



## SEP4020HS SERIES~ High Current SMD Power Inductors



### PART NUMBERING SYSTEM

(AEC-Q200)

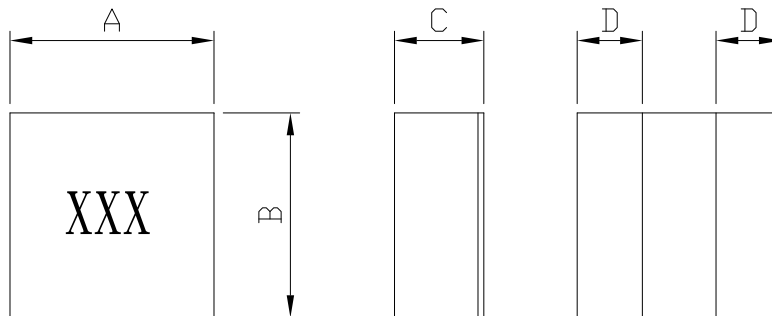
<b>SEP</b>	<b>4020HS</b>	—	<b>3R3M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Magnetically alloy Power Chokes .
- Low profile ( 2.0mm max. height ) and 4.0 mm (Length) \* 3.8mm (Width) compact original design .
- Low acoustic noise and low leakage flux noise by shielded construction .
- Halogen Free , 100% lead ( Pb ) Free and RoHS compliant .

### SHAPES AND DIMENSIONS :

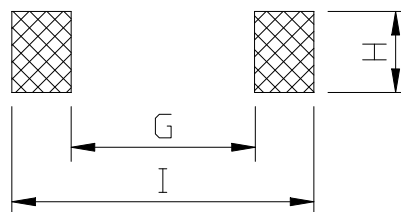
UNIT : mm



**A=4.00±0.30 B=3.80±0.30 C=2.0Max. D=1.20±0.20**

### RECOMMENDED PATTERNS

UNIT : mm



**H=4.10 G= 2.90 I = 5.30**



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### SPECIFICATION TABLE

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PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (m $\Omega$ ) (Max.)	DCR (m $\Omega$ ) (Typ.)
SEP4020HS-R47M-LF	0.47 $\pm$ 20%	13.0	8.70	10.0	8.00
SEP4020HS-1R0M-LF	1.0 $\pm$ 20%	9.30	6.50	18.0	15.0
SEP4020HS-1R5M-LF	1.5 $\pm$ 20%	7.20	5.20	26.0	22.0
SEP4020HS-2R2M-LF	2.2 $\pm$ 20%	5.90	4.10	43.0	36.0
SEP4020HS-3R3M-LF	3.3 $\pm$ 20%	4.60	3.70	52.0	44.0
SEP4020HS-4R7M-LF	4.7 $\pm$ 20%	4.00	3.00	74.0	62.0
SEP4020HS-6R8M-LF	6.8 $\pm$ 20%	3.20	2.60	98.0	82.0
SEP4020HS-100M-LF	10.0 $\pm$ 20%	2.70	2.10	156.0	130.0
SEP4020HS-150M-LF	15.0 $\pm$ 20%	2.20	1.70	240.0	200.0
SEP4020HS-220M-LF	22.0 $\pm$ 20%	1.80	1.40	320.0	270.0

- Inductance is measured with the HP4294A LCR Meter or equivalent @ 1MHz, 0.1V<sub>rms</sub>.
- I<sub>sat</sub> : DC current at which the inductance drops 30% (Typ.) 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.

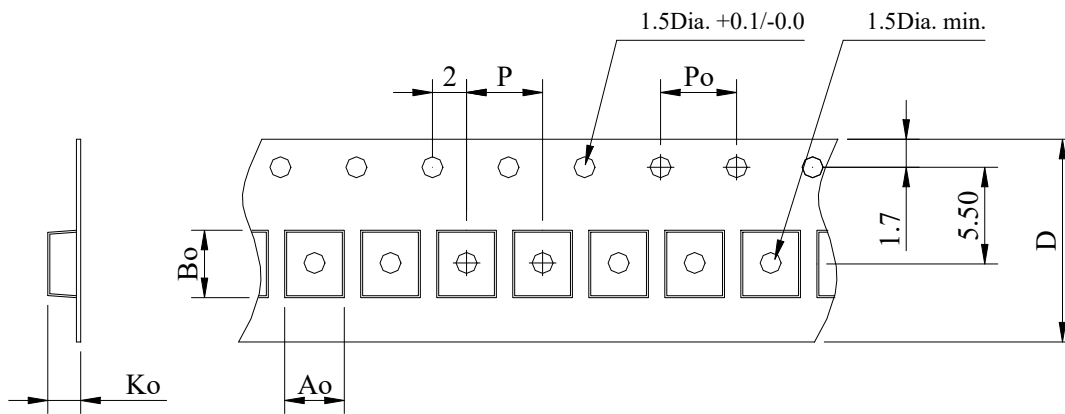


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### PACKAGING SPECIFICATION

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STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		$A_o$	$B_o$	$K_o$	$P$	$P_o$	$D$
13"	3,000	$4.25\pm0.1$	$4.45\pm0.1$	$2.30\pm0.1$	$4.0\pm0.1$	$4.0\pm0.1$	$8\pm0.2$