



Coilmaster Electronics Co., Ltd.
9F-3 No.398, Huan Bei Rd. Chung Li City, Taoyuan 320, Taiwan

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SEP5420HS SERIES ~ High Current Power Inductors



PART NUMBERING SYSTEM

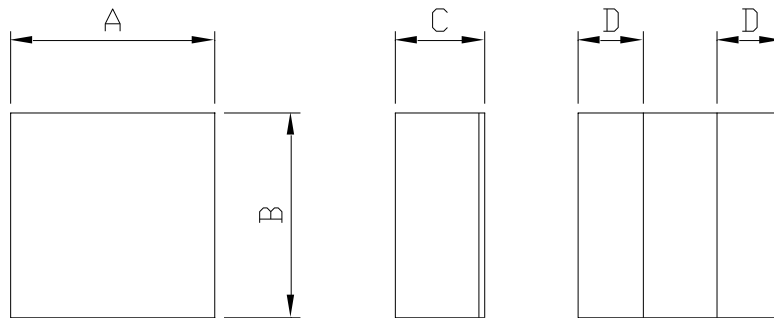
SEP	5420HS	—	100M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (2.0mm max. height) and 5.4X5.1 mm max. square.
- Excellent current handling – up to 6.6A; Exceptionally low DCR – only 16.8 mOhms
- Inductance range: 1.0 μ H – 10 μ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation .

SHAPES AND DIMENSIONS :

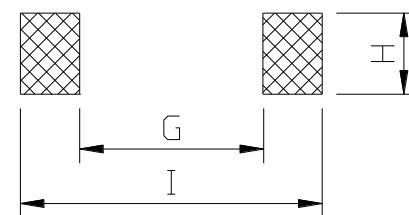
UNIT : mm



A=5.4±0.25 B=5.1±0.25 C=2.00 Max. D=1.5±0.25

RECOMMENDED PATTERNS

UNIT : mm



H=5.6 G= 2.2 I = 5.8



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	I _{sat} (A) (Typ.)	I _{rms} (A) (Typ.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP5420HS-1R0M-LF	1.00 \pm 20%	6.80	5.10	14.0	16.8
SEP5420HS-2R2M-LF	2.20 \pm 20%	5.00	4.10	24.0	28.0
SEP5420HS-3R3M-LF	3.30 \pm 20%	4.20	3.70	33.0	40.0
SEP5420HS-4R7M-LF	4.70 \pm 20%	3.90	2.00	50.0	60.0
SEP5420HS-6R8M-LF	6.80 \pm 20%	3.00	2.60	70.0	84.0
SEP5420HS-100M-LF	10.0 \pm 20%	2.40	2.10	110	132

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