



## SEP1204E SERIES ~ High Current Power Inductors



### PART NUMBERING SYSTEM

<b>SEP</b>	<b>1204E</b>	—	<b>2R2M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

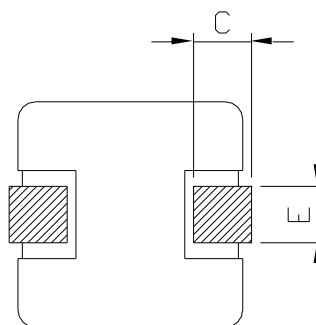
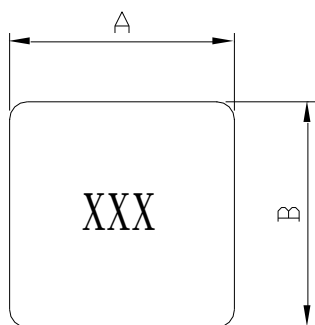
### SHAPES AND DIMENSIONS :

UNIT : mm



#### FEATURES :

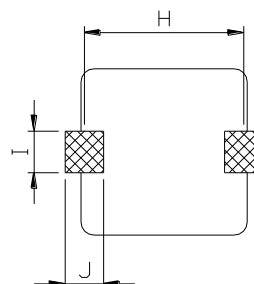
- \* Low profile.
- \* Magnetically shielded low DC resistance .
- \* Suitable for large current application.
- \* Laptop & Notebook computers.
- \* Battery powered equipment.
- \* DC/DC converters.
- \* Digital 、 Cameras 、 Scanners, CD-ROM & DVD.



A=13.5±1.0 B=12.8±0.5 C=2.5 Ref. D=4.0 Max. E=3.8 Ref.

### RECOMMENDED PATTERNS

H=10.25 I= 5.00 J= 4.25



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) ( $\Delta$ t) 40°C (Typ.)	DCR (m $\Omega$ ) (Max.)	DCR (m $\Omega$ ) (Typ.)	Test Freq. (KHz)
SEP1204E-R10M-LF	0.10 $\pm$ 20%	75	43	1.1	0.9	100KHz/1V
SEP1204E-R22M-LF	0.22 $\pm$ 20%	70	41	1.4	1.2	100KHz/1V
SEP1204E-R33M-LF	0.33 $\pm$ 20%	60	38	1.5	1.3	100KHz/1V
SEP1204E-R47M-LF	0.47 $\pm$ 20%	55	32	1.9	1.4	100KHz/1V
SEP1204E-R60M-LF	0.60 $\pm$ 20%	50	30	2.3	2.0	100KHz/1V
SEP1204E-R68M-LF	0.68 $\pm$ 20%	46	28	2.5	2.1	100KHz/1V
SEP1204E-R82M-LF	0.82 $\pm$ 20%	44	25	3.1	2.7	100KHz/1V
SEP1204E-0R9M-LF	0.90 $\pm$ 20%	40	24	3.5	3.0	100KHz/1V
SEP1204E-1R0M-LF	1.00 $\pm$ 20%	38	24	3.7	3.0	100KHz/1V
SEP1204E-1R2M-LF	1.20 $\pm$ 20%	25	20	3.7	3.0	100KHz/1V
SEP1204E-1R5M-LF	1.50 $\pm$ 20%	30	19	6.0	5.5	100KHz/1V
SEP1204E-1R8M-LF	1.80 $\pm$ 20%	26	16	7.6	6.4	100KHz/1V
SEP1204E-2R2M-LF	2.20 $\pm$ 20%	22	16	7.6	6.4	100KHz/1V
SEP1204E-3R3M-LF	3.30 $\pm$ 20%	20	14	8.4	7.5	100KHz/1V
SEP1204E-4R7M-LF	4.70 $\pm$ 20%	15	11	12.0	10.5	100KHz/1V
SEP1204E-5R6M-LF	5.60 $\pm$ 20%	19	9.5	18.0	17.1	100KHz/1V
SEP1204E-6R8M-LF	6.80 $\pm$ 20%	18	9.0	22.0	19.8	100KHz/1V
SEP1204E-8R2M-LF	8.20 $\pm$ 20%	16	8.5	28.0	24.8	100KHz/1V
SEP1204E-100M-LF	10.0 $\pm$ 20%	14	7.0	34.0	30.4	100KHz/1V

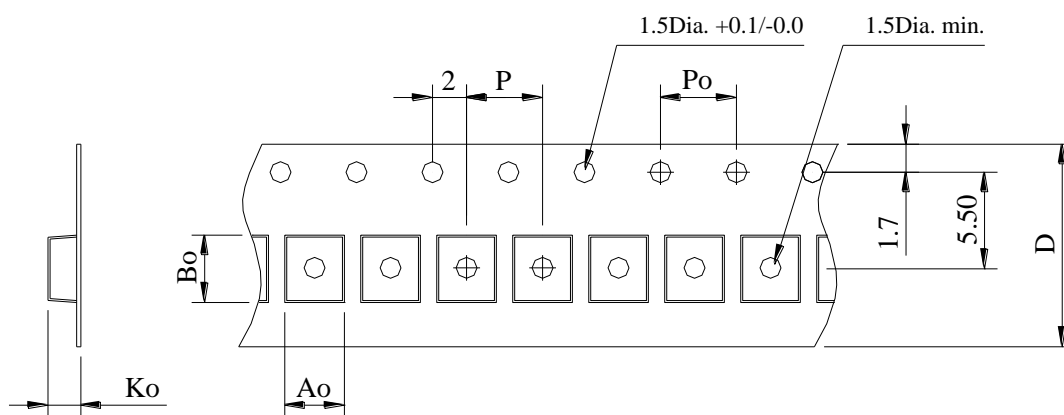
- I<sub>sat</sub> : DC current at which the inductance drops 30% (typ) from its value without current.
- I<sub>rms</sub> : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +125°C.



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### PACKAGING SPECIFICATION



STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)					
		$A_o$	$B_o$	$K_o$	$P$	$P_o$	$D \pm 0.3$
13"	500	14.2	13.5	4.1	20	4.0	24