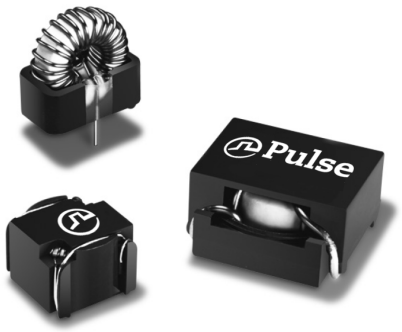
# THT/SMT Power Inductors

*Toroid - Designed for National's 260kHz Simple Switcher™*




- *Tested and recommended by National Semiconductor for the LM267X series*
- *Base material meets flammability requirements of UL94V-0*
- *Available in surface mount and through hole versions*

| Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C[7] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pulse[5] THT Part Number | Pulse[4,5] SMT Part Number | National Part Number | In Circuit Operating Parameters[1] | | | Nominal DCR (Ω) | Package | | |
| | | | Nominal Inductance (µH) | Rated Current ($A_{DC}$) | Max[2] ETop (V-µsec) | | Through Hole | Surface Mount | Lead Diameter |
| **P0841NL** | - | LM267X-41 | 22.8 | 4.9 | 23.3 | .036 | KM-3.0 | - | .035 |
| **P0845NL** | - | LM267X-45 | 10.2 | 4.3 | 10.0 | .026 | KM-1.1 | - | .031 |
| **P0846NL** | - | LM267X-46 | 14.8 | 5.0 | 17.0 | .023 | KM-2.1 | - | .035 |
| **P0847NL** | - | LM267X-47 | 10 | 5.0 | 13.0 | .025 | KM-2.0 | - | .031 |
| **P0848NL** | - | LM267X-48 | 50 | 5.0 | 40.0 | .050 | KM-4.0 | - | .039 |
| **P0849NL** | - | LM267X-49 | 33 | 5.0 | 36.0 | .047 | KM-4.0 | - | .035 |
| **P0850NL** | - | LM267X-50 | 23 | 5.0 | 24.0 | .026 | KM-3.0 | - | .043 |
| - | **P0841SNL** | LM267X-41 | 22.8 | 4.9 | 23.3 | .036 | - | HCI-68 | - |
| - | **P0845SNL** | LM267X-45 | 10 | 4.3 | 10.0 | .050 | - | LCI-44 | - |
| - | **P0846SNL** | LM267X-46 | 15 | 5.0 | 17.0 | .027 | - | LCI-50 | - |
| - | **P0847SNL** | LM267X-47 | 11 | 5.0 | 13.0 | .025 | - | LCI-50 | - |
| - | **P0848SNL** | LM267X-48 | 52[6] | 5.0 | 40.0 | .025 | - | Bigfoot | |
| - | **P0849SNL** | LM267X-49 | 36[6] | 5.0 | 36.0 | .019 | - | Bigfoot | - |
| - | **P0850SNL** | LM267X-50 | 24.7[6] | 5.0 | 24.0 | .013 | - | Bigfoot | - |

**Notes:**

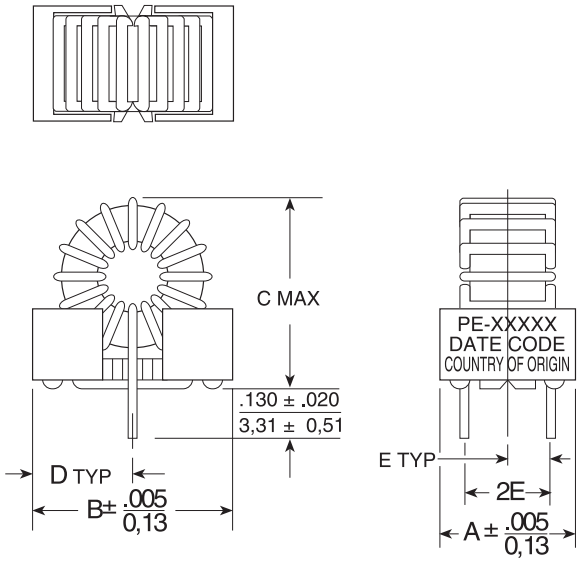
1. Inductance values may vary ±20%.
2. ETop rated at 260kHz.
3. SIMPLE SWITCHER™ is a trademark of National Semiconductor Corporation.
4. For SMT parts, optional Tape & Reel packaging can be ordered by addin a "T" suffix to the part number( i.e. P0841SNL becomes P0841SNLT). Pulse complies to industry standard tape and reel specification EIA481.
5. The "**NL**" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necesssarily RoHS-compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "**NL**" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
6. Series connection (pins 2-4 connected)
7. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.



