

SEP0412E SERIES

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

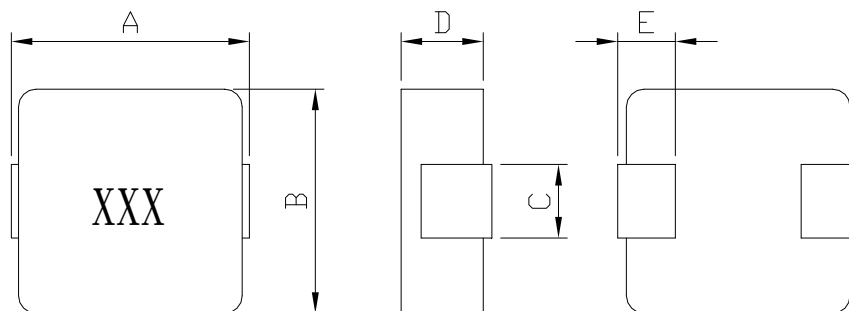
<u>SEP</u>	<u>0412E</u>	—	<u>1R0M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (1.2mm max. height) and 4.6 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 :

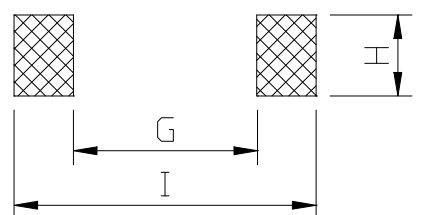
UNIT : mm



A=5.0 Max. B=4.4 Max. C=1.5±0.3 D=1.20 Max. E=1.0±0.5

RECOMMENDED PATTERNS

UNIT : mm



H=2.5 G= 2.2 I = 5.2

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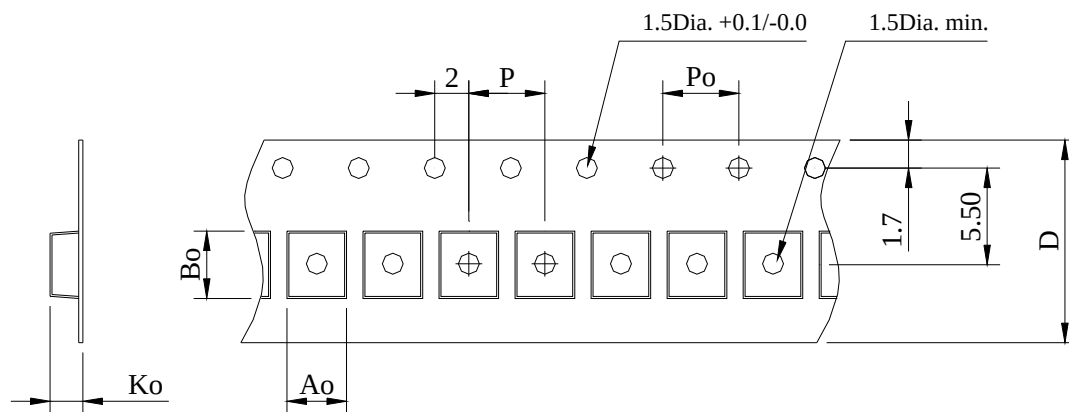
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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Max.)	TEST FREQ. (f)
SEP0412E-R22M-LF	0.22 $\pm$ 20%	11.5	8.50	12.0	100KHz/0.25V
SEP0412E-R47M-LF	0.47 $\pm$ 20%	7.00	5.00	25.0	100KHz/0.25V
SEP0412E-R68M-LF	0.68 $\pm$ 20%	6.00	4.50	36.0	100KHz/0.25V
SEP0412E-1R0M-LF	1.0 $\pm$ 20%	5.20	4.20	47.0	100KHz/0.25V
SEP0412E-2R2M-LF	2.2 $\pm$ 20%	3.50	2.75	83.5	100KHz/0.25V
SEP0412E-4R7M-LF	4.7 $\pm$ 20%	2.80	1.80	195	100KHz/0.25V

- Isat : DC current at which the inductance drops 30% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C.

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D $\pm$ 0.3
13"	2,000	4.6 $\pm$ 0.1	5.0 $\pm$ 0.1	1.5 $\pm$ 0.1	8	4.0	12