2.20	169.3	182.8

- 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.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C .