



SEP6060EX-A SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

(AEC-Q200)

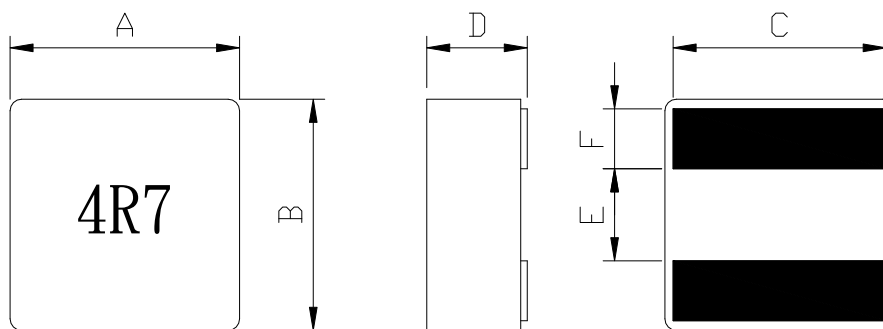
SEP	6060EX	—	4R7M	—	LF-A
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (6.1mm max. height) and 6.65 mm max. square.
- Excellent current handling – up to 10.5 A; Exceptionally low DCR – only 14.3 mOhms
- Inductance rage: 4.7 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 :

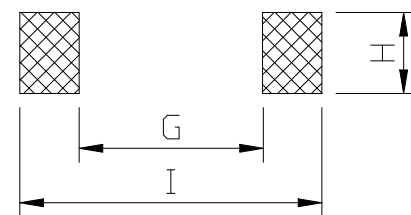
UNIT : mm



A=6.65±0.2 B=6.45±0.2 C=4.9±0.4 D=5.8±0.3 E=2.75±0.25 F= 1.3±0.2

RECOMMENDED PATTERNS

UNIT : mm



H=6.0 G= 2.5 I = 6.5



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SPECIFICATION TABLE

(AEC-Q200)

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Max.)	I _{rms} (A) (Max.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP6060EX-4R7M-LF-A	4.7 \pm 20%	10.5	11.0	13.00	14.30
SEP6060EX-5R6M-LF-A	5.6 \pm 20%	10.0	10.0	15.00	16.50
SEP6060EX-6R8M-LF-A	6.8 \pm 20%	9.20	9.00	17.60	19.36
SEP6060EX-8R2M-LF-A	8.2 \pm 20%	8.40	8.00	23.00	25.30
SEP6060EX-100M-LF-A	10 \pm 20%	7.60	7.00	26.50	29.15
SEP6060EX-150M-LF-A	15 \pm 20%	5.80	6.00	39.00	43.00

- 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.