Surface Mount Power Inductor

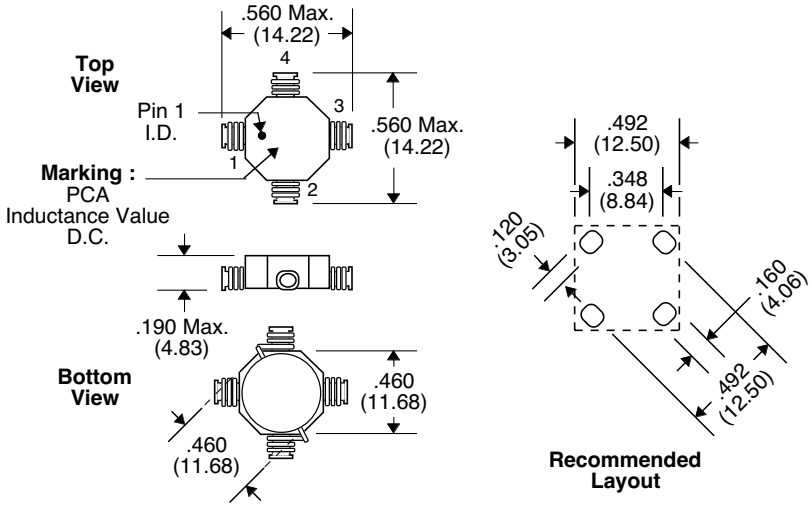
EPI KSP56L Series

- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor, coupled inductor or flyback transformer
- Low cost robust construction to withstand most SMT processes
- Also suitable for use in high quality filter applications
- Very low core loss ferrite materials
- Low Profile version

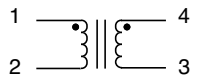
Primary Specification

Part Number	Connection	Inductance (μH ± 15%) @ 0 Adc	Inductance (μH ± 15%) @ Idc	DCR (Ω Typ.)	I dc (Amps)	ET (V-μSec.) @ 200 KHz
EPI0L3153KSP56L	Series	1.35	1.22	.0064	7.5	5.1
	Parallel	.34	.31	.0016	15.0	2.55
EPI0L7103KSP56L	Series	3.03	2.73	.0124	5.3	7.6
	Parallel	.76	.69	.0031	10.6	3.8
EPI1L0912KSP56L	Series	4.12	3.71	.018	4.55	8.9
	Parallel	1.03	.93	.0045	9.1	4.45
EPI2L1642KSP56L	Series	8.4	7.6	.0296	3.2	12.8
	Parallel	2.1	1.9	.0074	6.4	6.4
EPI3L5492KSP56L	Series	14.2	12.8	.048	2.46	16.6
	Parallel	3.55	3.2	.012	4.92	8.3
EPI4L7422KSP56L	Series	18.9	17.0	.056	2.13	19.2
	Parallel	4.7	4.3	.014	4.26	9.6
EPI6L8352KSP56L	Series	27.2	24.5	.080	1.75	23.0
	Parallel	6.8	6.1	.020	3.5	11.5
EPI8L4322KSP56L	Series	33.6	30.2	.092	6.4	25.4
	Parallel	8.4	7.6	.023	3.2	12.7
EPI100292KSP56L	Series	40.7	36.6	.116	1.45	28.0
	Parallel	10.2	9.2	.029	2.9	14.0

Package KSP56L



Schematic



Unless Otherwise Specified Dimensions are in Inches /mm ± .010 /.25

PCA ELECTRONICS, INC.
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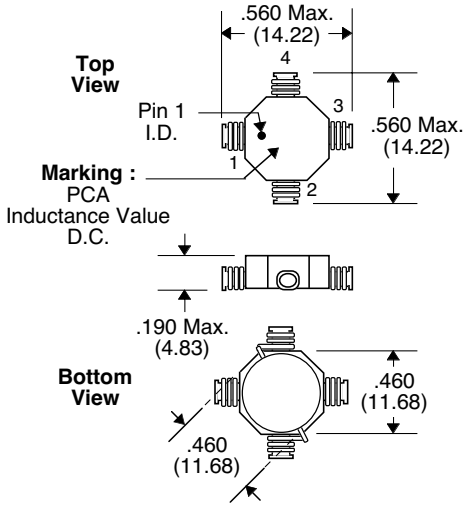
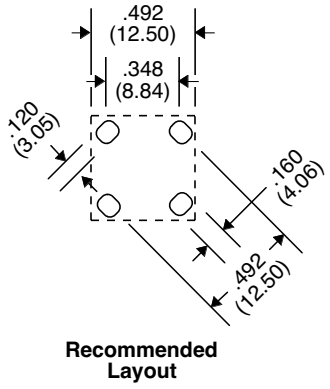
EPI120262KSP56L	Series	48.4	43.6	.128	1.33	30.6
	Parallel	12.1	10.9	.032	2.66	15.3
EPI150232KSP56L	Series	61.2	55.1	.144	1.18	34.4
	Parallel	15.3	13.8	.036	2.36	17.2
EPI200202KSP56L	Series	80.7	72.7	.216	1.03	39.6
	Parallel	20.2	18.2	.054	2.06	19.8
EPI220192KSP56L	Series	91.5	82.3	.228	.97	42.2
	Parallel	22.9	20.6	.057	1.94	21.1
EPI250182KSP56L	Series	102.9	92.6	.300	.91	44.6
	Parallel	25.7	23.2	.075	1.82	22.3
EPI330162KSP56L	Series	134.4	121.0	.340	.80	51.0
	Parallel	33.6	30.2	.085	1.6	25.5
EPI500132KSP56L	Series	201.7	181.5	.520	.65	62.6
	Parallel	50.4	45.4	.130	1.3	31.3
EPI680112KSP56L	Series	272.9	245.6	.776	.56	73.0
	Parallel	68.2	61.4	.194	1.12	36.5
EPI101921KSP56L	Series	400.0	360.0	1.184	.46	88.2
	Parallel	100.0	90.0	.296	.92	44.1
EPI151751KSP56L	Series	606.9	546.2	1.804	.375	108.8
	Parallel	151.7	136.6	.451	.75	54.4
EPI201651KSP56L	Series	806.7	726.1	2.08	.325	125.0
	Parallel	201.7	181.5	.520	.65	62.5
EPI301531KSP56L	Series	1209.6	1088.6	3.24	.265	153.0
	Parallel	302.4	272.2	.81	.53	76.5

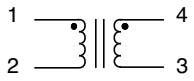
Package KSP56L





Recommended Layout

Schematic



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CSIXXXXXXKSP56Lb Rev. - 10/6/03 FT

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