

## EPI AC4 Series



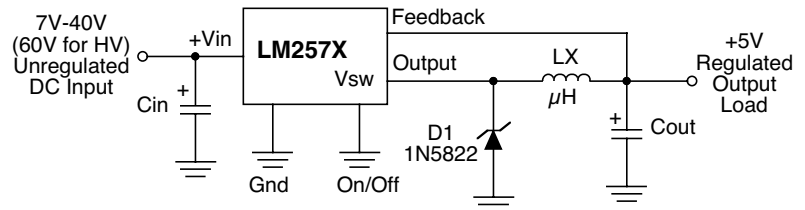
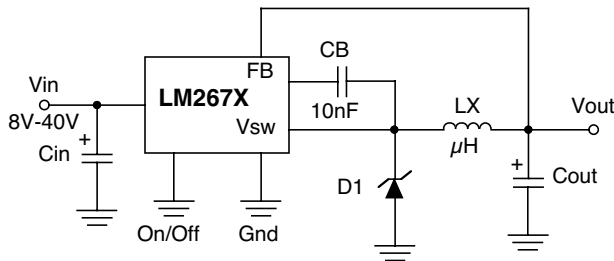
- Optimized for National's LM267X, LM259X & LM257X Series
- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- 52 KHz, 150 KHz & 260 KHz Switching Frequency
- Also suitable for use in high quality filter applications
- Low Cost Inductor

### Primary Specification

| Part Number  | National Semiconductor Chip | Induct. ( $\mu\text{H} \pm 15\%$ ) @ 0 Adc | DCR ( $\Omega$ Typ.) | Induct. ( $\mu\text{H} 15\%$ ) @ Idc | Idc (mA) | Core Loss  |            |            | Vt1 (V- $\mu\text{sec}$ ) 150 KHz | Vt2 (V- $\mu\text{sec}$ ) 260 KHz | Vt3 (V- $\mu\text{sec}$ ) 52 KHz | Temp. Rise @ Vt $^{\circ}\text{C}$ (Typ.) |
|--------------|-----------------------------|--------------------------------------------|----------------------|--------------------------------------|----------|------------|------------|------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------------------------------|
|              |                             |                                            |                      |                                      |          | @ Vt1 (mW) | @ Vt2 (mW) | @ Vt3 (mW) |                                   |                                   |                                  |                                           |
| EPI330552AC4 | LM267X-L49                  | 42                                         | .027                 | 33                                   | 5500     | ---        | 445        | ---        | ---                               | 36.6                              | ---                              | 34 @ Vt2                                  |
| EPI470552AC4 | LM267X-L48                  | 64                                         | .042                 | 47                                   | 5500     | ---        | 380        | ---        | ---                               | 42.4                              | ---                              | 42 @ Vt2                                  |
| EPI680302AC4 | LM257X-L68                  | 78                                         | .061                 | 68                                   | 3000     | ---        | ---        | 300        | ---                               | ---                               | 96.2                             | 24 @ Vt3                                  |
| EPI101302AC4 | LM257X-100                  | 121                                        | .093                 | 100                                  | 3000     | ---        | ---        | 180        | ---                               | ---                               | 96.2                             | 28 @ Vt3                                  |
| EPI101342AC4 | LM257X-L43                  | 130                                        | .125                 | 100                                  | 3400     | 320        | ---        | ---        | 81.4                              | ---                               | ---                              | 44 @ Vt1                                  |
| EPI151202AC4 | LM257X-L150                 | 173                                        | .144                 | 150                                  | 2000     | ---        | ---        | 125        | ---                               | ---                               | 96.2                             | 24 @ Vt3                                  |
| EPI151272AC4 | LM259X-L42                  | 196                                        | .188                 | 150                                  | 2700     | 320        | ---        | ---        | 90.7                              | ---                               | ---                              | 43 @ Vt1                                  |
| EPI151302AC4 | LM257X-H150                 | 202                                        | .191                 | 150                                  | 3000     | ---        | ---        | 550        | ---                               | ---                               | 207.7                            | 55 @ Vt3                                  |
| EPI471102AC4 | LM257X-L470                 | 493                                        | .754                 | 470                                  | 1000     | ---        | ---        | 213        | ---                               | ---                               | 207.7                            | 27 @ Vt3                                  |

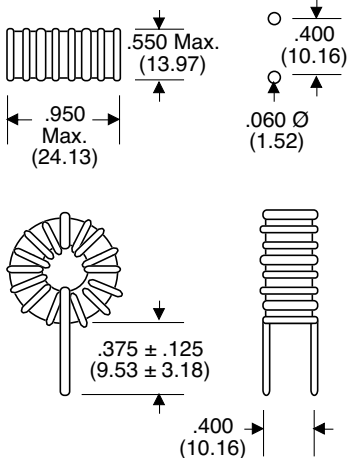
For no header version : add "V" for Vertical Mount and add "H" for Horizontal Mount

### Applications



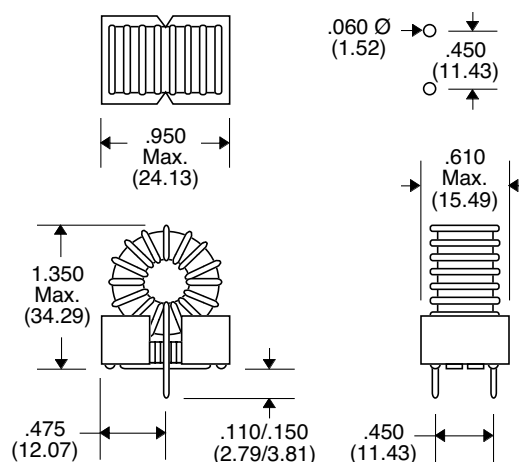
### Package AC4V

#### Pad Layout

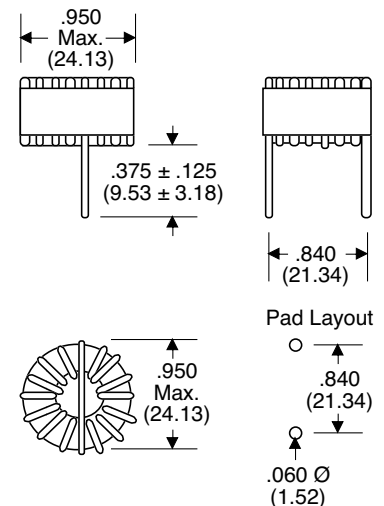


### Package AC4

#### Pad Layout



### Package AC4H



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