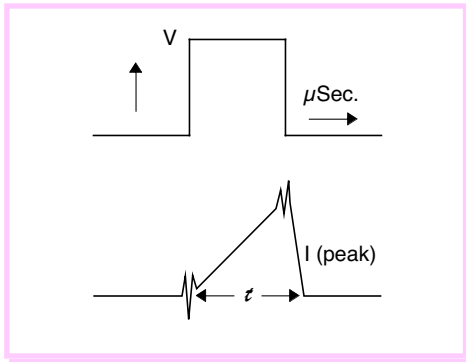


# Surface Mount Power Inductor

## EPI D Series



### Features of the EPI "D" Series of SMT Power Inductors

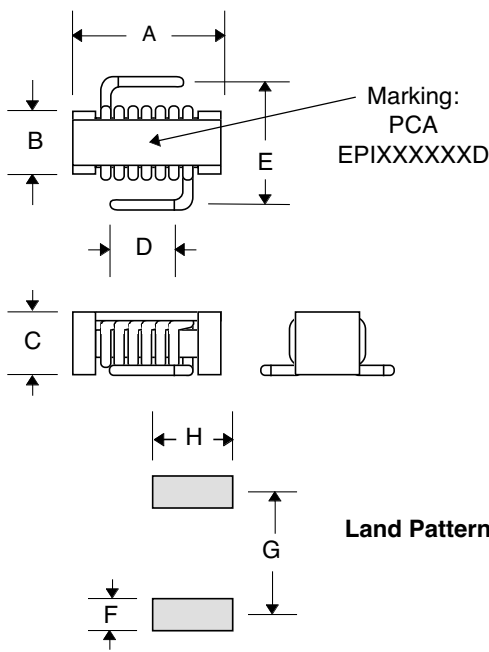
- Virtually no limit on  $V \mu\text{Sec}$  as long as max. RMS Current Limit and Temperature Rise Limit are not exceeded
- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Low cost Robust construction to withstand most SMT processes
- Also suitable for use in high quality filter applications

### Primary Specification

Part Number	Inductance @ 0 Adc	DCR ( $\Omega$ Typ.)
EPI1L0303D	$1.0 \pm 25\%$	.0017
EPI1L5253D	$1.5 \pm 25\%$	.002
EPI2L2203D	$2.2 \pm 25\%$	.003
EPI3L3173D	$3.3 \pm 15\%$	.004
EPI3L9153D	$3.9 \pm 15\%$	.005
EPI4L7133D	$4.7 \pm 15\%$	.007
EPI6L6123D	$6.6 \pm 15\%$	.010
EPI7L8113D	$7.8 \pm 15\%$	.013
EPI100103D	$10.0 \pm 15\%$	.019
EPI150802D	$15.0 \pm 15\%$	.028

Inductance ( $\mu\text{H}$ Min.) (@ I sat)	I Saturation (Amperes)	I rms (Amperes)
0.83	30	15.0
1.26	25	15.0
1.98	20	12.0
2.80	17	10.0
3.51	15	9.0
4.23	13	8.4
5.94	12	7.5
6.63	11	7.5
9.0	10	6.0
13.5	8	4.4

### Package D



### Dimensions

Dim.	(Inches)			(Millimeters)		
	Min.	Max.	Nom.	Min.	Max.	Nom.
A	.732	.764	.748	18.60	19.40	19.00
B	.309	.325	.317	7.85	8.25	8.05
C	.309	.327	.317	7.85	8.31	8.05
D	---	---	.340	---	---	8.64
E	---	---	.690	---	---	17.53
F	---	---	.125	---	---	3.18
G	---	---	.690	---	---	17.52
H	---	---	.340	---	---	8.64

### Note :

1. Temperature Rise :  $15^{\circ}\text{C}$  Typ.
2. Inductance Change at I Saturation : 10% Max.