



High Current SMD Power Inductors - SEP2313E SERIES



PART NUMBERING SYSTEM

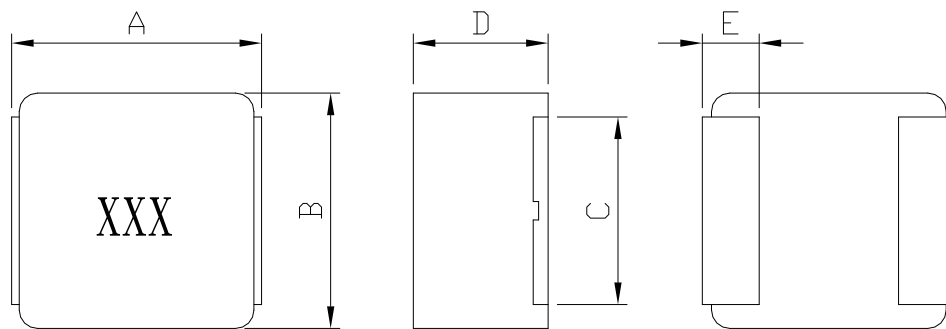
SEP	2313E	—	6R8M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

- * Magnetically Shielded construction .
- * Capable of corresponding high frequency
- * Low loss realized with low DCR
- * High performance (Isat) realized by metal dust core .
- * Ultra low buzz noise, due to composite construction .

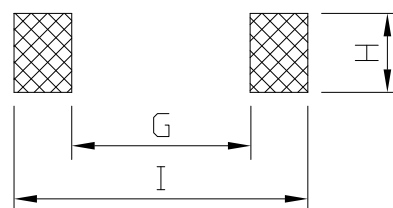
SHAPES AND DIMENSIONS :

UNIT : mm



A=23.5±0.5 B=22.0±0.3 C=19.0±0.3 D=12.6±0.4 E=5.0±0.4

RECOMMENDED PATTERNS



G=12.5 H= 19.6 I= 24.0



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μH)	Isat (A) (Max.)	Irms (A) (Δ t) 40°C (Max.)	DCR (mΩ) (Max.)	DCR (mΩ) (Typ.)	Test Freq. (KHz)
SEP2313E-1R5M-LF	1.50±20%	48.0	57.0	1.15	1.00	100KHz/1V
SEP2313E-2R2M-LF	2.20±20%	43.0	52.0	1.25	1.05	100KHz/1V
SEP2313E-3R3M-LF	3.30±20%	37.0	47.0	1.75	1.50	100KHz/1V
SEP2313E-4R7M-LF	4.70±20%	34.0	44.0	2.20	1.90	100KHz/1V
SEP2313E-6R8M-LF	6.80±20%	32.0	36.0	3.10	2.70	100KHz/1V
SEP2313E-100M-LF	10.0±20%	20.0	30.0	4.15	3.80	100KHz/1V
SEP2313E-220M-LF	22.0±20%	14.0	18.0	11.0	9.20	100KHz/1V
SEP2313E-230M-LF	23.0±20%	14.0	18.0	11.0	9.20	100KHz/1V
SEP2313E-330M-LF	33.0±20%	10.5	16.0	15.4	13.5	100KHz/1V
SEP2313E-470M-LF	47.0±20%	10.0	14.0	20.8	17.3	100KHz/1V
SEP2313E-680M-LF	68.0±20%	9.00	12.0	29.5	26.2	100KHz/1V
SEP2313E-750M-LF	75.0±20%	8.50	11.0	31.6	27.5	100KHz/1V
SEP2313E-820M-LF	82.0±20%	7.70	10.0	34.2	31.0	100KHz/1V
SEP2313E-101M-LF	100.0±20%	7.50	9.50	40.0	36.0	100KHz/1V

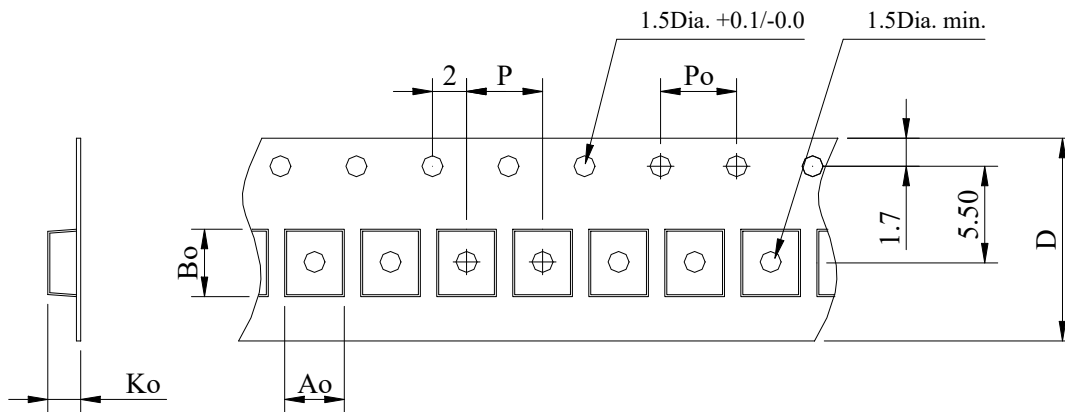
- Operating temperature -40~+125°C(Including self - temperature rise)
- I sat : DC current (A) that will cause L0 to drop approximately 30 %
- I rms : DC current (A) that will cause an approximate ΔT of 40 °C
- The part temperature (ambient + temp rise) should not exceed 155 under worst case operating conditions °C .Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



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PACKAGING SPECIFICATION



STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)					
		A_o	B_o	K_o	P	P_o	D
13"	80	23 ± 0.1	25 ± 0.1	13.6 ± 0.1	32 ± 0.1	4.0	44 ± 0.3