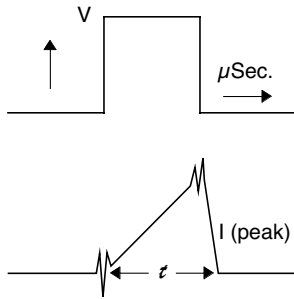


Surface Mount Power Inductor

EPI F5050 Series



Features of the EPI "F5050" Series of Miniature SMT Power Inductors

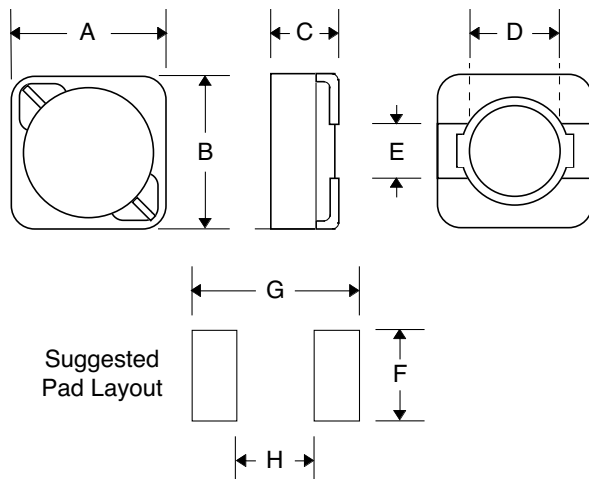
- Virtually no limit on V μ Sec as long as max. RMS Current Limit and Temperature Rise Limit are not exceeded
- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Low cost Robust construction to withstand most SMT processes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

Primary Specification

Part Number	Inductance (μ H $\pm$ 20%) @ 0 Adc	DCR (Ω Max.)
EPI1L0173F5050	1.05	.0055
EPI1L9133F5050	1.9	.0075
EPI2L8103F5050	2.8	.0098
EPI3L3912F5050	3.3	.0096
EPI4L7782F5050	4.7	.0155
EPI6L8662F5050	6.8	.022
EPI100542F5050	10	.033
EPI150442F5050	15	.044
EPI220372F5050	22	.061
EPI330292F5050	33	.090
EPI470242F5050	47	.148
EPI680202F5050	68	.166
EPI101172F5050	100	.262
EPI151132F5050	150	.410
EPI221112F5050	220	.557
EPI331901F5050	330	.880
EPI471801F5050	470	1.23
EPI681601F5050	680	1.66
EPI102501F5050	1000	2.68

IDC (A)	I rms (A Max.)
17.7	12.2
12.9	9.6
10.5	8.1
9.1	7.6
7.8	6.5
6.6	5.1
5.4	4.3
4.4	3.6
3.7	3.3
2.9	2.5
2.4	2.1
2.0	1.8
1.7	1.4
1.3	1.2
1.1	1.0
0.9	0.9
0.8	0.7
0.6	0.6
0.5	0.5

Package F5050



Dimensions

Dim.	(Inches)			(Millimeters)		
	Min.	Max.	Nom.	Min.	Max.	Nom.
A	---	.515	---	---	13.08	---
B	---	.515	---	---	13.08	---
C	---	.197	---	---	5.00	---
D	---	---	.366	---	---	9.30
E	---	---	.181	---	---	4.60
F	---	---	.220	---	---	5.60
G	---	---	.539	---	---	13.70
H	---	---	.406	---	---	10.30

Note :

1. Temperature Rise : 50°C Typ. @ I rms
2. Inductance Change at Idc : 10% Typ.