

## SEP0803EC SERIES~ High Current SMD Power Inductors



### PART NUMBERING SYSTEM

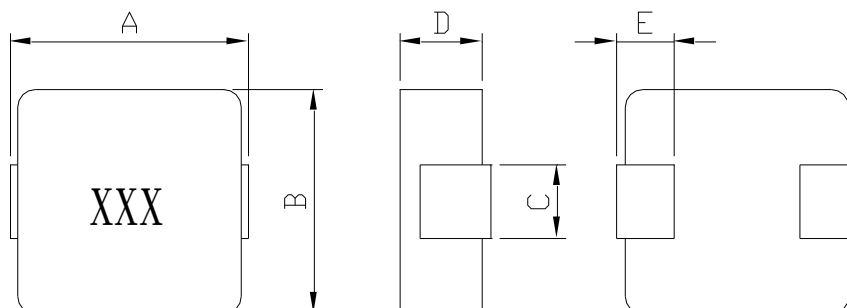
<b>SEP</b>	<b>0803EC</b>	—	<b>4R7M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Magnetically High Current Power Inductors .
- Low profile ( 3.0mm max. height ) with Halogen Free , 100% lead ( Pb) Free and RoHS compliant .
- Low acoustic noise and low leakage flux noise by shielded construction .

### SHAPES AND DIMENSIONS :

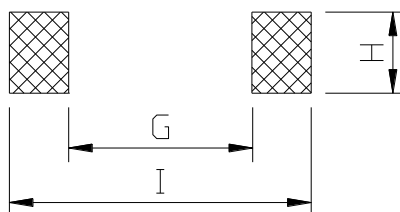
UNIT : mm



**A=9.7±0.5 B=8.50 Max. C=3.0±0.5 D=3.0 Max. E=1.5±0.5**

### RECOMMENDED PATTERNS

UNIT : mm



**H=5.33 Ref. G= 4.82 Ref. I = 9.65 Ref.**



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Max.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (m $\Omega$ ) (Max.)	TEST FREQ. ( f )
SEP0803EC-R22M-LF	0.22 $\pm$ 20%	24.0	36.0	1.62	100KHz/0.25V
SEP0803EC-R33M-LF	0.33 $\pm$ 20%	18.0	27.0	2.38	100KHz/0.25V
SEP0803EC-R47M-LF	0.47 $\pm$ 20%	18.0	24.0	2.72	100KHz/0.25V
SEP0803EC-R68M-LF	0.68 $\pm$ 20%	15.2	20.0	3.99	100KHz/0.25V
SEP0803EC-R82M-LF	0.82 $\pm$ 20%	15.0	18.5	4.87	100KHz/0.25V
SEP0803EC-1R0M-LF	1.0 $\pm$ 20%	14.8	16.0	4.49	100KHz/0.25V
SEP0803EC-1R5M-LF	1.5 $\pm$ 20%	11.3	12.5	9.94	100KHz/0.25V
SEP0803EC-2R2M-LF	2.2 $\pm$ 20%	10.4	10.4	14.7	100KHz/0.25V
SEP0803EC-4R7M-LF	4.7 $\pm$ 20%	5.40	7.60	28.6	100KHz/0.25V
SEP0803EC-6R8M-LF	6.8 $\pm$ 20%	5.00	6.50	37.8	100KHz/0.25V
SEP0803EC-8R2M-LF	8.2 $\pm$ 20%	4.20	5.90	46.7	100KHz/0.25V
SEP0803EC-100M-LF	10 $\pm$ 20%	3.80	5.30	55.1	100KHz/0.25V
SEP0803EC-150M-LF	15 $\pm$ 20%	3.80	4.30	85.3	100KHz/0.25V
SEP0803EC-220M-LF	22 $\pm$ 20%	2.80	3.60	132.0	100KHz/0.25V
SEP0803EC-330M-LF	33 $\pm$ 20%	2.10	3.10	177.0	100KHz/0.25V

- I<sub>sat</sub> : DC current at which the inductance drops 20% (Max.) from its value without current.
- I<sub>rms</sub> : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -40°C to +120°C , Electrical specifications at 25°C.
- Packing : Tape & Reel ( Reel Qty 1,000pcs )