



## High Current SMD Power Inductors - SEP3020EXS SERIES



### PART NUMBERING SYSTEM

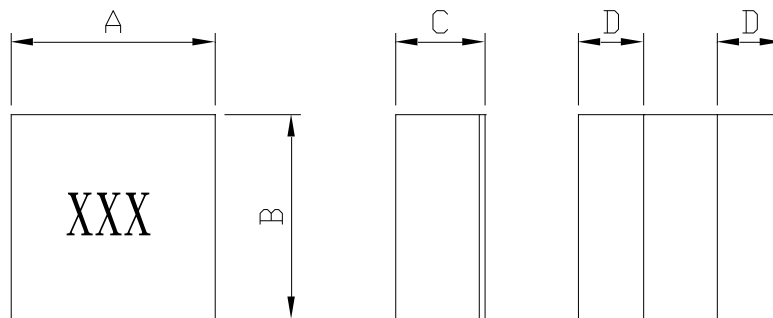
<b>SEP</b>	<b>3020EXS</b>	—	<b>R47M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- High-current power inductors with magnetic shielding for enhanced performance.
- Compact and low-profile design with a maximum height of 2.0mm
- Shielded construction minimizes acoustic noise and leakage flux noise.
- Environmentally friendly:  
Halogen-free, 100% lead-free (Pb-free), and compliant with RoHS regulations.
- Utilizes flat wire and low core loss material for improved efficiency.
- High reliability due to the direct connection of the flat wire to the soldering pad.

### SHAPES AND DIMENSIONS :

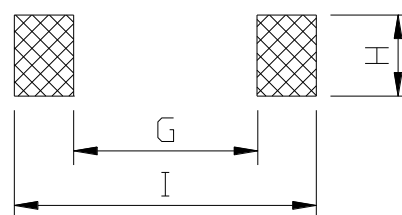
UNIT : mm



**A=3.0±0.2 B=3.0±0.2 C=2.0 Max. D=1.05 Ref.**

### RECOMMENDED PATTERNS

UNIT : mm



**H=3.0 G= 0.8 I = 3.0**



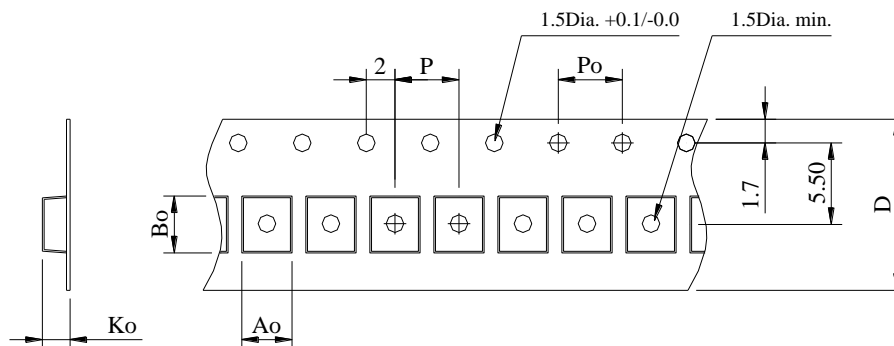
## High Current SMD Power Inductors - SEP3020EXS SERIES

### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (mΩ) (Typ.)	TEST FREQ. ( Freq.)
SEP3020EXS-R15M-LF	0.15±20%	18.0	13.0	4.0	1MHz/1V
SEP3020EXS-R33M-LF	0.33±20%	17.0	10.0	7.5	1MHz/1V
SEP3020EXS-R50M-LF	0.50±20%	15.0	9.0	9.0	1MHz/1V
SEP3020EXS-R68M-LF	0.68±20%	13.0	8.5	13.0	1MHz/1V
SEP3020EXS-1R0M-LF	1.0±20%	8.0	6.5	14.0	1MHz/1V
SEP3020EXS-1R5M-LF	1.5±20%	7.0	6.3	19.0	1MHz/1V
SEP3020EXS-2R2M-LF	2.2±20%	6.0	4.7	37.0	1MHz/1V
SEP3020EXS-3R3M-LF	3.3±20%	5.9	4.5	52.0	1MHz/1V
SEP3020EXS-4R7M-LF	4.7±20%	4.8	4.2	60.0	1MHz/1V
SEP3020EXS-6R8M-LF	6.8±20%	4.5	3.2	107	1MHz/1V
SEP3020EXS-100M-LF	10.0±20%	3.8	2.5	135	1MHz/1V
SEP3020EXS-150M-LF	15.0±20%	2.6	1.8	235	1MHz/1V

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

### PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D
7"	3,000	3.4±0.1	3.4±0.1	2.2±0.1	4±0.1	4.0±0.1	12±0.3