



SEP0412E SERIES~ High Current SMD Power Inductors



PART NUMBERING SYSTEM

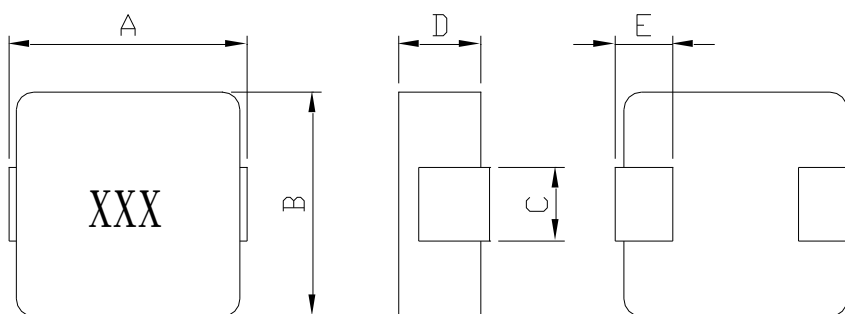
SEP	0412E	—	1R0M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- Low profile (1.2mm max. height) and 4.6 mm max. square.
- Magnetically shielded and low DC resistance and Suitable for large current .
- Ultra low buzz noise, due to composite construction .
- Frequency range up to 5MHZ .
- Large current handling capability .

SHAPES AND DIMENSIONS :

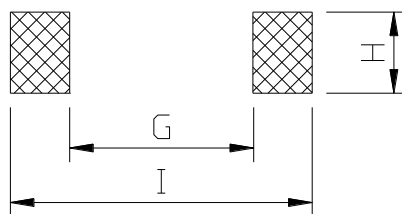
UNIT : mm



A=4.45±0.25 B=4.06±0.25 C=2.0±0.3 D=1.20 Max. E=0.76±0.3

RECOMMENDED PATTERNS

UNIT : mm



H=2.35 G=1.65 I = 4.95



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Max.)	Irms (A) (Max.)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
SEP0412E-R10M-LF	0.10 \pm 20%	15.0	10.0	9.0	11.0
SEP0412E-R22M-LF	0.22 \pm 20%	10.0	7.00	11.0	18.0
SEP0412E-R24M-LF	0.24 \pm 20%	11.5	7.50	11.0	15.0
SEP0412E-R33M-LF	0.33 \pm 20%	8.40	6.50	17.0	19.0
SEP0412E-R36M-LF	0.36 \pm 20%	7.80	6.40	18.0	20.0
SEP0412E-R47M-LF	0.47 \pm 20%	6.80	6.00	19.0	21.0
SEP0412E-R68M-LF	0.68 \pm 20%	6.00	4.50	32.0	36.0
SEP0412E-1R0M-LF	1.00 \pm 20%	5.20	4.20	43.0	47.0
SEP0412E-1R2M-LF	1.20 \pm 20%	5.10	4.00	43.0	55.0
SEP0412E-1R5M-LF	1.50 \pm 20%	4.00	3.25	68.0	75.0
SEP0412E-2R2M-LF	2.20 \pm 20%	3.50	2.75	79.4	83.5

- Test frequency at 100KHz/0.5V .
- I sat : 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.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.