

EPI B20 Series

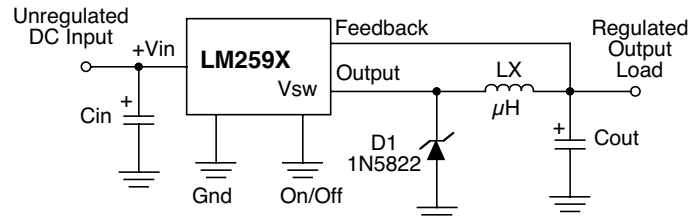


- Optimized for National's LM259X Series
- Low loss material ensures operation in high frequency switching converters, such as Buck, Boost or as output averaging filter inductor
- Also suitable for use in high quality filter applications
- 150 KHz & 500 KHz Switching Frequency
- Low Cost Inductor

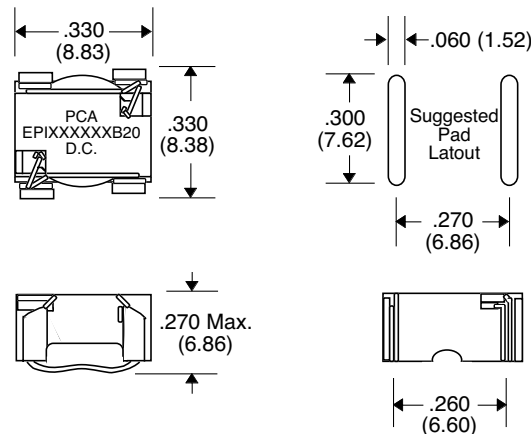
Primary Specification

| 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.) |
|--------------|-----------------------------|--|----------------------|--------------------------------------|----------|----------------------|----------------------|-----------------------------------|-----------------------------------|---|---|
| EPI1L0342B20 | --- | 1.05 | .011 | 0.9 | 3400 | --- | 6.5 | --- | 0.5 | --- | 54 |
| EPI4L7122B20 | --- | 5.2 | .051 | 4.7 | 1200 | --- | 23.4 | --- | 2.0 | --- | 40 |
| EPI6L8951B20 | --- | 7.5 | .061 | 6.8 | 950 | --- | 23.4 | --- | 2.4 | --- | 34 |
| EPI100801B20 | --- | 10.9 | .094 | 10 | 800 | --- | 23.4 | --- | 3.0 | --- | 35 |
| EPI150701B20 | --- | 16.8 | .148 | 15 | 700 | --- | 23.4 | --- | 3.6 | --- | 40 |
| EPI220601B20 | LM259X-L7 | 25 | .224 | 22 | 600 | 23.4 | --- | 6.6 | --- | 42 | --- |
| EPI330441B20 | LM259X-L6 | 36.5 | .343 | 33 | 440 | 23.4 | --- | 8.0 | --- | 38 | --- |
| EPI470371B20 | LM259X-L5 | 51.6 | .408 | 47 | 370 | 23.4 | --- | 9.3 | --- | 34 | --- |
| EPI680321B20 | LM259X-L4 | 75 | .625 | 68 | 320 | 23.4 | --- | 11.3 | --- | 37 | --- |
| EPI101261B20 | LM259X-L3 | 110 | .958 | 100 | 260 | 23.4 | --- | 14 | --- | 37 | --- |
| EPI151211B20 | LM259X-L2 | 166 | 1.476 | 150 | 210 | 23.4 | --- | 17 | --- | 37 | --- |
| EPI221181B20 | LM259X-L1 | 248 | 2.225 | 220 | 180 | 23.4 | --- | 20.6 | --- | 40 | --- |

Application



Package B20



Note: Coplanarity within .005" Max.

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