

SEP0503EC SERIES

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

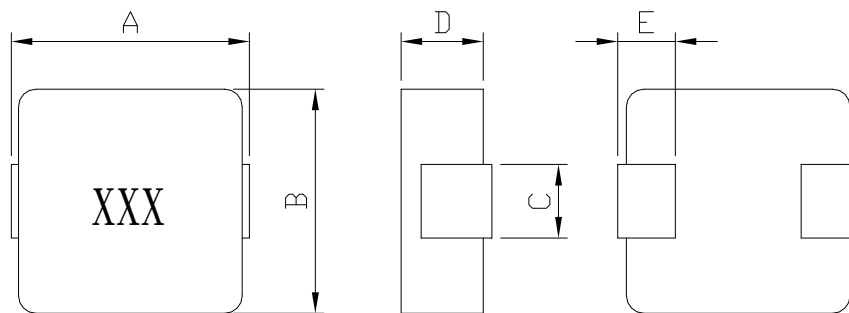
<u>SEP</u>	<u>0503EC</u>	—	<u>4R7M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Ultra low buzz noise, due to composite construction .
- Ideal for DC – DC converter inductor application in hand held personal Computer ,etc .
- Frequency range up to 1MHZ .
- Large current handling capability .

SHAPES AND DIMENSIONS :

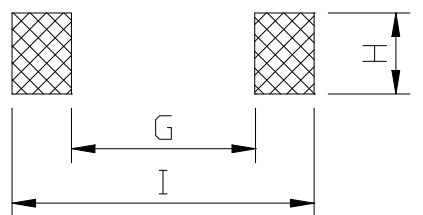
UNIT : mm



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

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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.)
SEP0503EC-R10M-LF	0.10 $\pm$ 20%	25.0	21.0	2.60	2.90
SEP0503EC-R22M-LF	0.22 $\pm$ 20%	14.5	21.0	3.50	3.90
SEP0503EC-R33M-LF	0.33 $\pm$ 20%	9.00	16.5	4.50	5.00
SEP0503EC-R47M-LF	0.47 $\pm$ 20%	9.00	14.0	5.40	6.00
SEP0503EC-1R0M-LF	1.0 $\pm$ 20%	6.50	10.0	10.0	11.0
SEP0503EC-1R5M-LF	1.5 $\pm$ 20%	7.00	7.50	17.1	18.5
SEP0503EC-2R2M-LF	2.2 $\pm$ 20%	5.50	6.75	22.5	25.0
SEP0503EC-3R3M-LF	3.3 $\pm$ 20%	7.00	5.50	36.4	40.4
SEP0503EC-4R7M-LF	4.7 $\pm$ 20%	5.20	4.50	54.0	60.0
SEP0503EC-5R6M-LF	6.8 $\pm$ 20%	3.50	4.25	63.0	70.6
SEP0503EC-100M-LF	10 $\pm$ 20%	2.25	2.75	122.1	131.9
SEP0503EC-220M-LF	22 $\pm$ 20%	1.70	1.90	250.0	260.0

- 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 .