

# SMT Power Inductors

Unshielded Drum Core - P0751NL/52NL Series



-  **Height:** 5.5mm Max
-  **Footprint:** 13.0mm x 9.4mm Max
-  **Current Rating:** up to 6.8A
-  **Inductance Range:** 1.0μH to 1000μH

## Electrical Specifications @ 25°C - Operating Temperature -40°C to +130°C

| Part <sup>6,7</sup><br>Number | Inductance<br>@ 1px Adc<br>(μH ± 20%) | I <sub>rated</sub> <sup>5</sup><br>(A) | DCR (MAX)<br>(mΩ) | Saturation Current<br>(A) @ 25°C | Heating Current<br>(A) |
|-------------------------------|---------------------------------------|----------------------------------------|-------------------|----------------------------------|------------------------|
| P0751.102                     | 1.0                                   | 6.8                                    | 10                | 9.0                              | 6.8                    |
| P0751.152                     | 1.5                                   | 6.4                                    | 12                | 8.0                              | 6.4                    |
| P0751.222                     | 2.2                                   | 6.1                                    | 15                | 7.0                              | 6.1                    |
| P0751.332                     | 3.3                                   | 5.4                                    | 18                | 6.4                              | 5.4                    |
| P0751.472                     | 4.7                                   | 4.8                                    | 33                | 5.4                              | 4.8                    |
| P0751.682                     | 6.8                                   | 4.4                                    | 44                | 4.6                              | 4.4                    |
| P0751.103                     | 10                                    | 3.8                                    | 50                | 3.8                              | 3.9                    |
| P0751.153                     | 15                                    | 3.0                                    | 55                | 3.0                              | 3.1                    |
| P0751.223                     | 22                                    | 2.6                                    | 114               | 2.6                              | 2.7                    |
| P0751.333                     | 33                                    | 2.0                                    | 120               | 2.0                              | 2.1                    |
| P0751.473                     | 47                                    | 1.6                                    | 168               | 1.6                              | 1.8                    |
| P0751.683                     | 68                                    | 1.4                                    | 240               | 1.4                              | 1.5                    |
| P0752.104                     | 100                                   | 1.2                                    | 380               | 1.2                              | 1.3                    |
| P0752.154                     | 150                                   | 1.0                                    | 570               | 1.0                              | 1.0                    |
| P0752.224                     | 220                                   | 0.8                                    | 840               | 0.8                              | 0.8                    |
| P0752.334                     | 330                                   | 0.6                                    | 1020              | 0.6                              | 0.6                    |
| P0752.474                     | 470                                   | 0.5                                    | 1460              | 0.5                              | 0.5                    |
| P0752.684                     | 680                                   | 0.4                                    | 2170              | 0.4                              | 0.4                    |
| P0752.105                     | 1000                                  | 0.3                                    | 3300              | 0.3                              | 0.3                    |

### Notes:

- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
- Inductance tested at 100kHz, 10mV<sub>RMS</sub>
- Inductance drop = 10% typical at the Saturation Current
- ΔT = 15°C rise typical at the Heating Current
- The rated current is the lower of the saturation or heating current
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P0751.102NL becomes P0751.102NLT). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily 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.

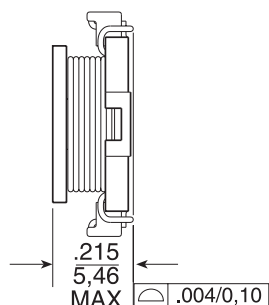
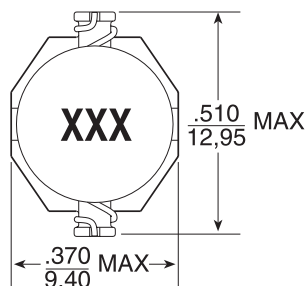
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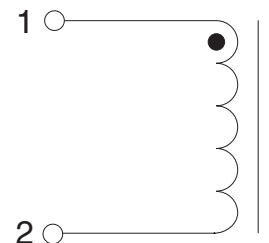
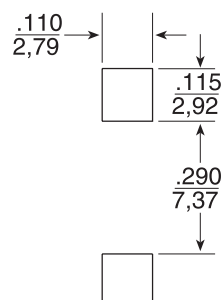
## Mechanical

## Schematic

P0751.XXX/P0752.XXX



### SUGGESTED PAD LAYOUT

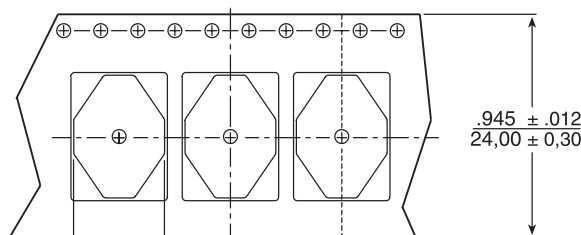
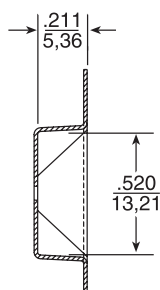


Weight .....0.8 grams

Tape & Reel .....800/reel

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,  
all tolerances are  $\pm \frac{.010}{0,25}$



### TAPE & REEL LAYOUT

## For More Information

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