



High Current Shielded Power Inductors - SEP6060EX SERIES



PART NUMBERING SYSTEM

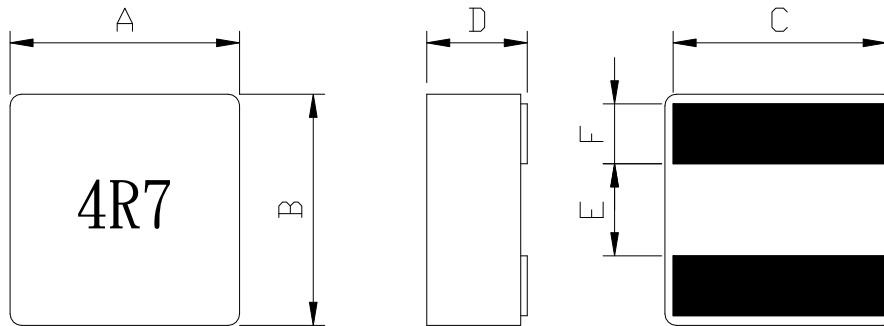
SEP	6060EX	—	8R2M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (6.1mm max. height) and 6.65 mm max. square.
- Excellent current handling – up to 10.5 A; Exceptionally low DCR – only 14.3 mOhms
- Inductance rage: 4.7 μ H – 15 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 :

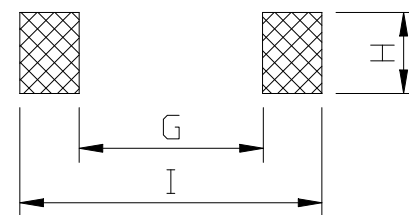
UNIT : mm



A=7.2±0.2 B=6.9±0.2 C=5.3±0.3 D=5.8±0.2 E=2.6±0.25 F= 1.4±0.2

RECOMMENDED PATTERNS

UNIT : mm



H=5.6 G= 2.5 I = 5.6

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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.(Max.)	DCR (mΩ) (Max.)
SEP6060EX-1R0M-LF	1.0±20%	18.0(16.0)	15.0(19.0)	3.90	4.29
SEP6060EX-1R5M-LF	1.5±20%	16.0(14.0)	13.0(16.0)	5.10	5.61
SEP6060EX-2R2M-LF	2.2±20%	14.0(12.0)	11.0(14.0)	7.00	7.80
SEP6060EX-3R3M-LF	3.3±20%	11.5(10.5)	9.00(12.0)	11.0	12.1
SEP6060EX-4R7M-LF	4.7±20%	10.5(9.50)	8.00(11.0)	13.1	14.4
SEP6060EX-5R6M-LF	5.6±20%	10.0(9.00)	7.50(10.0)	14.3	15.8
SEP6060EX-6R8M-LF	6.8±20%	9.20(8.70)	7.00(9.00)	18.9	20.8
SEP6060EX-8R2M-LF	8.2±20%	8.50(8.00)	6.00(8.00)	22.5	24.8
SEP6060EX-100M-LF	10±20%	7.60(6.80)	5.00(7.00)	26.6	29.3
SEP6060EX-150M-LF	15±20%	5.80(5.20)	4.50(6.00)	39.0	43.0
SEP6060EX-220M-LF	22±20%	5.60(5.00)	3.80(5.00)	55.0	60.5

- Isat : 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 100KHz / 1.0V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.