

## High Current Power Inductors - SEP0515E SERIES



### PART NUMBERING SYSTEM

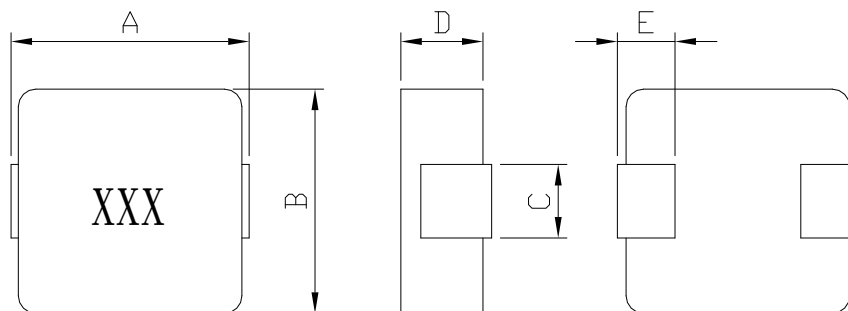
<b>SEP</b>	<b>0515E</b>	—	<b>6R8M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 1.5mm 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 :

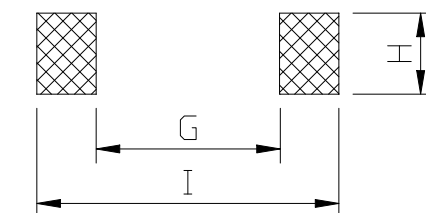
UNIT : mm



A=5.7±0.3 B=5.45 Max. C=2.5±0.3 D=1.5 Max. E=1.1±0.3

### RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.2 I = 6.2

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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP0515E-R33M-LF	0.33±20%	16.0	9.0	8.50	9.80
SEP0515E-R47M-LF	0.47±20%	15.0	8.0	12.0	13.8
SEP0515E-R68M-LF	0.68±20%	13.0	7.0	14.0	16.2
SEP0515E-1R0M-LF	1.0±20%	9.0	6.0	22.0	25.3
SEP0515E-1R5M-LF	1.5±20%	7.5	4.5	39.0	45.0
SEP0515E-2R2M-LF	2.2±20%	6.0	4.0	45.0	52.0
SEP0515E-3R3M-LF	3.3±20%	4.5	3.2	62.0	72.0
SEP0515E-4R7M-LF	4.7±20%	4.0	2.7	103	118
SEP0515E-5R6M-LF	5.6±20%	3.2	2.4	126	152
SEP0515E-6R8M-LF	6.8±20%	3.0	2.3	142	171
SEP0515E-8R2M-LF	8.2±20%	2.6	2.1	175	210
SEP0515E-100M-LF	10±20%	2.3	2.0	210	235

- Isat : DC current at which the inductance drops 20% (typ) from its value without current.
- Irms : 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.