



High Current SMD Power Inductors - SEP0503EC SERIES



PART NUMBERING SYSTEM

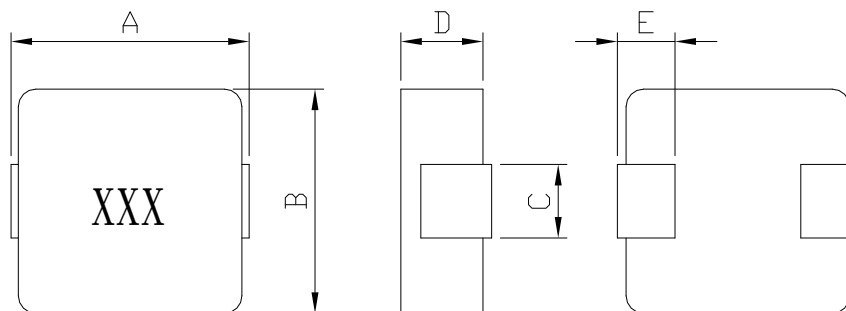
SEP	0503EC	—	4R7M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (3.0mm max. height) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current . DC current up to 25A .
- Ultra low buzz noise, due to composite construction .
- Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .
- Frequency range up to 1MHZ .
- Large current handling capability .

SHAPES AND DIMENSIONS :

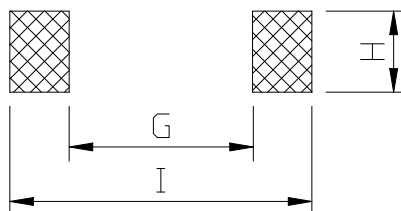
UNIT : mm



A=5.75 Max. B=5.45 Max. C=2.5±0.3 D=3.0 Max. E=1.0±0.3

RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.2 I = 6.0

High Current SMD Power Inductors - SEP0503EC SERIES



SPECIFICATION TABLE

AEC-Q200

PART NUMBER	INDUCTANCE (μH)	I _{sat} (A) (Typ.)	I _{rms} (A) (Typ.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP0503EC-R10M-LF	0.10±20%	25.0	21.0	2.60	2.90
SEP0503EC-R22M-LF	0.22±20%	14.5	21.0	3.50	3.90
SEP0503EC-R33M-LF	0.33±20%	9.00	16.5	4.50	5.00
SEP0503EC-R47M-LF	0.47±20%	9.00	14.0	5.40	6.00
SEP0503EC-1R0M-LF	1.0±20%	6.50	10.0	10.0	11.0
SEP0503EC-1R5M-LF	1.5±20%	7.00	7.50	17.1	18.5
SEP0503EC-2R2M-LF	2.2±20%	5.50	6.75	22.5	25.0
SEP0503EC-3R3M-LF	3.3±20%	7.00	5.50	36.4	40.4
SEP0503EC-4R7M-LF	4.7±20%	5.20	4.50	54.0	60.0
SEP0503EC-5R6M-LF	5.6±20%	3.50	4.25	63.0	70.6
SEP0503EC-100M-LF	10±20%	2.25	2.75	122.1	131.9
SEP0503EC-220M-LF	22±20%	1.70	1.90	250.0	260.0

- I_{sat} : DC current at which the inductance drops 20% (typ) from its value without current.
- I_{rms} : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C.