



SEP0503EB SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

AEC-Q₂₀₀

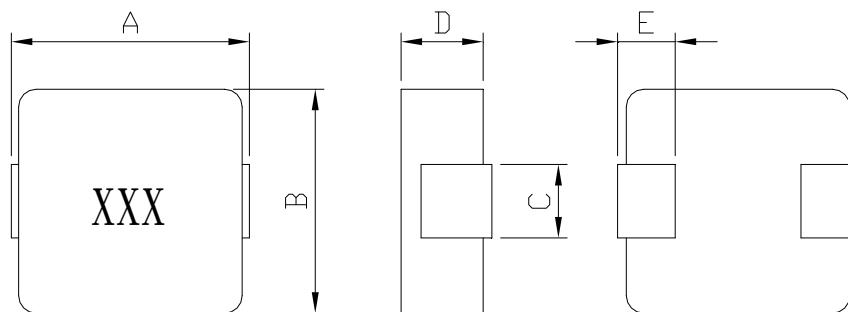
SEP	0503EB	—	1R0M	—	LF	—	A
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE		AUTOMOTIVE

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 .
- Frequency range up to 5MHZ .
- Large current handling capability .

SHAPES AND DIMENSIONS :

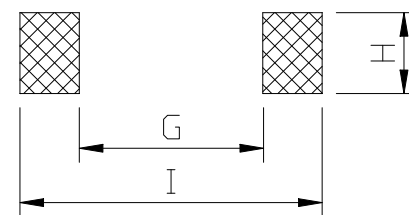
UNIT : mm



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

RECOMMENDED PATTERNS

UNIT : mm



H=2.8 G= 2.2 I = 6.0



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SPECIFICATION TABLE

AEC-Q₂₀₀

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Typ.)	I _{rms} (A) (Typ.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP0503EB-R10M-LF-A	0.10 \pm 20%	27.0	23.0	3.00	3.16
SEP0503EB-R22M-LF-A	0.22 \pm 20%	21.0	15.5	4.30	4.52
SEP0503EB-R33M-LF-A	0.33 \pm 20%	19.0	13.7	5.70	5.56
SEP0503EB-R47M-LF-A	0.47 \pm 20%	15.0	12.2	6.70	7.04
SEP0503EB-R68M-LF-A	0.68 \pm 20%	13.5	10.2	8.53	8.96
SEP0503EB-R82M-LF-A	0.82 \pm 20%	13.0	9.30	11.3	11.9
SEP0503EB-1R0M-LF-A	1.0 \pm 20%	12.0	9.20	13.1	13.7
SEP0503EB-1R5M-LF-A	1.5 \pm 20%	11.0	7.20	19.7	20.7
SEP0503EB-2R2M-LF-A	2.2 \pm 20%	10.0	5.80	27.8	29.2
SEP0503EB-3R3M-LF-A	3.3 \pm 20%	8.50	5.00	52.1	54.7
SEP0503EB-4R7M-LF-A	4.7 \pm 20%	8.20	3.50	73.8	77.5
SEP0503EB-5R6M-LF-A	6.8 \pm 20%	4.10	3.00	103	108
SEP0503EB-100M-LF-A	10 \pm 20%	4.00	2.50	152	158
SEP0503EB-150M-LF-A	15 \pm 20%	2.50	1.90	252	265

- 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.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -55°C to +125°C , Electrical specifications at 25°C.
- Reel Qty 2,000pcs