

EPI AC3 Series



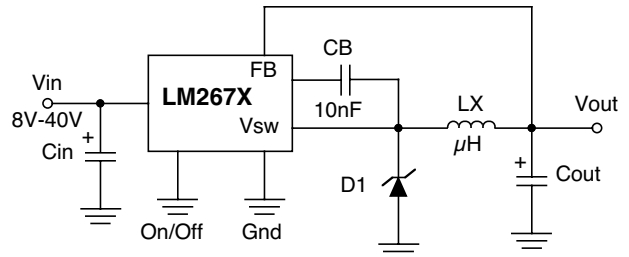
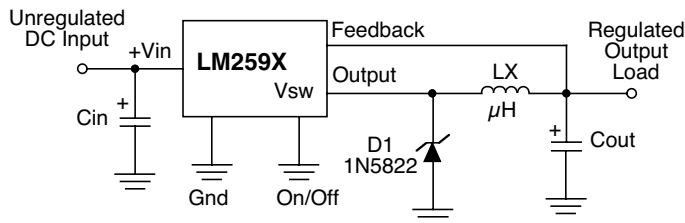
- Optimized for National's LM267X & LM259X Series
- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Also suitable for use in high quality filter applications
- 150 KHz & 500 KHz Switching Frequency
- Low Cost Inductor

Primary Specification

Part Number	National Semiconductor Chip	Induct. ($\mu\text{H} \pm 20\%$) @ 0 Adc	DCR (Ω Typ.)	Induct. ($\mu\text{H} 15\%$) @ Idc	Idc (mA)	Core Loss @ Vt1 (mW)	Core Loss @ Vt2 (mW)	Vt1 (V- μSec) 150 KHz	Vt2 (V- μSec) 260 KHz	Temp.Rise @ Vt1 $^{\circ}\text{C}$ (Typ.)	Temp.Rise @ Vt2 $^{\circ}\text{C}$ (Typ.)
EPI220502AC3	LM267X-L41	27	0.025	22	5000	---	290	---	23.1	---	35
	LM267X-L50	27	0.025	22	5000	---	290	---	23.1	---	35
EPI330402AC3	LM267X-L40	40	0.038	33	4000	---	260	---	27.0	---	34
EPI330352AC3	LM259X-L40	38	0.046	33	3500	210	---	33.4	---	31	---
EPI470352AC3	LM259X-L39	60	0.074	47	3500	185	---	40.0	---	42	---
	LM267X-L39	60	0.074	47	3500	---	185	---	28.5	---	42
EPI680302AC3	LM259X-L38	87	0.090	68	3000	155	---	46.7	---	37	---
	LM267X-L38	87	0.090	68	3000	---	155	---	30.8	---	37
EPI680352AC3	LM267X-L44	91	0.091	68	3500	45	---	26.7	---	43	---
	LM259X-L44	91	0.091	68	3500	---	60	---	12.7	---	44
EPI101252AC3	LM259X-L37	128	0.110	100	2500	155	---	55.4	---	33	---
EPI151202AC3	LM259X-L36	194	0.260	150	2000	113	---	56.7	---	43	---
EPI221152AC3	LM259X-L35	265	0.394	220	1500	134	---	73.4	---	39	---

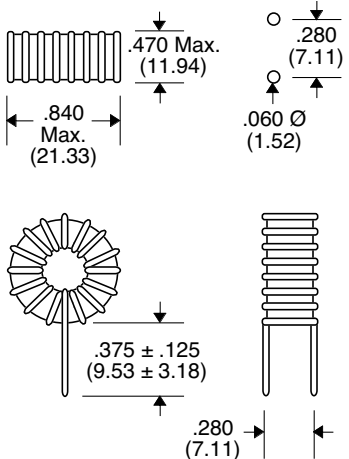
For no header version : add "V" for Vertical Mount and add "H" for Horizontal Mount

Applications



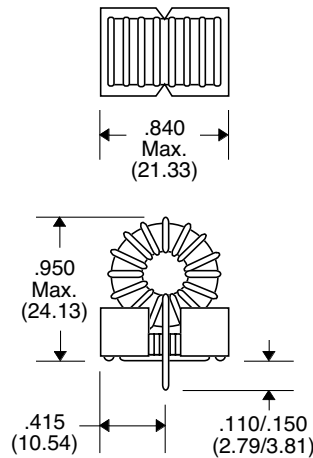
Package AC3V

Pad Layout



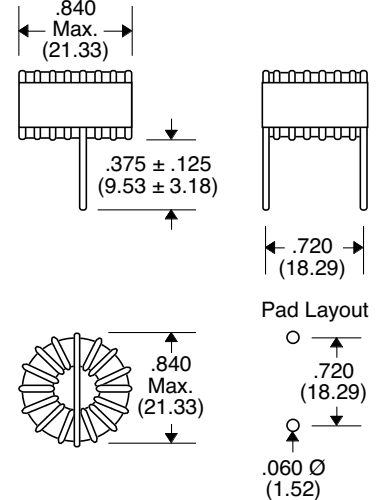
Package AC3

Pad Layout



Package AC3H

Pad Layout



Unless Otherwise Specified Dimensions are in Inches /mm $\pm .010 / .25$