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

Email: sales@bec.co.uk
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SEP0302EB SERIES ~ High Current Power Inductors

PART NUMBERING SYSTEM

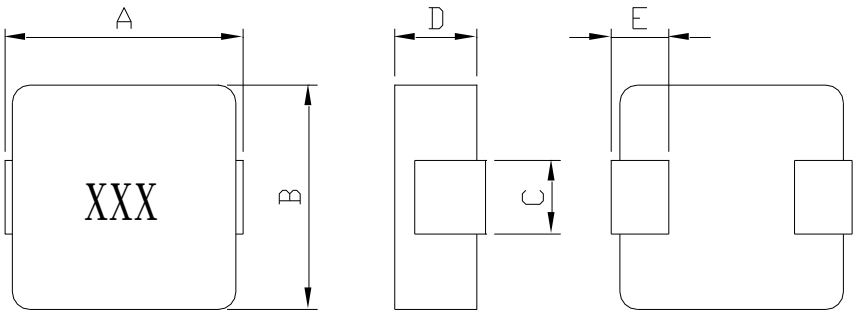
SEP	0302EB	–	1R0M	–	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Ultra-low profiles of 2.0 mm and 1212 case size – 3.0 mm by 3.6 mm footprint.
- High frequency operation – up to 1 MHz for DC/DC converters .
- Standard inductance values from 0.47 µH through 10 µH .
- Saturation current from 1.6 A to 9.0 A
- Large current handling capability .

SHAPES AND DIMENSIONS :

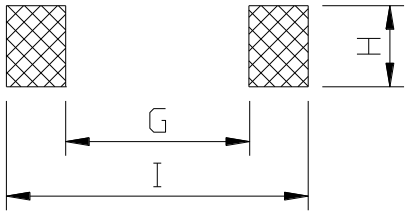
UNIT : mm



A=3.5±0.2 B=3.2±0.2 C=1.2±0.2 D=1.8±0.2 E=0.7±0.2

RECOMMENDED PATTERNS

UNIT : mm



H=1.4 G= 1.2 I = 4.2

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP0302EB-R47M-LF	0.47±20%	9.0	7.0	19.7	23.0
SEP0302EB-R68M-LF	0.68±20%	7.0	5.5	25.5	29.0
SEP0302EB-1R0M-LF	1.00±20%	5.0	4.0	32.0	38.0
SEP0302EB-1R5M-LF	1.50±20%	4.0	3.8	42.0	50.0
SEP0302EB-2R2M-LF	2.20±20%	3.7	3.5	65.0	75.0
SEP0302EB-3R3M-LF	3.30±20%	3.5	3.0	125	145
SEP0302EB-4R7M-LF	4.70±20%	3.0	2.6	172	200
SEP0302EB-5R6M-LF	5.60±20%	2.6	2.2	205	238
SEP0302EB-6R8M-LF	6.80±20%	2.2	1.9	260	300
SEP0302EB-8R2M-LF	8.20±20%	1.9	1.6	340	390
SEP0302EB-100M-LF	10.0±20%	1.6	1.4	366	422

- I sat : DC current at which the inductance drops 30% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 1V
- Operating temperature range -55℃ to +125℃ , Electrical specifications at 25℃.