



## SEP5050EX SERIES ~ High Current Power Inductors



### PART NUMBERING SYSTEM

<b>SEP</b>	<b>5050EX</b>	—	<b>150M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

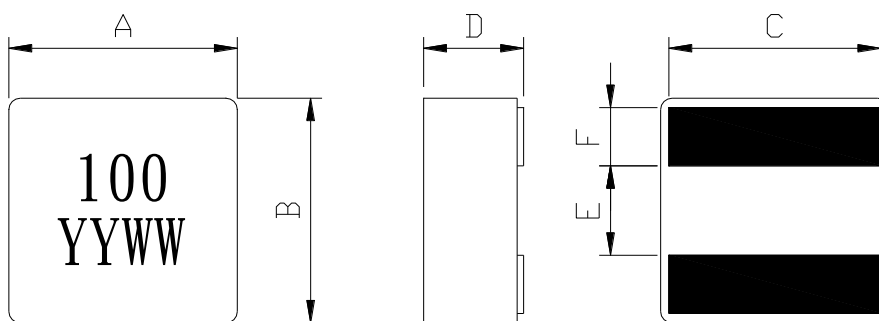
### MATERIAL LIST :



NO	Items	Materials
1	Core	Alloy powder.
2	Wire	Polyester Wire or equ
3	Solder	100% Pb free solder
4	Ink	Halogen-free ketone

### SHAPES AND DIMENSIONS :

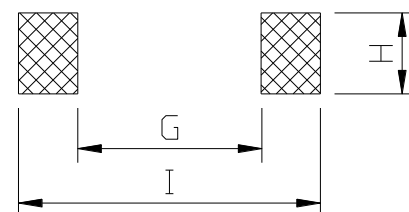
UNIT : mm



A=6.0±0.2 B=5.7±0.2 C=4.3±0.3 D=4.8±0.2 E=2.3±0.25 F= 1.1±0.2

### RECOMMENDED PATTERNS

UNIT : mm



H=4.7 G= 2.13 I = 4.49

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### FEATURES :

- Low profile ( 5.0mm max. height ) and 6.00 mm max. square.
- Excellent current handling – up to 31 A; Exceptionally low DCR – only 2.15 mOhms
- Inductance range: 5.6  $\mu$ H – 22  $\mu$ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation .

### 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.)
SEP5050EX-5R6M-LF	5.6 $\pm$ 20%	6.30	7.20	23.45	25.80
SEP5050EX-6R8M-LF	6.8 $\pm$ 20%	6.00	6.40	26.75	29.45
SEP5050EX-8R2M-LF	8.2 $\pm$ 20%	5.60	6.10	31.75	34.95
SEP5050EX-100M-LF	10.0 $\pm$ 20%	4.90	4.90	40.90	45.00
SEP5050EX-150M-LF	15.0 $\pm$ 20%	3.70	3.90	69.70	76.70
SEP5050EX-220M-LF	22.0 $\pm$ 20%	3.60	3.40	90.60	99.65

- I<sub>sat</sub> : DC current at which the inductance drops 30% (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 -40°C to +125°C , Electrical specifications at 25°C.
- Reel Qty 1,500pcs