



SMD High Current Power Inductors - SEP5050EX SERIES



PART NUMBERING SYSTEM

SEP	5050EX	—	100M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

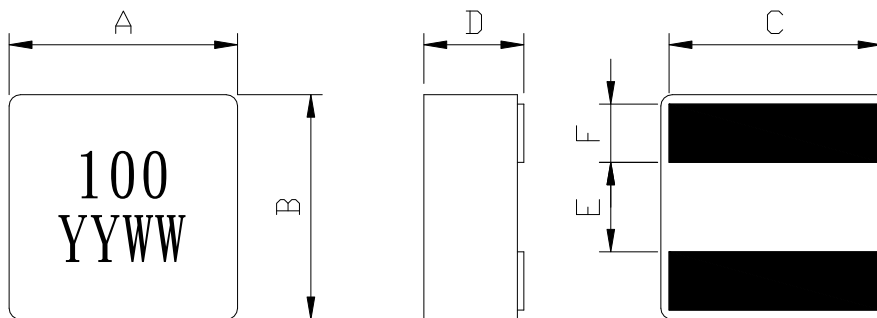
MATERIAL LIST :



NO	Items	Materials
1	Core	Alloy powder.
2	Wire	Polyester Wire or equ
3	Solder	100% Pb free solder
4	Ink	Halogen-free ketone

SHAPES AND DIMENSIONS :

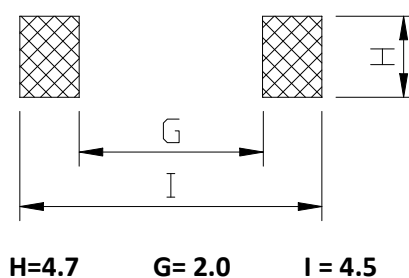
UNIT : mm



A=6.0±0.2 B=5.7±0.2 C=4.3±0.3 D=4.8±0.2 E=2.3±0.25 F= 1.1±0.2

RECOMMENDED PATTERNS

UNIT : mm



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FEATURES :

- Low profile (5.0mm max. height) and 6.00 mm max. square.
- Excellent current handling – up to 31 A; Exceptionally low DCR – only 2.15 mOhms
- Inductance range: 5.6 μ H – 22 μ H
- Magnetically shielded and low DC resistance and Suitable for large current .
- Excellent temperature stability for inductance and saturation .

SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) Typ.(Max.)	Irms (A)Typ. 20°C/40°C (Rise)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP5050EX-5R6M-LF	5.6 \pm 20%	8.60(7.20)	5.30(7.20)	22.0	24.2
SEP5050EX-6R8M-LF	6.8 \pm 20%	7.80(6.60)	4.80(6.40)	26.0	28.6
SEP5050EX-8R2M-LF	8.2 \pm 20%	7.20(6.10)	4.60(6.10)	29.5	32.5
SEP5050EX-100M-LF	10.0 \pm 20%	6.50(5.60)	3.80(5.00)	39.0	43.0
SEP5050EX-150M-LF	15.0 \pm 20%	5.50(4.40)	3.00(4.00)	60.0	66.0
SEP5050EX-220M-LF	22.0 \pm 20%	5.00(4.10)	2.50(3.40)	90.6	99.65

- Isat : 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 / 0.1V
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.
- Reel Qty 1,500pcs