

## Low Profile Power Inductors - SEP0502EB SERIES



### PART NUMBERING SYSTEM

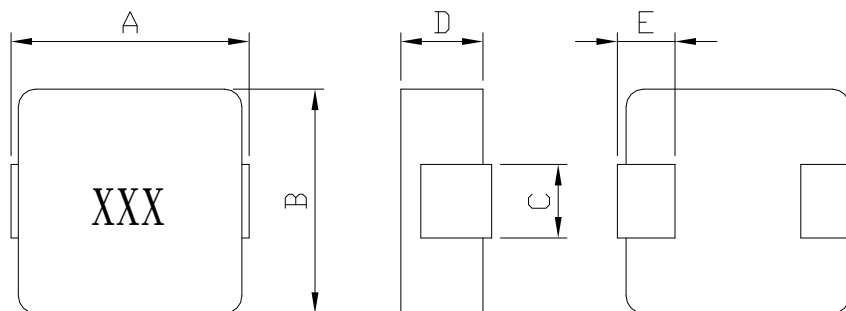
<b>SEP</b>	<b>0502EB</b>	—	<b>2R2M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 2.0mm max. height ) and 5.75 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current . DC current up to 45A.
- 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 5MHZ .
- Large current handling capability .

### SHAPES AND DIMENSIONS :

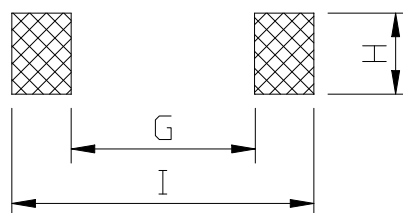
UNIT : mm



A=5.75 Max. B=5.45 Max. C=2.5±0.3 D=2.0 Max. E=1.0±0.3

### RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.16 I= 6.0

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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	I <sub>sat</sub> (A) (Typ.)	I <sub>rms</sub> (A) (Typ.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP0502EB-R10M-LF	0.10±20%	45.0	17.0	3.60	3.90
SEP0502EB-R22M-LF	0.22±20%	22.0	15.0	4.90	5.20
SEP0502EB-R33M-LF	0.33±20%	25.0	12.0	7.60	8.20
SEP0502EB-R47M-LF	0.47±20%	21.0	11.5	8.90	9.40
SEP0502EB-R68M-LF	0.68±20%	15.0	10.0	11.2	12.4
SEP0502EB-1R0M-LF	1.0±20%	16.0	7.00	18.9	20.0
SEP0502EB-2R2M-LF	2.2±20%	12.5	4.20	45.6	50.1
SEP0502EB-3R3M-LF	3.3±20%	8.50	3.30	79.2	85.5
SEP0502EB-4R7M-LF	4.7±20%	5.00	2.80	108	116.6
SEP0502EB-5R6M-LF	5.6±20%	4.50	2.50	113	122.0
SEP0502EB-6R8M-LF	6.8±20%	4.30	2.40	139	150.0
SEP0502EB-100M-LF	10±20%	4.00	2.30	184	199.0

- I<sub>sat</sub> : DC current at which the inductance drops 20% (typ) from its value without current.
- I<sub>rms</sub> : 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.