



# SEP0603J SERIES

## High Current SMD Power Inductors



RoHS Compliant

### PART NUMBERING SYSTEM

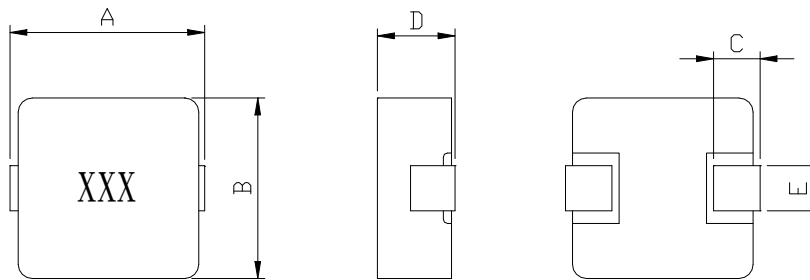
<u>SEP</u>	<u>0603J</u>	—	<u>1R0M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 3.00mm max. height ) and 7.6 mm max. square.
- Magnetically shielded and low DC resistance .
- Suitable for large current .
- Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .
- Large current handling capability .

### SHAPES AND DIMENSIONS :

UNIT : mm

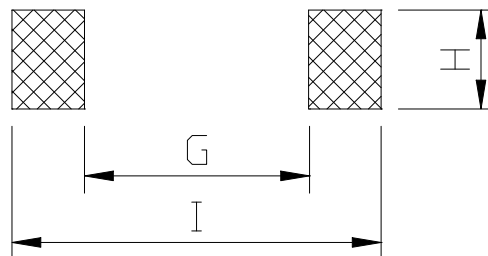


A=7.9 Max. B=6.9 Max. C=1.4 Ref. D=3.0 Max. E=※

※SEP0603J-R47 E=1.5 Ref. ; SEP0603J-R68 E=1.0 Ref. ; SEP0603J-1R0~4R7 E=2.0 Ref.

### RECOMMENDED PATTERNS

UNIT : mm



H=※ G= 4.2 I = 9.0

※SEP0603J-R47 H=2.5 Ref. ; SEP0603J-R68 H=2.0 Ref. ; SEP0603J-1R0~4R7 H=3.0 Ref.



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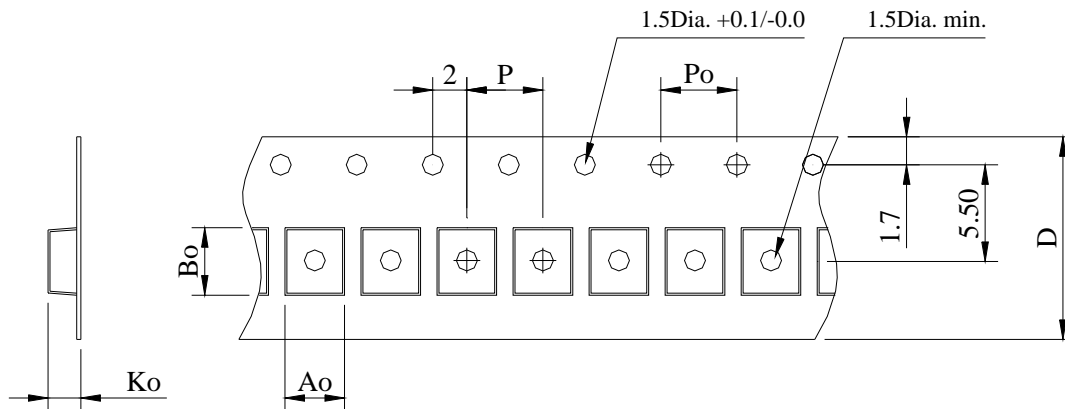
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#### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Max.)	I <sub>rms</sub> ( A ) (Max.)	DCR (m $\Omega$ ) (Max.)	TEST FREQ. ( f )
SEP0603J-R47M-LF	0.47 $\pm$ 20%	17.0	13.0	4.2	100KHz/0.1V
SEP0603J-R68M-LF	0.68 $\pm$ 20%	13.0	11.0	5.5	100KHz/0.1V
SEP0603J-1R0M-LF	1.0 $\pm$ 20%	11.0	8.0	10	100KHz/0.1V
SEP0603J-2R2M-LF	2.2 $\pm$ 20%	7.0	5.5	20	100KHz/0.1V
SEP0603J-3R3M-LF	3.3 $\pm$ 20%	5.5	4.5	30	100KHz/0.1V
SEP0603J-4R7M-LF	4.7 $\pm$ 20%	4.5	4.0	40	100KHz/0.1V

- I<sub>sat</sub> : DC current at which the inductance drops 20% (typ) from its value without current.
- Operating temperature range -30°C to +120°C .
- Electrical specifications at 20°C.

#### PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D $\pm$ 0.3
13"	1,000	7.2	7.0	3.4	12	4.0	16