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## Mechanicals

### KlipMount™ Series

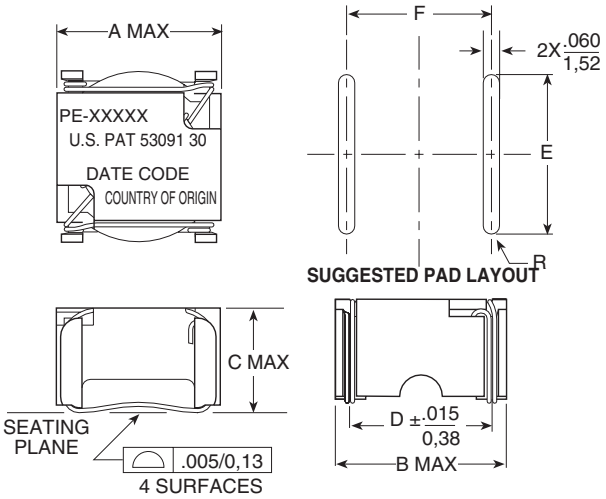



| PKG | A | B | C | D | E |
|---|---|---|---|---|---|
| KM-1.1 | .350<br>8,89 | .580<br>14,74 | .715<br>18,17 | .290<br>7,37 | .110<br>2,80 |
| KM-2.0 | .450<br>11,43 | .650<br>21,08 | .700<br>17,78 | .325<br>8,26 | .150<br>3,81 |
| KM-2.1 | .460<br>11,69 | .670<br>17,02 | .750<br>19,05 | .335<br>8,51 | .150<br>3,81 |
| KM-3.0 | .450<br>11,43 | .830<br>21,09 | .950<br>24,13 | .415<br>10,55 | .150<br>3,81 |
| KM-4.0 | .600<br>15,24 | .950<br>24,13 | 1.350<br>34,29 | .475<br>12,07 | .225<br>5,72 |

**Dimensions:** Inches / mm
Unless otherwise specified,
all tolerances are: ± .010 / 0,25

## Mechanicals

### LCI Series




| PKG | A | B | C | D | F | G |
|---|---|---|---|---|---|---|
| LCI-44 | .600<br>15,24 | .620<br>15,75 | .390<br>9,91 | .500<br>12,70 | .550<br>13,97 | .510<br>12,95 |
| LCI-50 | .670<br>17,02 | .700<br>17,78 | .390<br>9,91 | .580<br>14,74 | .620<br>15,75 | .590<br>14,99 |

**Notes:**
1. Dimension "D" is measured across terminal blocks only.
2. Coil must clear seating plane by .010 / 0,25 MIN

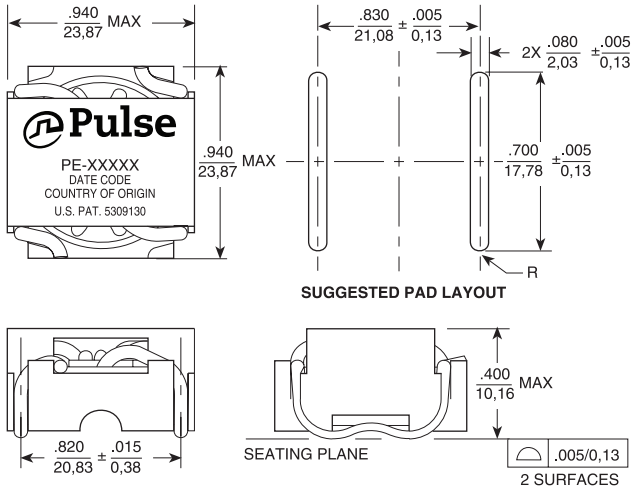
| | LCI-44 | LCI-50 |
|---|---|---|
| **Weight** | 3.6 grams | 4.8 grams |
| **Tape & Reel** | 200/reel | 200/reel |
| **Tube** | 30/tube | 30/tube |




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## Mechanicals

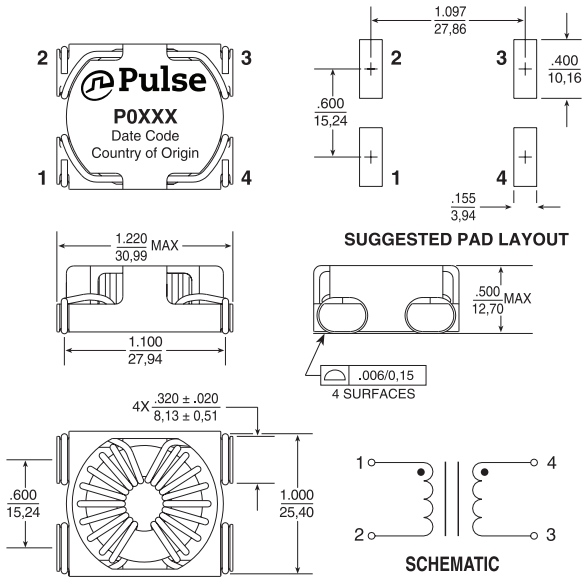
### HCI-68




**Weight** ..... 12.1 grams
**Tape & Reel** .....100/reel
**Tube** .....40/tube

## Mechanicals/Schematic

### Bigfoot




**Weight** .....18grams
**Tape & Reel** .....20/reel
**Tube** .....75/tube

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