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High Current SMD Power Inductors ~ SEP1205E SERIES



PART NUMBERING SYSTEM

SEP	1205E	—	3R3M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

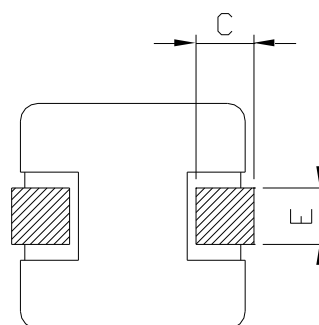
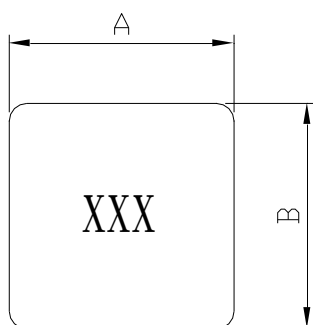


SHAPES AND DIMENSIONS :

UNIT : mm

FEATURES :

- * DC current up to 118Amp.
- * Magnetically shielded low DC resistance.
- * Suitable for large current application.
- * Laptop & Notebook computers.
- * Battery powered equipment.
- * DC/DC converters.
- * Custom design / automotive grade available.



A=13.5±1.0 B=12.8±0.5 C=2.5 Ref. D=5.0 Max. E=3.8 Ref.

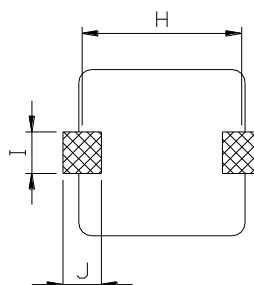
RECOMMENDED PATTERNS

UNIT : mm

H=11.00

I= 5.50

J= 4.00



All specifications are subject to change without notice.

Our specification limits the quality of the component to a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Max.)	Irms (A) (Δ t) 40°C (Max.)	DCR (m Ω) (Max.)	Test Freq. (KHz)
SEP1205E-R10M-LF	0.10 $\pm$ 20%	118	55	0.60	100KHz/1V
SEP1205E-R22M-LF	0.22 $\pm$ 20%	110	51	0.80	100KHz/1V
SEP1205E-R33M-LF	0.33 $\pm$ 20%	80	42	1.10	100KHz/1V
SEP1205E-R47M-LF	0.47 $\pm$ 20%	65	38	1.30	100KHz/1V
SEP1205E-R56M-LF	0.56 $\pm$ 20%	55	36	1.50	100KHz/1V
SEP1205E-R68M-LF	0.68 $\pm$ 20%	54	34	1.70	100KHz/1V
SEP1205E-R82M-LF	0.82 $\pm$ 20%	53	31	2.30	100KHz/1V
SEP1205E-1R0M-LF	1.00 $\pm$ 20%	50	29	2.50	100KHz/1V
SEP1205E-1R2M-LF	1.20 $\pm$ 20%	49	25	3.50	100KHz/1V
SEP1205E-1R5M-LF	1.50 $\pm$ 20%	48	23	4.10	100KHz/1V
SEP1205E-1R8M-LF	1.80 $\pm$ 20%	40	20	4.90	100KHz/1V
SEP1205E-2R2M-LF	2.20 $\pm$ 20%	32	20	5.50	100KHz/1V
SEP1205E-3R3M-LF	3.30 $\pm$ 20%	32	15	9.20	100KHz/1V
SEP1205E-4R7M-LF	4.70 $\pm$ 20%	27	12	15.0	100KHz/1V
SEP1205E-5R6M-LF	5.60 $\pm$ 20%	22	11.5	16.5	100KHz/1V
SEP1205E-6R8M-LF	6.80 $\pm$ 20%	21	11	18.5	100KHz/1V
SEP1205E-7R8M-LF	7.80 $\pm$ 20%	18	10	20.5	100KHz/1V
SEP1205E-8R2M-LF	8.20 $\pm$ 20%	18	9.5	22.5	100KHz/1V
SEP1205E-100M-LF	10.0 $\pm$ 20%	16	9.0	25.5	100KHz/1V

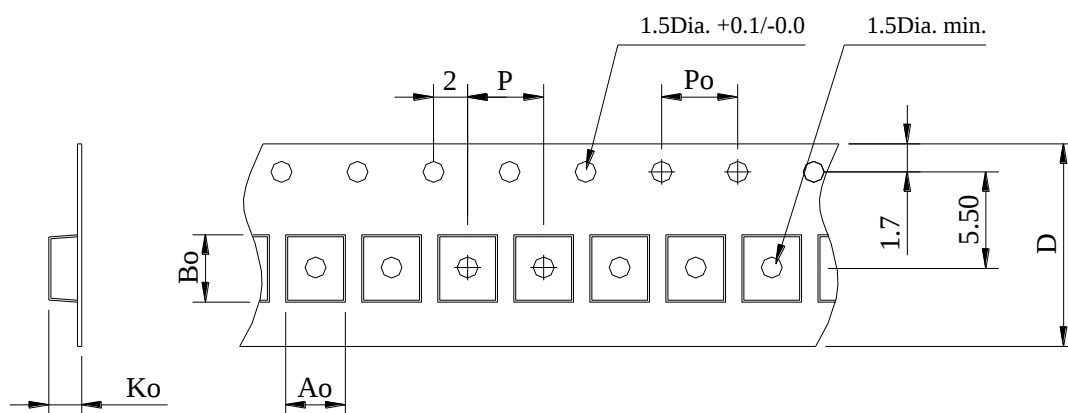
- Inductance measured at 100 kHz, 0.1 Vrms .
- I sat : DC current at which the inductance drops 30% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C .
- The 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"	500	14.2	13.5	4.1	16	4.0	24