

SEP1003E SERIES ~

Low Profile High Current SMD Power Inductors



PART NUMBERING SYSTEM

RoHS Compliant

SEP	1003E	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

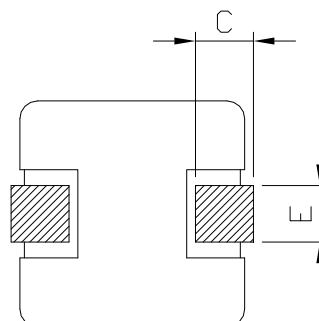
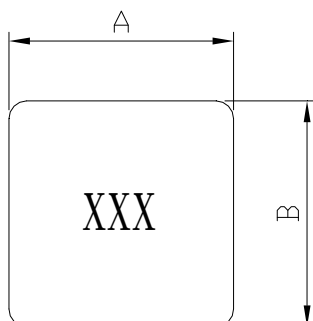
SHAPES AND DIMENSIONS :

UNIT : mm



FEATURES :

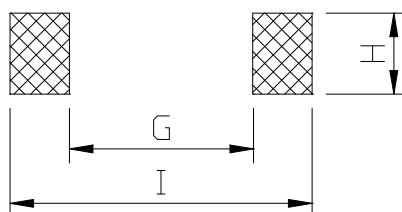
- * Low profile.
- * Magnetically shielded low DC resistance .
- * Suitable for large current application.
- * Laptop & Notebook computers.
- * Battery powered equipment.
- * DC/DC converters.
- * Digital 、 Cameras 、 Scanners, CD-ROM & DVD.



A=11.0±0.5 B=10.0±0.5 C=2.3±0.3 D=3.0 Max. E=3.0±0.3

RECOMMENDED PATTERNS

UNIT : mm



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 _{rms} (A) (Δ t) 40°C (Typ.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)	Test Freq. (KHz)
SEP1003E-R36M-LF	0.36 $\pm$ 20%	40	23	1.30	1.60	100KHz/1V
SEP1003E-R47M-LF	0.47 $\pm$ 20%	30	20	2.10	2.50	100KHz/1V
SEP1003E-R56M-LF	0.56 $\pm$ 20%	24	16	2.60	3.00	100KHz/1V
SEP1003E-1R0M-LF	1.0 $\pm$ 20%	20	15	4.60	6.00	100KHz/1V
SEP1003E-1R5M-LF	1.5 $\pm$ 20%	20	13	6.50	7.50	100KHz/1V
SEP1003E-2R2M-LF	2.2 $\pm$ 20%	16	12	8.00	9.00	100KHz/1V
SEP1003E-3R3M-LF	3.3 $\pm$ 20%	14	9.0	14.5	16.0	100KHz/1V
SEP1003E-4R7M-LF	4.7 $\pm$ 20%	13	7.0	20.5	22.5	100KHz/1V
SEP1003E-6R8M-LF	5.6 $\pm$ 20%	12	7.0	28.0	32.5	100KHz/1V
SEP1003E-6R8M-LF	6.8 $\pm$ 20%	9.5	6.5	30.2	35.0	100KHz/1V
SEP1003E-8R2M-LF	8.2 $\pm$ 20%	8.5	6.0	42.0	48.0	100KHz/1V
SEP1003E-100M-LF	10 $\pm$ 20%	8.0	5.0	50.0	55.0	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.

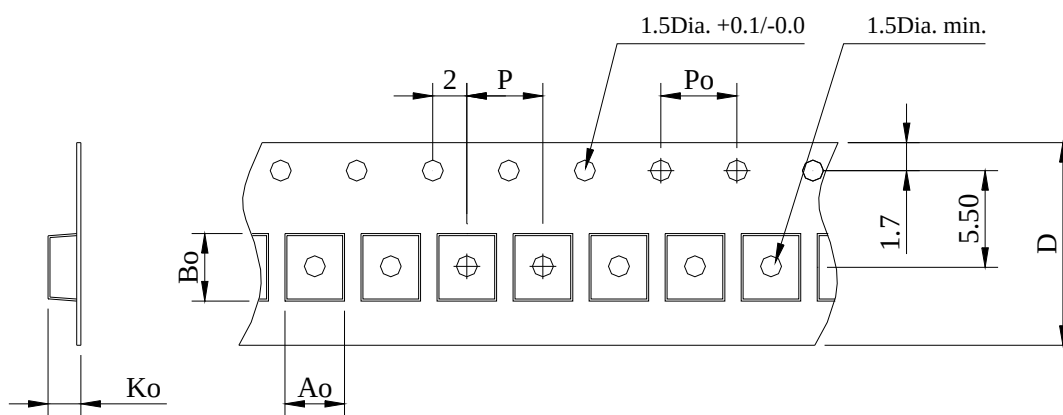
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PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	500	10.4±0.1	11.6±0.1	3.5±0.1	16±0.1	4.0	24±0.3