

High Current SMT Power Inductors - SEP0803EC SERIES



PART NUMBERING SYSTEM

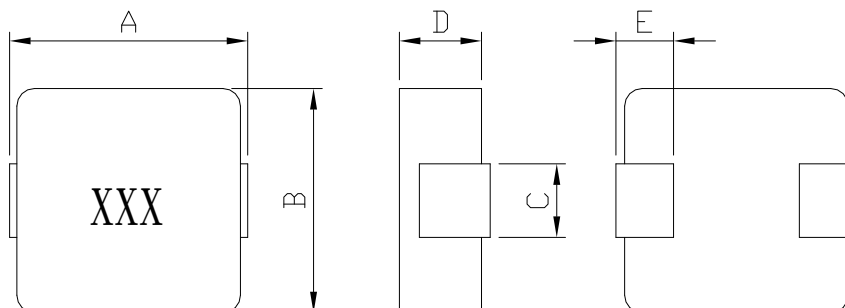
SEP	0803EC	—	6R8M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Magnetically High Current Power Inductors .
- Inductance range : 0.22uH to 33uH with DC Current up to 24A.
- Low profile (3.0mm max. height) with Halogen Free , 100% lead (Pb) Free and RoHS compliant .
- Low acoustic noise and low leakage flux noise by shielded construction .

SHAPES AND DIMENSIONS :

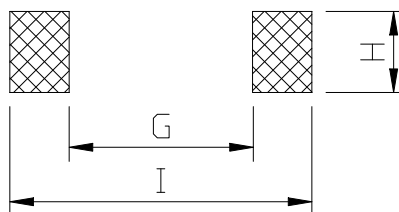
UNIT : mm



A=9.7±0.5 B=8.50 Max. C=3.0±0.5 D=3.0 Max. E=1.5±0.5

RECOMMENDED PATTERNS

UNIT : mm



H=5.33 Ref. G= 4.82 Ref. I = 9.65 Ref.

SEP0803EC SERIES~ High Current SMD Power Inductors



SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Max.)	Irms (A) (Typ.)	DCR (mΩ) (Max.)	TEST FREQ. (Freq.)
SEP0803EC-R22M-LF	0.22±20%	24.0	36.0	1.62	100KHz/0.25V
SEP0803EC-R33M-LF	0.33±20%	18.0	27.0	2.38	100KHz/0.25V
SEP0803EC-R47M-LF	0.47±20%	18.0	24.0	2.72	100KHz/0.25V
SEP0803EC-R68M-LF	0.68±20%	15.2	20.0	3.99	100KHz/0.25V
SEP0803EC-R82M-LF	0.82±20%	15.0	18.5	4.87	100KHz/0.25V
SEP0803EC-1R0M-LF	1.0±20%	14.8	16.0	4.49	100KHz/0.25V
SEP0803EC-1R5M-LF	1.5±20%	11.3	12.5	9.94	100KHz/0.25V
SEP0803EC-2R2M-LF	2.2±20%	10.4	10.4	14.7	100KHz/0.25V
SEP0803EC-4R7M-LF	4.7±20%	5.40	7.60	28.6	100KHz/0.25V
SEP0803EC-6R8M-LF	6.8±20%	5.00	6.50	37.8	100KHz/0.25V
SEP0803EC-8R2M-LF	8.2±20%	4.20	5.90	46.7	100KHz/0.25V
SEP0803EC-100M-LF	10±20%	3.80	5.30	55.1	100KHz/0.25V
SEP0803EC-150M-LF	15±20%	3.80	4.30	85.3	100KHz/0.25V
SEP0803EC-220M-LF	22±20%	2.80	3.60	132.0	100KHz/0.25V
SEP0803EC-330M-LF	33±20%	2.10	3.10	177.0	100KHz/0.25V

- Isat : DC current at which the inductance drops 20% (Max.) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -40°C to +120°C , Electrical specifications at 25°C.
- Packing : Tape & Reel (Reel Qty 1,000pcs)