

## SEP0512E SERIES ~ High Current Power Inductors



### PART NUMBERING SYSTEM

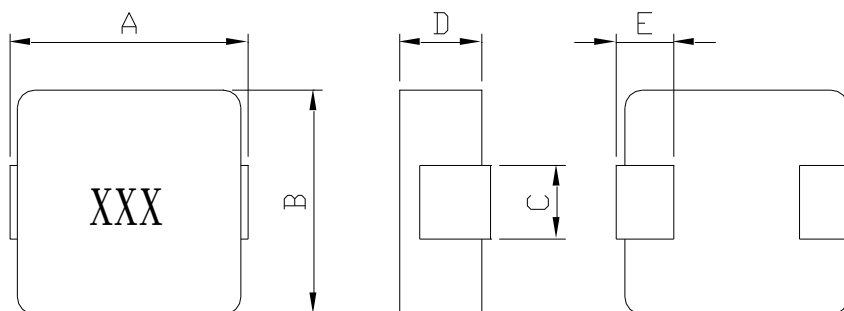
<b>SEP</b>	<b>0512E</b>	—	<b>1R0M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 1.2mm 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 help personal Computer ,etc .
- Frequency range up to 5MHZ .
- Large current handling capability .

### SHAPES AND DIMENSIONS :

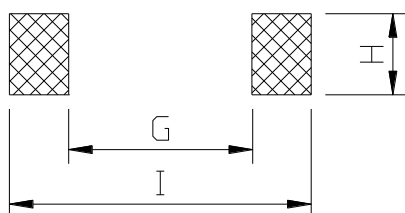
UNIT : mm



A=5.7±0.3 B=5.45 Max. C=2.3±0.3 D=1.2 Max. E=1.2±0.3

### RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.2 I = 6.2



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (m $\Omega$ ) (Typ.)	DCR (m $\Omega$ ) (Max.)
SEP0512E-R20M-LF	0.20 $\pm$ 20%	11.5	8.5	8.30	10.8
SEP0512E-R47M-LF	0.47 $\pm$ 20%	10.0	8.0	12.5	15.0
SEP0512E-R68M-LF	0.68 $\pm$ 20%	8.0	6.8	13.6	17.5
SEP0512E-1R0M-LF	1.0 $\pm$ 20%	6.5	5.5	22.0	28.0
SEP0512E-1R5M-LF	1.5 $\pm$ 20%	5.5	4.5	45.0	55.0
SEP0512E-2R2M-LF	2.2 $\pm$ 20%	4.5	4.0	62.0	75.0
SEP0512E-3R3M-LF	3.3 $\pm$ 20%	3.5	3.0	75.0	90.0
SEP0512E-4R7M-LF	4.7 $\pm$ 20%	2.6	2.2	145	180
SEP0512E-6R8M-LF	6.8 $\pm$ 20%	2.0	1.5	220	245
SEP0512E-100M-LF	10 $\pm$ 20%	1.8	1.2	195	330

- I<sub>sat</sub> : DC current at which the inductance drops 20% (typ) from its value without current.
- I<sub>rms</sub> : 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.