

SEP1207E SERIES ~

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

<u>SEP</u>	<u>1207E</u>	—	<u>1R8M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

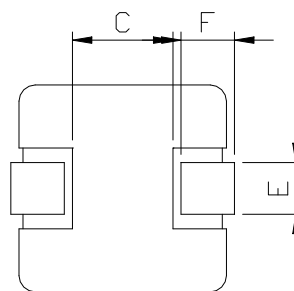
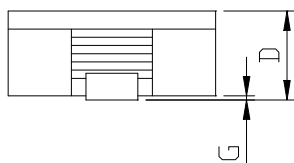
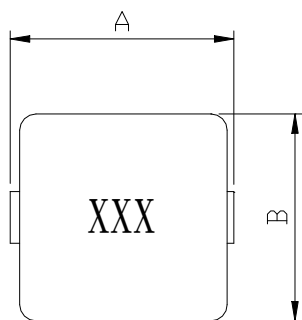
SHAPES AND DIMENSIONS :

UNIT : mm



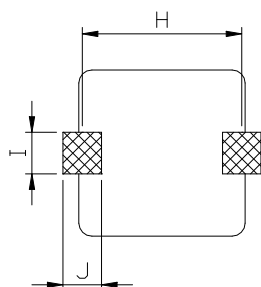
FEATURES :

- * Low profile.
- * Magnetically shielded low DC resistance .
- * Suitable for large current application.
- * Laptop & Notebook computers.
- * Battery powered equipment.
- * DC/DC converters.
- * Digital 、 Cameras 、 Scanners, CD-ROM & DVD.



A=12.8±0.7 B=12.8±0.5 C=5.0 Ref. D=7.50 Max. E=3.3±0.5 F=1.9±0.5 G=0.2 Max. UNIT : mm

RECOMMENDED PATTERNS



H= 10.0 I= 4.50 J= 4.50

UNIT : mm

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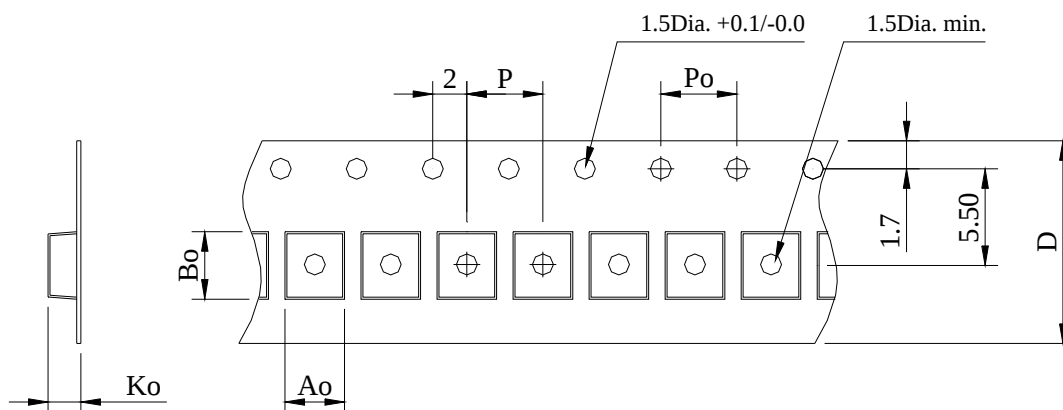
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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Max.)	I _{rms} (A) (Δ t) 40°C (Max.)	DCR (m Ω) (Max.)	Test Freq. (KHz)
SEP1207E-R50M-LF	0.50 $\pm$ 20%	45	40	1.00	100KHz/1V
SEP1207E-1R0M-LF	1.00 $\pm$ 20%	35	30	1.50	100KHz/1V
SEP1207E-1R5M-LF	1.50 $\pm$ 20%	28	23	2.50	100KHz/1V
SEP1207E-1R8M-LF	1.80 $\pm$ 20%	23	20	2.50	100KHz/1V

- Inductance measured at 100 kHz, 0.1 Vrms .
- I_{sat} : DC current at which the inductance drops 20% (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 20°C.

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D $\pm$ 0.3
13"	500	14.2	13.5	7.6	20	4.0	24