

## SEP5030EX SERIES ~ High Current Power Inductors



### PART NUMBERING SYSTEM

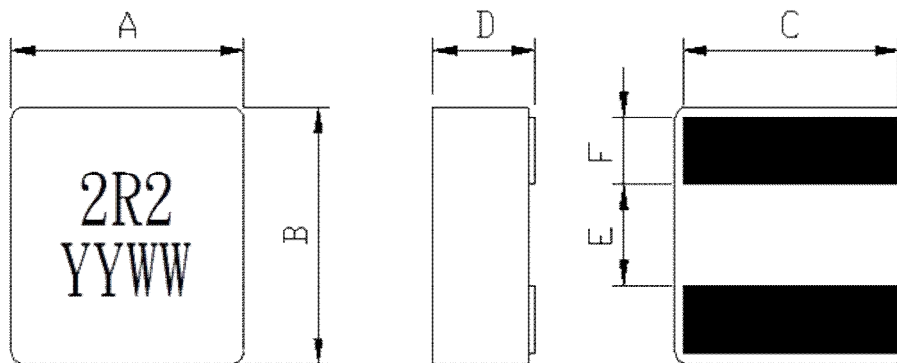
<b>SEP</b>	<b>5030EX</b>	—	<b>2R2M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 3.1mm max. height ) and 5.75 mm max. square.
- Excellent current handling – up to 31 A; Exceptionally low DCR – only 2.15 mOhms
- Inductance rage: 0.16  $\mu$ H – 22  $\mu$ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation .

### SHAPES AND DIMENSIONS :

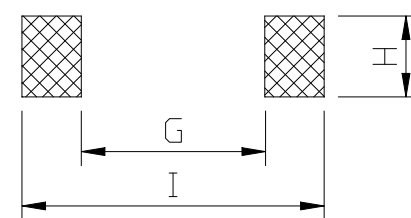
UNIT : mm



A=5.5 $\pm$ 0.2 B=5.3 $\pm$ 0.2 C=4.25 $\pm$ 0.3 D=2.9 $\pm$ 0.2 E=2.3 $\pm$ 0.25 F= 1.1 $\pm$ 0.2

### RECOMMENDED PATTERNS

UNIT : mm



H=4.7 G= 2.0 I = 4.5



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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.)
SEP5030EX-R16M-LF	0.16 $\pm$ 20%	31.0	14.2	2.15	2.36
SEP5030EX-R33M-LF	0.33 $\pm$ 20%	26.0	13.8	3.20	3.52
SEP5030EX-R60M-LF	0.60 $\pm$ 20%	19.8	13.6	4.11	4.52
SEP5030EX-R80M-LF	0.80 $\pm$ 20%	18.5	10.0	5.14	5.65
SEP5030EX-1R0M-LF	1.0 $\pm$ 20%	14.0	8.7	8.50	9.40
SEP5030EX-2R2M-LF	2.2 $\pm$ 20%	9.2	7.2	13.2	14.5
SEP5030EX-3R3M-LF	3.3 $\pm$ 20%	8.7	5.9	21.2	23.3
SEP5030EX-4R7M-LF	4.7 $\pm$ 20%	6.7	4.3	36.0	40.0

- 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 2,000pcs