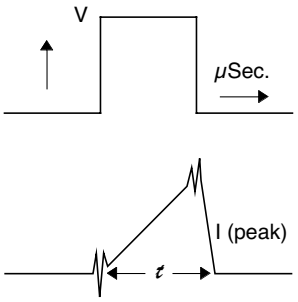
PCA ELECTRONICS INC.

Miniature SMT Power Inductor
EPI F1210 Series



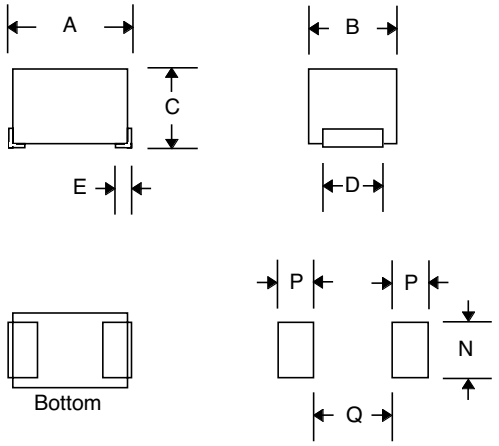
Features of the EPI "F1210" Series of Miniature SMT Power Inductors

- Virtually no limit on V μSec 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 (μH) @ 0 Adc	DCR (Ω Max.)	Inductance (μH Min.) @ I Sat.	I Saturation (mA) Based on 10% Inductance change	I rms (mA Max.)	SRF (MHz Typ.)
EPI1L0501F1210	1.0 ± 20%	0.08	0.8	500	1250	145
EPI1L5401F1210	1.5 ± 20%	0.10	1.2	400	1100	100
EPI2L2341F1210	2.2 ± 20%	0.12	1.76	340	1000	85
EPI3L3271F1210	3.3 ± 20%	0.14	2.64	270	900	70
EPI4L7240F1210	4.7 ± 20%	0.17	3.76	240	850	50
EPI6L8191F1210	6.8 ± 20%	0.22	5.44	190	750	45
EPI100161F1210	10 ± 10%	0.34	9.0	160	650	35
EPI150141F1210	15 ± 10%	0.42	13.5	140	550	30
EPI220111F1210	22 ± 10%	0.65	19.8	110	450	20
EPI330950F1210	33 ± 10%	0.98	29.7	95	360	18
EPI470850F1210	47 ± 10%	1.24	42.3	85	320	16
EPI680700F1210	68 ± 10%	1.95	61.2	70	260	12
EPI101550F1210	100 ± 10%	3.35	90	55	200	11
EPI151450F1210	150 ± 10%	4.15	135	45	170	8
EPI221350F1210	220 ± 10%	7.00	198	35	130	7
EPI331300F1210	330 ± 10%	9.1	297	30	110	5
EPI471250F1210	470 ± 10%	20.8	423	25	79	4
EPI681200F1210	680 ± 10%	26.0	612	20	70	3
EPI102150F1210	1000 ± 10%	31.2	900	15	63	2

Package



Dimensions

Dim.	(Inches) Min.	Max.	Nom.	(Millimeters) Min.	Max.	Nom.
A	.118	.134	.126	3.0	3.4	3.2
B	.090	.106	.098	2.3	2.7	2.5
C	.079	.094	.087	2.0	2.4	2.2
D	.071	.079	.075	1.8	2.0	1.9
E	---	---	.016	---	---	0.4
N	---	---	.079	---	---	2.0
P	---	---	.039	---	---	1.0
Q	---	---	.079	---	---	2.0

Note :
1. Temperature Rise : 20°C Typ.
2. Inductance Change at I Saturation : 10% Max.

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