

## SEP4512HS SERIES ~ High Current Power Inductors



### PART NUMBERING SYSTEM

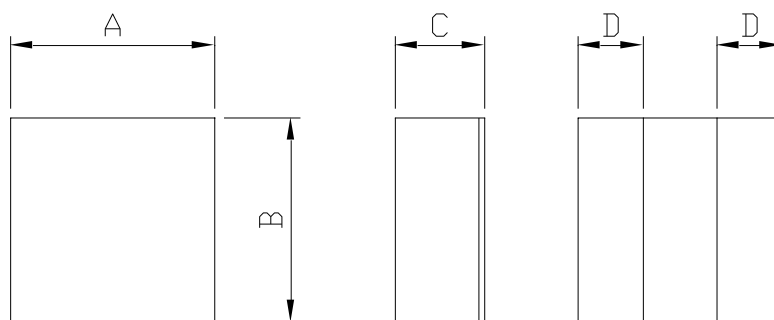
<b>SEP</b>	<b>4512HS</b>	—	<b>1R0M</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### FEATURES :

- Low profile ( 1.2mm max. height ) and 4.5X4.3 mm max. square.
- Excellent current handling – up to 8 A; Exceptionally low DCR – only 19.6 mOhms
- Inductance range: 0.47  $\mu$ H – 22  $\mu$ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation .

### SHAPES AND DIMENSIONS :

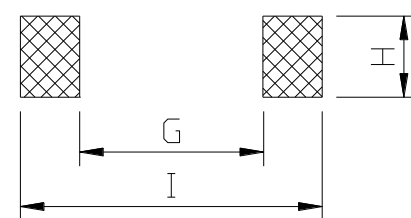
UNIT : mm



A=4.5 $\pm$ 0.25 B=4.3 $\pm$ 0.25 C=1.20 Max. D=1.3 $\pm$ 0.25

### RECOMMENDED PATTERNS

UNIT : mm



H=4.7 G= 1.7 I = 4.9



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE ( $\mu$ H)	I <sub>sat</sub> ( A ) (Typ.)	I <sub>rms</sub> ( A ) (Typ.)	DCR (m $\Omega$ ) (Typ.)	DCR (m $\Omega$ ) (Max.)
SEP4512HS-R47M-LF	0.47 $\pm$ 20%	8.00	6.00	16.4	19.6
SEP4512HS-1R0M-LF	1.00 $\pm$ 20%	6.00	4.80	27.0	33.0
SEP4512HS-2R2M-LF	2.20 $\pm$ 20%	4.20	3.00	66.0	79.0
SEP4512HS-4R7M-LF	4.70 $\pm$ 20%	3.00	2.40	104	124
SEP4512HS-6R8M-LF	6.80 $\pm$ 20%	2.40	1.80	178	213
SEP4512HS-100M-LF	10.0 $\pm$ 20%	2.10	1.60	256	307
SEP4512HS-220M-LF	22.0 $\pm$ 20%	1.30	1.10	484	580

- 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 1MHz / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.