



## High Current SMD Power Inductors - SEP1809E SERIES



### PART NUMBERING SYSTEM

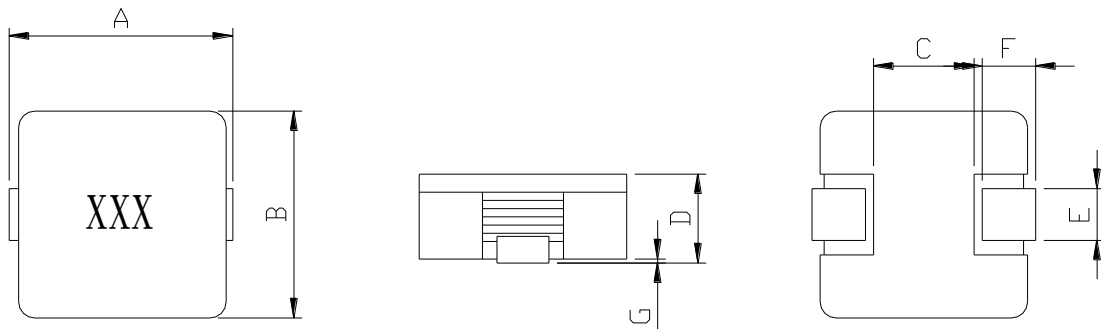
<b>SEP</b>	<b>1809E</b>	—	<b>330M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- \* Magnetically shielded low DC resistance .
- \* High Frequency Range .
- \* Handles high transient current spikes without saturation.
- \* Ultra low buzz noise, due to composite construction
- \* Application for DC/DC converter and PDA/notebook/desktop/server .

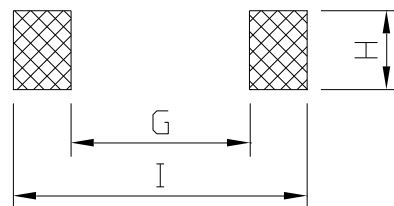
### SHAPES AND DIMENSIONS :

UNIT : mm



**A=19.3 Max. B=18.2 ± 0.5 D=9.2 Max. E=3.5 ± 1.5 F=4.5 ± 1.0**

### RECOMMENDED PATTERNS



**G=7.30 H= 6.00 I= 19.3**



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (mΩ) (Typ.)	Test Freq. (KHz)
SEP1809E-R82M-LF	0.82±20%	65.0	41.5	0.54	100KHz/0.1V
SEP1809E-1R3M-LF	1.3±20%	62.0	34.5	0.94	100KHz/0.1V
SEP1809E-1R9M-LF	1.9±20%	52.0	32.5	1.40	100KHz/0.1V
SEP1809E-2R6M-LF	2.6±20%	50.0	31.5	1.58	100KHz/0.1V
SEP1809E-3R5M-LF	3.5±20%	37.0	22.5	3.10	100KHz/0.1V
SEP1809E-4R5M-LF	4.5±20%	37.0	20.5	3.40	100KHz/0.1V
SEP1809E-5R6M-LF	5.6±20%	33.0	19.0	3.70	100KHz/0.1V
SEP1809E-6R8M-LF	6.8±20%	27.0	18.5	4.10	100KHz/0.1V
SEP1809E-100M-LF	10.0±20%	21.5	15.0	6.90	100KHz/0.1V
SEP1809E-150M-LF	15.0±20%	14.0	14.0	9.30	100KHz/0.1V
SEP1809E-220M-LF	22.0±20%	11.0	11.0	14.6	100KHz/0.1V
SEP1809E-330M-LF	33.0±20%	9.0	8.5	22.6	100KHz/0.1V
SEP1809E-470M-LF	47.0±20%	7.0	6.8	34.0	100KHz/0.1V

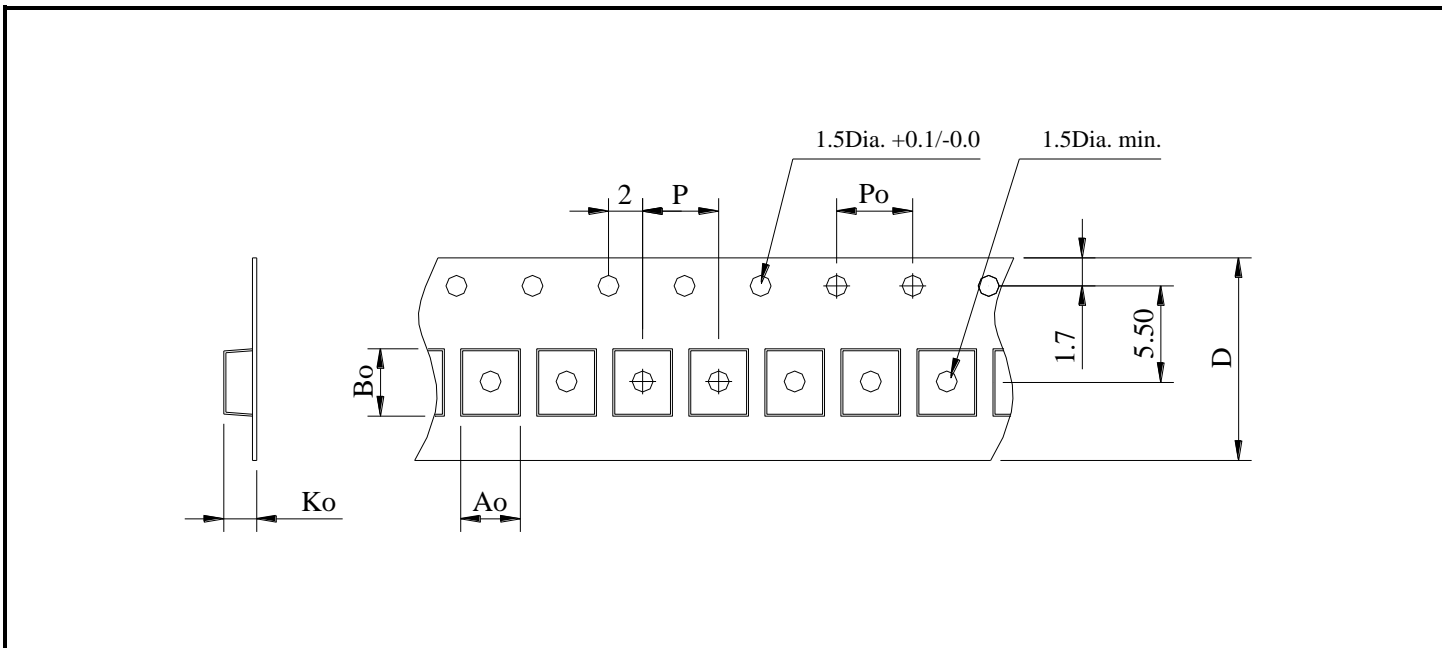
- Operating temperature range - 40 °C to + 125 °C
- I<sub>sat</sub> : DC current (A) that will cause L0 to drop approximately 30 %
- I<sub>rms</sub> : DC current (A) that will cause an approximate ΔT of 40 °C
- The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions.
- Customized specification is available
- Automotive grade available



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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"	250	19.0	19.5	9.5	24	4.0	32