



SEP4020EX-A SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

(AEC-Q 200)

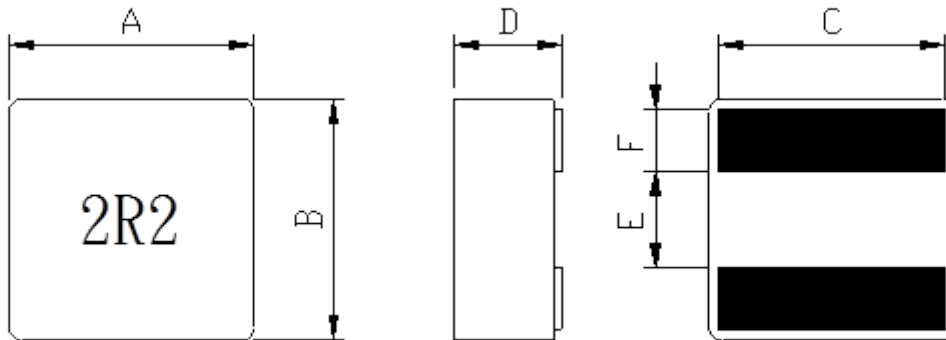
SEP	4020EX	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- High current and very low DCR
- Inductance range: 0.22 μ H – 2.2 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 :

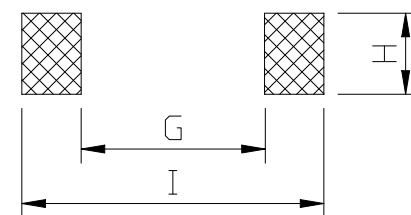
UNIT : mm



A=4.1±0.25 B=4.1±0.25 C=3.4±0.3 D=1.9±0.2 E=0.88±0.2 F= 1.6±0.25

RECOMMENDED PATTERNS

UNIT : mm



H=3.7 G= 1.39 I = 3.35



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SPECIFICATION TABLE

(AEC-Q 200)

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Max.)	I _{rms} (A) (Max.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP4020EX-R22M-LF	0.22 \pm 20%	18.70	16.80	5.81	6.40
SEP4020EX-R40M-LF	0.40 \pm 20%	12.50	14.00	7.55	8.30
SEP4020EX-R60M-LF	0.60 \pm 20%	10.40	11.70	9.50	10.45
SEP4020EX-1R0M-LF	1.0 \pm 20%	8.70	9.60	13.25	14.60
SEP4020EX-1R2M-LF	1.2 \pm 20%	7.90	9.00	17.75	19.50
SEP4020EX-1R5M-LF	1.5 \pm 20%	7.10	7.50	21.45	23.60
SEP4020EX-2R2M-LF	2.2 \pm 20%	5.60	5.50	35.20	38.70

- 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 / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.