



SEP1010EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

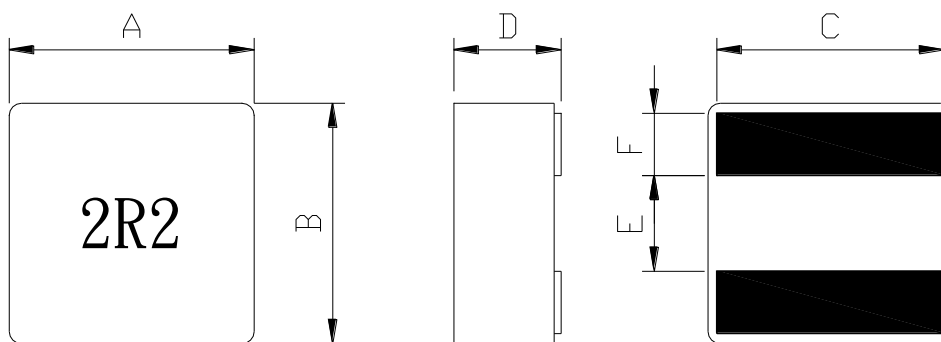
SEP	1010EX	—	100M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Excellent current handling – up to 32 A; Exceptionally low DCR – only 2.42 mOhms
- Inductance range: 2.2 μ H – 15 μ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation with AEC-Q200 Grade 1 (–40°C to +125°C) .

SHAPES AND DIMENSIONS :

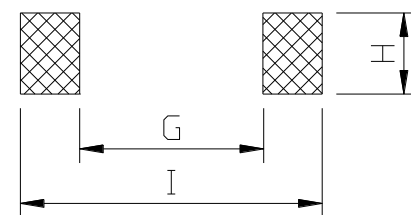
UNIT : mm



A=11.6±0.3 B=10.5±0.3 C=7.5±0.5 D=8.8±0.3 E=4.45±0.3 F= 2.2±0.3

RECOMMENDED PATTERNS

UNIT : mm



H=9.0 G= 3.3 I = 9.3

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Max.)	I _{rms} (A) (Max.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP1010EX-2R2M-LF	2.2 \pm 20%	32.0	33.0	2.20	2.42
SEP1010EX-3R3M-LF	3.3 \pm 20%	25.0	26.0	3.40	3.74
SEP1010EX-4R7M-LF	4.7 \pm 20%	24.0	25.4	5.40	5.94
SEP1010EX-5R6M-LF	5.6 \pm 20%	21.2	23.6	6.40	7.04
SEP1010EX-6R8M-LF	6.8 \pm 20%	18.5	21.8	7.60	8.36
SEP1010EX-8R2M-LF	8.2 \pm 20%	18.0	17.0	12.40	12.90
SEP1010EX-100M-LF	10 \pm 20%	17.5	15.5	10.00	13.40
SEP1010EX-150M-LF	15 \pm 20%	15.5	13.8	14.10	14.75

- I_{sat} : DC current at which the inductance drops 30% (Max.) from its value without current.
- I_{rms} : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 1.0V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.