



High Current Power Inductors - SEP4030EX SERIES



PART NUMBERING SYSTEM

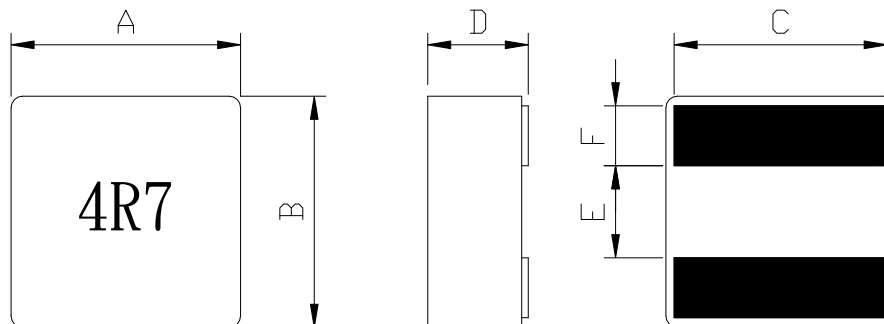
SEP	4030EX	—	3R3M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- High current and very low DCR
- Inductance range: 0.9 μ H – 6.8 μ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation with AEC-Q200 Grade 1 (–40°C to +125°C) .

SHAPES AND DIMENSIONS :

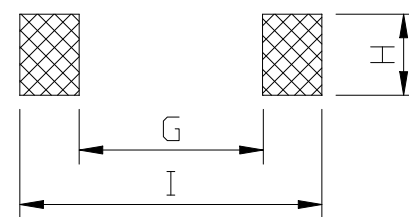
UNIT : mm



A=4.4±0.2 B=4.4±0.2 C=3.4±0.3 D=2.8±0.2 E=1.6±0.25 F= 0.88±0.2

RECOMMENDED PATTERNS

UNIT : mm



H=3.8 G= 1.4 I = 3.4



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) Typ.(Max.)	Irms (A)Typ. 20°C/40°C (Rise)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
SEP4030EX-R90M-LF	0.90±20%	10(9.0)	8.2(11.2)	9.10	10.1
SEP4030EX-1R0M-LF	1.00±20%	9.8(9.2)	8.0(11.0)	9.10	10.1
SEP4030EX-1R2M-LF	1.20±20%	9.2(8.7)	7.8(9.80)	10.4	11.5
SEP4030EX-1R5M-LF	1.50±20%	8.0(7.0)	7.0(9.00)	12.0	13.2
SEP4030EX-2R2M-LF	2.20±20%	7.0(6.1)	6.0(7.80)	20.5	22.6
SEP4030EX-3R3M-LF	3.30±20%	6.2(5.3)	5.0(6.60)	26.0	28.6
SEP4030EX-4R7M-LF	4.70±20%	5.5(4.8)	3.9(5.10)	40.1	44.1
SEP4030EX-6R8M-LF	6.80±20%	4.6(4.2)	3.1(4.00)	67.4	74.1

- Isat : DC current at which the inductance drops 30% (Max.) from its value without current.
- Irms : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.