



High Current Molding Power Inductors~ SEP0503EN SERIES



PART NUMBERING SYSTEM

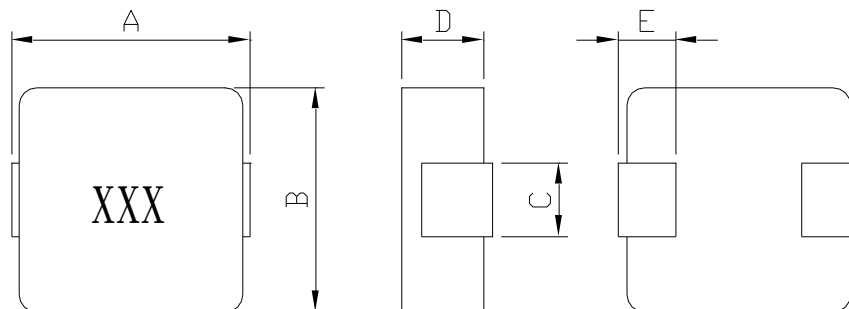
<u>SEP</u>	<u>0503EN</u>	—	<u>1R5M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .
- Frequency range up to 5MHZ .
- Large current handling capability .
- Alloy Powder
- Automotive Grade (AEC-Q200) available

SHAPES AND DIMENSIONS :

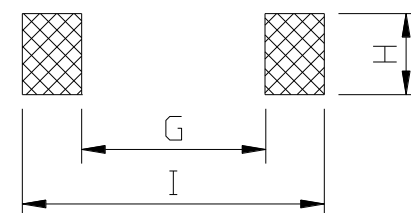
UNIT : mm



A=5.75 Max. B=5.40 Max. C=2.3±0.5 D=3.0 Max. E=1.2±0.5

RECOMMENDED PATTERNS

UNIT : mm



H=2.5 G= 2.2 I = 6.0



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Max.)	TEST FREQ. (f)
SEP0503EN-R10M-LF	0.10 $\pm$ 20%	30.0	25.0	3.0	100KHz/1V
SEP0503EN-R20M-LF	0.20 $\pm$ 20%	20.0	14.0	3.9	100KHz/1V
SEP0503EN-R33M-LF	0.33 $\pm$ 20%	18.0	14.0	5.5	100KHz/1V
SEP0503EN-R47M-LF	0.47 $\pm$ 20%	15.0	11.0	8.5	100KHz/1V
SEP0503EN-R68M-LF	0.68 $\pm$ 20%	11.5	9.0	12.0	100KHz/1V
SEP0503EN-1R0M-LF	1.0 $\pm$ 20%	10.0	8.50	14.0	100KHz/1V
SEP0503EN-1R2M-LF	1.2 $\pm$ 20%	9.5	8.50	16.0	100KHz/1V
SEP0503EN-1R5M-LF	1.5 $\pm$ 20%	9.0	8.20	25.0	100KHz/1V
SEP0503EN-2R2M-LF	2.2 $\pm$ 20%	7.0	7.0	29.0	100KHz/1V
SEP0503EN-3R3M-LF	3.3 $\pm$ 20%	6.0	5.5	38.0	100KHz/1V
SEP0503EN-3R3M-6A-LF	3.3 $\pm$ 20%	6.0	6.3	33.0	100KHz/1V
SEP0503EN-4R7M-LF	4.7 $\pm$ 20%	4.6	4.5	60.0	100KHz/1V
SEP0503EN-4R7M-5.3A-LF	4.7 $\pm$ 20%	5.3	5.5	44.0	100KHz/1V
SEP0503EN-6R8M-LF	6.8 $\pm$ 20%	3.6	3.5	90.0	100KHz/1V
SEP0503EN-100M-LF	10 $\pm$ 20%	3.5	3.2	125.0	100KHz/1V

- Isat : 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 -45°C to +125°C , Electrical specifications at 25°C .
- Excellent energy storage up to 5 MHz.
- Handle high current without saturation
- Ultra low buzz noise due to molded structure
- Excellent moisture resistance
- Applications: Notebook, Computer, IPC, Server, battery powered devices, POL converters, DC/DC converter
- Automotive Applications: Infotainment Systems, LED Lighting Modules, Small DC-DC Converters, Vehicle Connectivity Systems, Sensors and Actuators