

SEP0807E SERIES ~

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

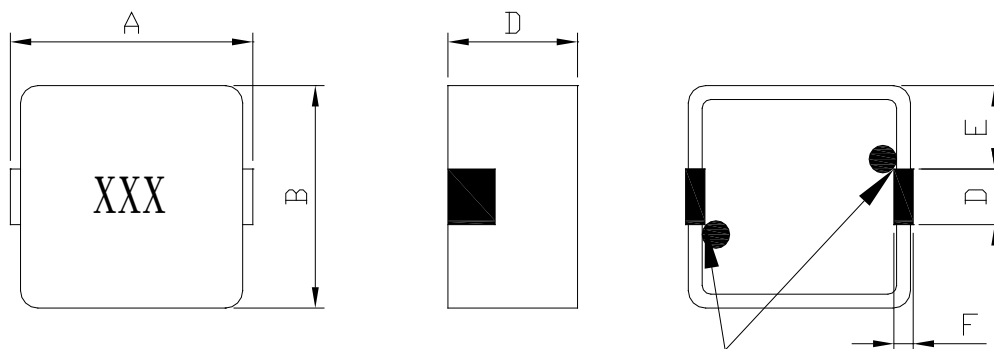
SEP	0807E	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Magnetically shielded construction
- 125°C maximum total temperature operation
- 10.9 x 10.0 x 9.3mm surface mount package
- Halogen free
- High current carrying capacity, low core losses
- Controlled DCR tolerance for sensing circuits
- Inductance range from 220nH to 1,000nH
- Application for DC/DC converter and PDA/notebook/desktop/server .

SHAPES AND DIMENSIONS :

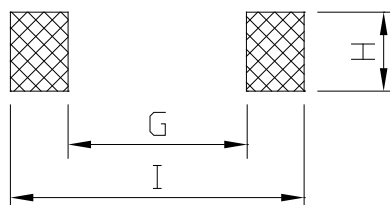
UNIT : mm



DCR is measured at the points

A=8.40±0.4 B=7.90±0.3 C=7.2±0.3 D=2.3±0.2 E=2.80 typ. F=1.5±0.2

RECOMMENDED PATTERNS



G=4.4 H= 3.0 I= 9.0

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Max.)	Fres (MHz)
SEP0807E-R33M-LF	0.33 $\pm$ 20%	36.0	20.5	1.40	272
SEP0807E-R47M-LF	0.47 $\pm$ 20%	32.0	19.0	1.72	232
SEP0807E-R68M-LF	0.68 $\pm$ 20%	23.5	17.0	1.72	181
SEP0807E-1R0M-LF	1.00 $\pm$ 20%	24.0	17.0	2.95	147
SEP0807E-1R5M-LF	1.50 $\pm$ 20%	18.5	16.5	4.40	120
SEP0807E-2R2M-LF	2.20 $\pm$ 20%	12.5	16.5	4.40	97
SEP0807E-3R3M-LF	3.30 $\pm$ 20%	8.50	14.0	6.50	81
SEP0807E-4R7M-LF	4.70 $\pm$ 20%	8.00	7.50	12.4	45
SEP0807E-6R8M-LF	6.80 $\pm$ 20%	7.50	5.50	22.2	37
SEP0807E-100M-LF	10.0 $\pm$ 20%	7.00	4.40	40.5	29

- Operating temperature range - 40 °C to + 125 °C
- Test Frequency at 100KHz/10mA .
- I sat : DC current (A) that will cause L0 to drop approximately 25 %
- I rms : DC current (A) that will cause an approximate Δ T of 40 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions.

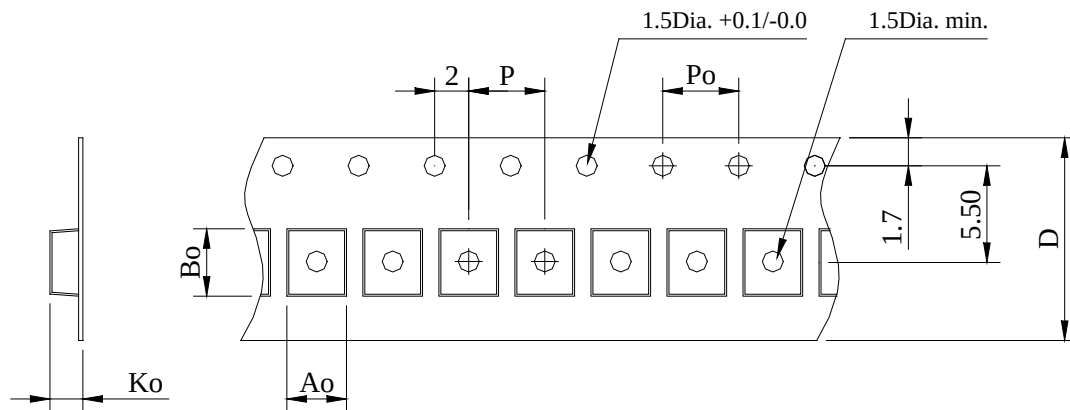
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PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	500	8.0±0.1	9.0±0.1	7.0±0.1	16	4.0	24