

SEP1210E SERIES ~

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

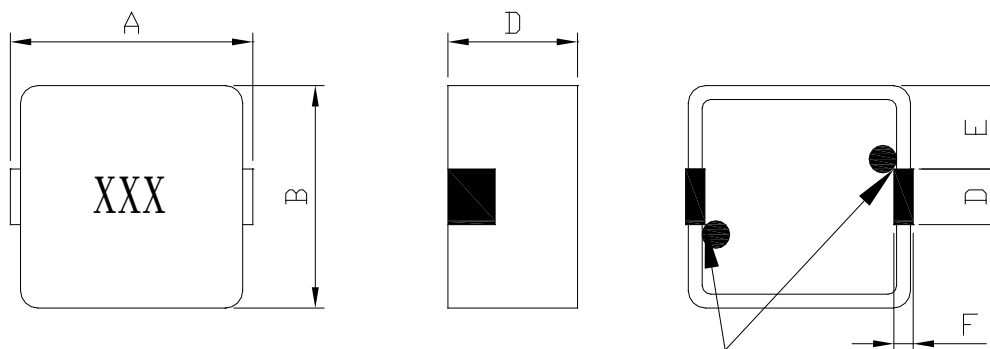
<u>SEP</u>	<u>1210E</u>	—	<u>1R0M</u>	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Magnetically shielded construction
- 125°C maximum total temperature operation
- 12.1 x 11.4 x 9.5mm 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 :

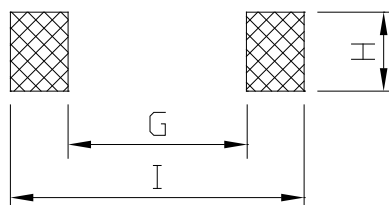
UNIT : mm



DCR is measured at the points

A=12.4 Max. B=11.7 Max. C=9.5±0.5 D=3.5±0.2 E=2.0±0.2 F=3.9±0.5

RECOMMENDED PATTERNS



G= 7.0 H= 5.4 I= 12.8

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Max.)	Test Freq. (KHz)
SEP1210E-R22M-LF	0.33 $\pm$ 20%	60.0	27.0	0.53	100KHz/10mA
SEP1210E-R33M-LF	0.47 $\pm$ 20%	55.0	27.0	0.53	100KHz/10mA
SEP1210E-R47M-LF	0.56 $\pm$ 20%	48.0	26.0	0.72	100KHz/10mA
SEP1210E-R68M-LF	0.82 $\pm$ 20%	38.0	26.0	0.72	100KHz/10mA
SEP1210E-R82M-LF	1.00 $\pm$ 20%	36.0	24.0	1.17	100KHz/10mA
SEP1210E-1R0M-LF	1.50 $\pm$ 20%	32.0	24.0	1.17	100KHz/10mA
SEP1210E-1R5M-LF	2.20 $\pm$ 20%	27.0	19.5	2.10	100KHz/10mA
SEP1210E-2R2M-LF	3.30 $\pm$ 20%	23.0	18.0	3.05	100KHz/10mA
SEP1210E-3R3M-LF	4.70 $\pm$ 20%	17.0	17.0	4.40	100KHz/10mA
SEP1210E-4R7M-LF	5.60 $\pm$ 20%	17.0	15.5	6.35	100KHz/10mA
SEP1210E-6R8M-LF	6.80 $\pm$ 20%	13.0	13.0	8.98	100KHz/10mA
SEP1210E-8R2M-LF	8.20 $\pm$ 20%	12.0	13.0	9.90	100KHz/10mA
SEP1201E-100M-LF	10.0 $\pm$ 20%	10.0	9.0	14.4	100khZ/10mA

- Operating temperature range - 40 °C to + 125 °C
- 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.

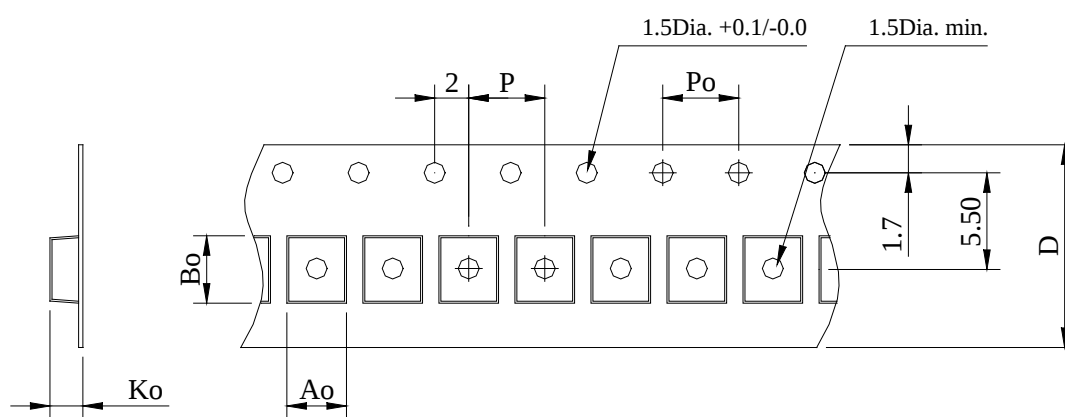
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PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	300	11.8	12.6	10.2	20	4.0	24