



SEP8080EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

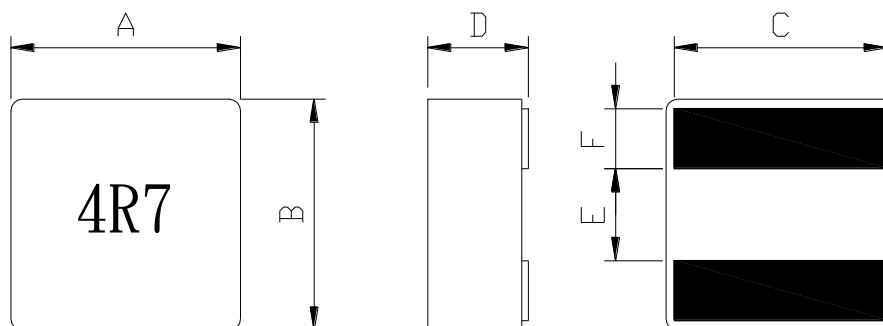
SEP	8080EX	—	4R7M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Excellent current handling – up to 38 A; Exceptionally low DCR – only 2.0 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 :

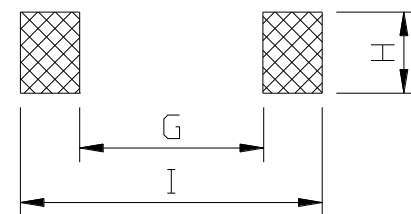
UNIT : mm



A=9.30 Max. B=9.00 Max. C=6.2 \pm 0.3 D=8.1 \pm 0.4 E=4.8 \pm 0.4 F=1.2 \pm 0.2

RECOMMENDED PATTERNS

UNIT : mm



H=8.0 G= 4.4 I = 7.6

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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	36.0	1.30	2.00
SEP8080EX-1R0M-LF	1.0 \pm 20%	31.0	34.0	1.70	2.50
SEP8080EX-1R5M-LF	1.5 \pm 20%	28.0	28.0	2.50	3.50
SEP8080EX-2R2M-LF	2.2 \pm 20%	24.0	25.0	2.90.	3.80.
SEP8080EX-3R3M-LF	3.3 \pm 20%	19.0	17.5	5.60.	6.50.
SEP8080EX-4R7M-LF	4.7 \pm 20%	17.5	15.0	7.00	8.50
SEP8080EX-6R8M-LF	6.8 \pm 20%	14.0	12.0	12.0	13.0
SEP8080EX-8R2M-LF	8.2 \pm 20%	12.0	11.0	13.3	15.0
SEP8080EX-100M-LF	10 \pm 20%	11.0	10.0	13.8	15.5

- 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.