



# SMD High Current Power Inductors - SEP0503G SERIES



## PART NUMBERING SYSTEM

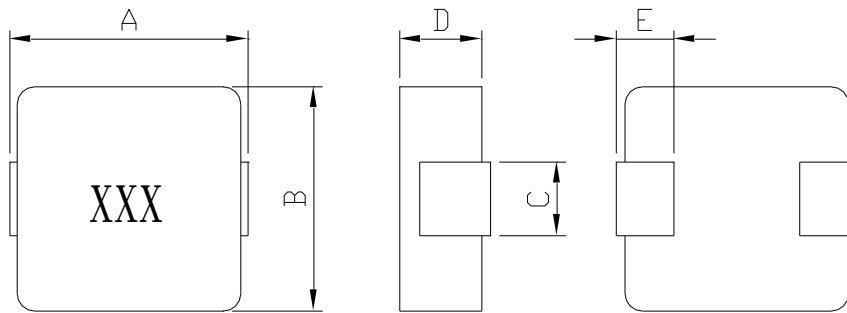
<b>SEP</b>	<b>0503EG</b>	—	<b>1R0M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

## FEATURES :

- Low profile ( 3.0mm max. height ) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation . DC Current up to 27A .
- Frequency range up to 5MHZ .
- Large current handling capability .
- Automotive / Customized part available

## SHAPES AND DIMENSIONS :

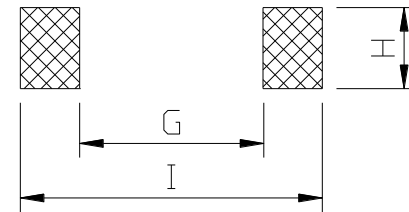
UNIT : mm



A=6.0 Max. B=5.5 Max. C=1.7±0.5 D=3.0 Max. E=1.2±0.3

## RECOMMENDED PATTERNS

UNIT : mm



H=2.5 G= 2.2 I = 6.1



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP0503EG-R10M-LF	0.10±20%	27.0	23.0	3.00	3.16
SEP0503EG-R22M-LF	0.22±20%	21.0	15.5	4.30	4.52
SEP0503EG-R33M-LF	0.33±20%	19.0	13.7	5.70	5.56
SEP0503EG-R47M-LF	0.47±20%	15.0	12.2	6.70	7.04
SEP0503EG-R68M-LF	0.68±20%	13.5	10.2	8.53	8.96
SEP0503EG-R82M-LF	0.82±20%	13.0	9.30	11.3	11.9
SEP0503EG-1R0M-LF	1.0±20%	12.0	9.20	13.1	13.7
SEP0503EG-1R5M-LF	1.5±20%	11.0	7.20	19.7	20.7
SEP0503EG-1R8M-LF	1.8±20%	10.0	5.80	27.8	29.2
SEP0503EG-2R2M-LF	2.2±20%	10.0	5.80	27.8	29.2
SEP0503EG-3R3M-LF	3.3±20%	8.50	5.00	52.1	54.7
SEP0503EG-4R7M-LF	4.7±20%	8.20	3.50	73.8	77.5

- 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.
- Test Frequency at 100KHz / 0.25V
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C .
- Reel Qty 2,000pcs
- 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, IPC, Server, battery powered devices, POL converters, DC/DC converter