



## SMT High Current Power Inductors - SEP4020EX SERIES



### PART NUMBERING SYSTEM

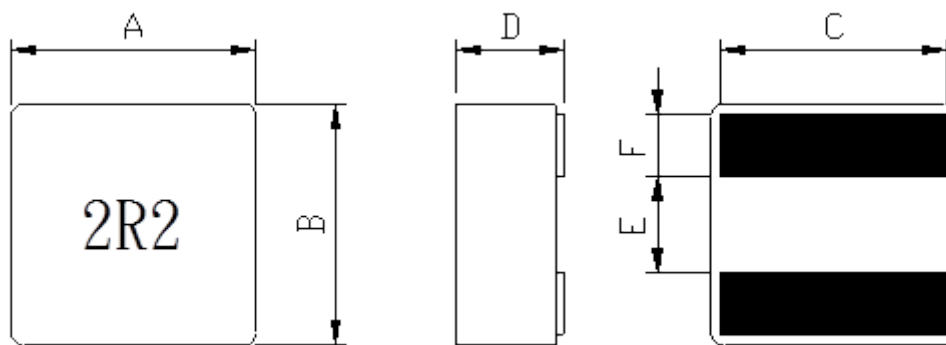
<b>SEP</b>	<b>4020EX</b>	—	<b>1R0M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- High current and very low DCR
- Inductance range: 0.22  $\mu$ H – 2.2  $\mu$ 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 :

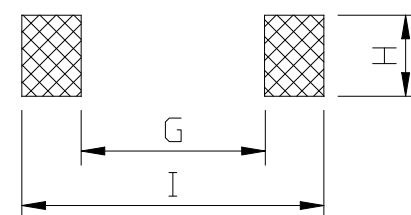
UNIT : mm



A=4.4±0.2 B=4.4±0.2 C=3.4±0.3 D=1.9±0.2 E=1.6±0.25 F= 0.88±0.2

### RECOMMENDED PATTERNS

UNIT : mm



H=3.8 G= 1.4 I = 3.34



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	I <sub>sat</sub> (A) (Max.)	I <sub>rms</sub> (A) (Max.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP4020EX-R10M-LF	0.10±20%	33.0	18.0	2.20	2.42
SEP4020EX-R22M-LF	0.22±20%	18.8	16.8	4.10	4.60
SEP4020EX-R33M-LF	0.33±20%	16.5	15.5	5.00	5.50
SEP4020EX-R36M-LF	0.36±20%	15.0	14.5	5.60	6.30
SEP4020EX-R40M-LF	0.40±20%	13.5	14.0	6.90	7.73
SEP4020EX-R47M-LF	0.47±20%	13.0	12.5	7.80	8.58
SEP4020EX-R56M-LF	0.56±20%	12.6	12.0	8.40	9.30
SEP4020EX-R60M-LF	0.60±20%	12.3	11.7	8.60	9.52
SEP4020EX-R72M-LF	0.72±20%	10.6	10.5	10.4	11.6
SEP4020EX-1R0M-LF	1.0±20%	8.80	9.60	13.3	14.6
SEP4020EX-1R2M-LF	1.2±20%	7.80	9.00	16.2	17.9
SEP4020EX-1R5M-LF	1.5±20%	7.40	7.60	21.0	23.5
SEP4020EX-1R8M-LF	1.8±20%	7.00	7.00	25.0	28.0
SEP4020EX-2R2M-LF	2.2±20%	6.00	5.60	35.2	38.7

- I<sub>sat</sub> : DC current at which the inductance drops 30% (Max.) from its value without current.
- I<sub>rms</sub> : 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.