



SEP8080EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

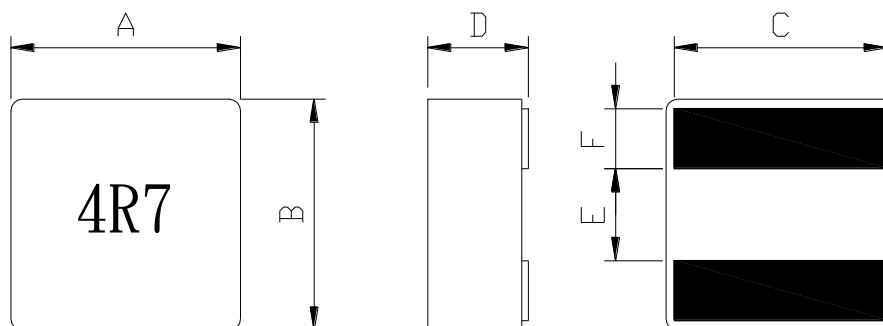
SEP	8080EX	—	4R7M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Excellent current handling – up to 38 A; Exceptionally low DCR – only 1.65 mOhms
- Inductance range: 0.68 μ H – 10 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 :

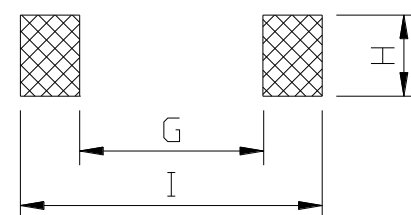
UNIT : mm



A=8.8 \pm 0.2 B=8.3 \pm 0.2 C=6.5 \pm 0.3 D=7.8 \pm 0.2 E=3.6 \pm 0.4 F= 1.40 \pm 0.2

RECOMMENDED PATTERNS

UNIT : mm



H=7.5 G= 3.0 I = 7.0



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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.)
SEP8080EX-R68M-LF	0.68 \pm 20%	38.0	37.0	1.38	1.65
SEP8080EX-1R0M-LF	1.0 \pm 20%	31.0	34.0	2.10	2.30
SEP8080EX-2R2M-LF	2.2 \pm 20%	24.0	21.0	3.70.	4.10.
SEP8080EX-4R7M-LF	4.7 \pm 20%	17.4	17.4	8.65	9.50
SEP8080EX-6R8M-LF	6.8 \pm 20%	14.0	11.0	13.5	14.9
SEP8080EX-100M-LF	10 \pm 20%	11.0	9.0	20.0	22.0

- 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.