

SMT Power Inductors

Unshielded Drum Core - PA0390NL Series



- Height:** 5.1 Max
- Footprint:** 8.89mm x 6.10mm Max
- Current Rating:** up to 6.0A
- Inductance Range:** 0.6μH to 113μH

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

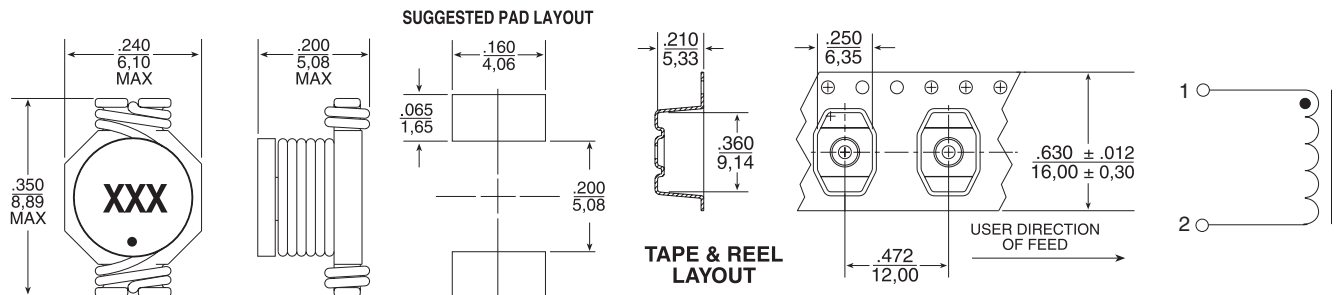
| Part ^{6,7} Number | Inductance @ IPK ADC (μH ±20%) | Irated ⁵ (A) | DCR (MAX) (mΩ) | Saturation Current (A) @ 25°C | Heating Current (A) |
|-------------------------------|--------------------------------------|----------------------------|-------------------|----------------------------------|------------------------|
| PA0390.471NL | 0.6 | 6 | 9.7 | 7.7 | 6 |
| PA0390.102NL | 1.2 | 4.4 | 17.7 | 5.3 | 4.4 |
| PA0390.152NL | 1.6 | 4.2 | 20 | 4.5 | 4.2 |
| PA0390.222NL | 2.6 | 3.1 | 36.3 | 3.5 | 3.1 |
| PA0390.332NL | 3.8 | 2.9 | 42.8 | 3 | 2.9 |
| PA0390.472NL | 5.2 | 2.2 | 54.4 | 2.6 | 2.2 |
| PA0390.682NL | 6.9 | 1.7 | 89.7 | 2.2 | 1.7 |
| PA0390.103NL | 11 | 1.5 | 110.7 | 1.9 | 1.5 |
| PA0390.153NL | 16 | 1.2 | 174.7 | 1.5 | 1.2 |
| PA0390.223NL | 23 | 1 | 254.1 | 1.2 | 1 |
| PA0390.333NL | 36 | 0.82 | 367 | 0.99 | 0.82 |
| PA0390.473NL | 48 | 0.72 | 474 | 0.87 | 0.72 |
| PA0390.683NL | 73 | 0.58 | 732 | 0.67 | 0.58 |
| PA0390.104NL | 113 | 0.47 | 1109 | 0.53 | 0.47 |

- Notes:**
- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
 - Inductance tested at 100kHz, 250mV_{RMS}.
 - Inductance drop = 10% typical at the Saturation Current.
 - ΔT = 40°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. PA0390.102NL becomes PA0390.102NLT). