



SEP4040EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

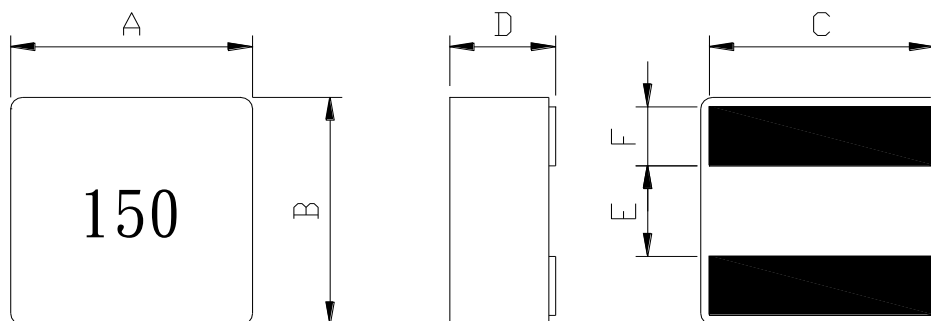
SEP	4040EX	—	8R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- High current and very low DCR
- Inductance range: 8.20 μ H – 15.0 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 :

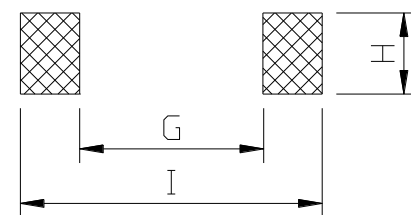
UNIT : mm



A=4.1±0.25 B=4.1±0.25 C=3.4±0.3 D=3.8±0.2 E=0.88±0.2 F= 1.6±0.25

RECOMMENDED PATTERNS

UNIT : mm



H=3.7 G= 1.39 I = 3.35



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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.)
SEP4040EX-8R2M-LF	8.2 \pm 20%	4.00	3.40	60.8	66.9
SEP4040EX-100M-LF	10 \pm 20%	3.00	3.10	84.0	92.4
SEP4040EX-150M-LF	15 \pm 20%	2.30	2.80	102	120

- 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 / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.