



SEP6030EX SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

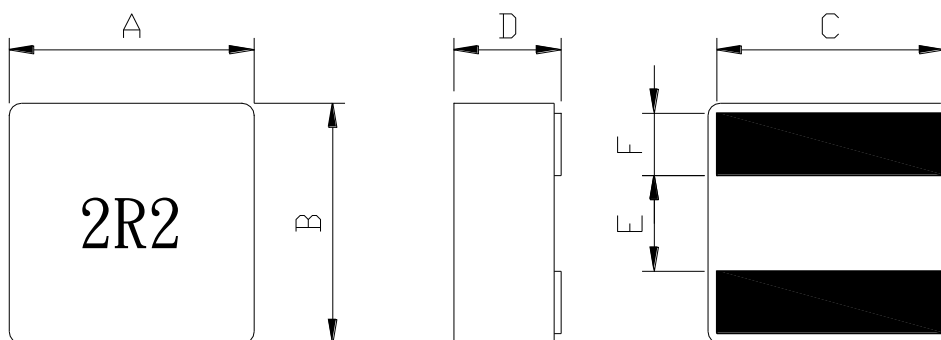
SEP	6030EX	—	2R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Excellent current handling – up to 39 A; Exceptionally low DCR – only 1.45 mOhms
- Inductance range: 0.18 μ H – 3.30 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 :

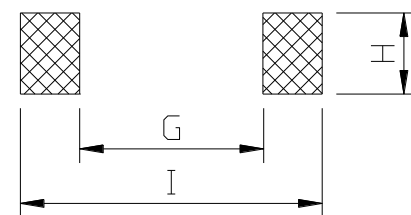
UNIT : mm



A=6.65±0.2 B=6.45±0.2 C=4.9±0.4 D=3.3±0.3 E=2.85±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

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Max.)	I _{rms} (A) (Max.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP6030EX-R18M-LF	0.18 \pm 20%	39.0	32.0	1.32	1.45
SEP6030EX-R33M-LF	0.33 \pm 20%	30.0	25.0	2.10	2.31
SEP6030EX-R56M-LF	0.56 \pm 20%	29.0	22.0	2.90	3.19
SEP6030EX-1R2M-LF	1.2 \pm 20%	22.0	16.0	6.40	7.04
SEP6030EX-1R8M-LF	1.8 \pm 20%	18.2	14.0	9.80	10.78
SEP6030EX-2R2M-LF	2.2 \pm 20%	15.9	10.0	10.50	11.55
SEP6030EX-3R3M-LF	3.3 \pm 20%	12.2	8.00	19.20	21.12

- 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.