



SEP1208EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

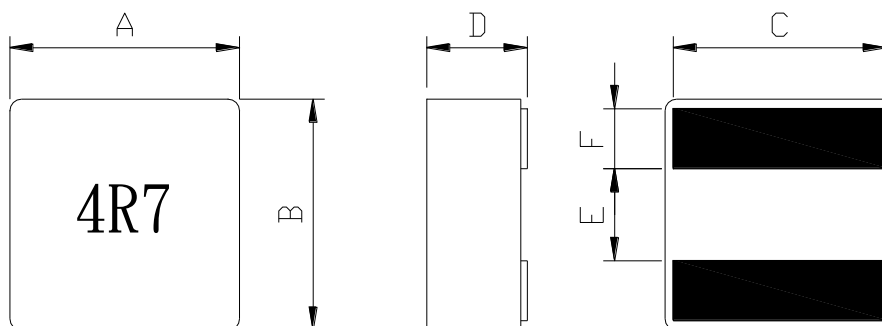
SEP	1208EX	—	220M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Excellent current handling – up to 42 A; Exceptionally low DCR – only 3.85 mOhms
- Inductance range: 4.7 μ H – 22 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 :

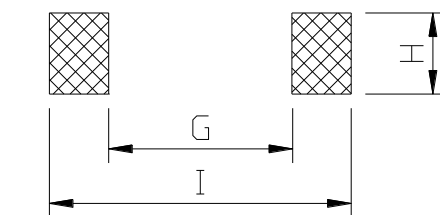
UNIT : mm



A=12.0 \pm 0.5 B=11.0 \pm 0.5 C=8.2 \pm 0.4 D=8.8 Max. E=6.4 \pm 0.3 F= 1.6 \pm 0.2

RECOMMENDED PATTERNS

UNIT : mm



H=10.0 G= 6.0 I = 10.0



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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.)
SEP1208EX-R47M-LF	0.47 \pm 20%	65.0	50.0	1.10	1.50
SEP1208EX-1R0M-LF	1.0 \pm 20%	45.0	40.0	1.50	2.00
SEP1208EX-1R5M-LF	1.5 \pm 20%	36.0	33.0	2.00	2.50
SEP1208EX-2R2M-LF	2.2 \pm 20%	30.0	30.0	2.40	2.80
SEP1208EX-3R3M-LF	3.3 \pm 20%	26.0	26.0	3.30	3.80
SEP1208EX-4R7M-LF	4.7 \pm 20%	23.0	20.0	5.70	6.20
SEP1208EX-5R6M-LF	5.6 \pm 20%	21.0	18.0	6.40	7.00
SEP1208EX-6R8M-LF	6.8 \pm 20%	19.0	17.0	6.80	7.80
SEP1208EX-8R2M-LF	8.2 \pm 20%	18.0	16.0	8.20	9.00
SEP1208EX-100M-LF	10 \pm 20%	17.5	13.0	11.3	12.0
SEP1208EX-150M-LF	15 \pm 20%	13.5	11.0	14.3	15.0

- 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.