

SEP1004EC SERIES ~

High Current SMD Power Inductors



RoHS Compliant

PART NUMBERING SYSTEM

<u>SEP</u>	<u>1004EC</u>	—	<u>1R0M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

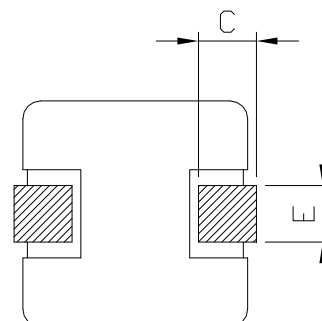
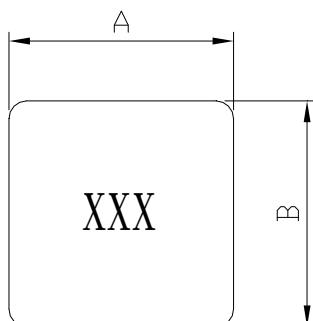
SHAPES AND DIMENSIONS :

UNIT : mm



FEATURES :

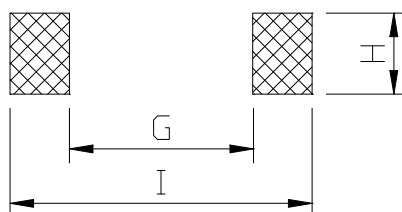
- * Low profile.
- * Magnetically shielded low DC resistance .
- * Suitable for large current application.
- * Laptop & Notebook computers.
- * Battery powered equipment.
- * DC/DC converters.
- * Digital 、 Cameras 、 Scanners, CD-ROM & DVD.



A=11.5±1.0 B=10.5±0.5 C=2.3 Ref. D=4.0 Max. E=3.0 Ref.

UNIT : mm

RECOMMENDED PATTERNS



G=6.0 H=4.0 I= 13.0

UNIT : mm

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Typ.)	I _{dc} (A) (Δ t) 40°C (Typ.)	DCR (m Ω) (Max.)	DCR (m Ω) (Typ.)	Test Freq. (KHz)
SEP1004EC-R19M-LF	0.19 $\pm$ 20%	46.0	40.0	0.80	0.70	100KHz/1V
SEP1004EC-R24M-LF	0.24 $\pm$ 20%	44.0	33.0	0.95	0.85	100KHz/1V
SEP1004EC-R36M-LF	0.36 $\pm$ 20%	30.0	32.0	1.15	1.05	100KHz/1V
SEP1004EC-R47M-LF	0.47 $\pm$ 20%	30.0	30.0	1.68	1.53	100KHz/1V
SEP1004EC-R56M-LF	0.56 $\pm$ 20%	22.0	32.0	1.80	1.60	100KHz/1V
SEP1004EC-R78M-LF	0.78 $\pm$ 20%	22.0	27.0	1.90	1.80	100KHz/1V
SEP1004EC-1R0M-LF	1.0 $\pm$ 20%	20.0	25.0	2.50	2.30	100KHz/1V
SEP1004EC-1R8M-LF	1.8 $\pm$ 20%	16.0	17.0	5.00	4.50	100KHz/1V
SEP1004EC-2R0M-LF	2.0 $\pm$ 20%	14.0	16.0	5.80	5.20	100KHz/1V
SEP1004EC-4R7M-LF	4.7 $\pm$ 20%	7.60	9.50	14.2	12.9	100KHz/1V
SEP1004EC-6R8M-LF	6.8 $\pm$ 20%	7.50	9.00	19.3	17.5	100KHz/1V
SEP1004EC-100M-LF	10 $\pm$ 20%	7.10	7.50	30.5	27.8	100KHz/1V
SEP1004EC-150M-LF	15 $\pm$ 20%	6.00	6.25	45.0	40.9	100KHz/1V
SEP1004EC-220M-LF	22 $\pm$ 20%	4.50	5.00	66.0	60.4	100KHz/1V
SEP1004EC-330M-LF	33 $\pm$ 20%	4.00	4.40	94.5	87.5	100KHz/1V
SEP1004EC-470M-LF	47 $\pm$ 20%	3.00	4.00	145	132	100KHz/1V
SEP1004EC-101M-LF	100 $\pm$ 20%	2.25	3.00	270	249	100KHz/1V

- I_{sat} : DC current at which the inductance drops 30% (typ) from its value without current.
- I_{dc} : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -25°C to +125°C.

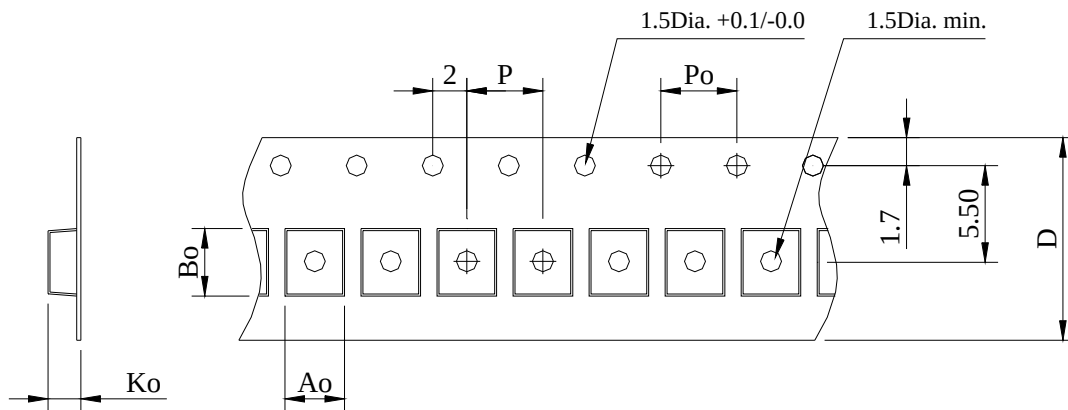
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PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	800	12.2	11.2	4.1	16	4.0	24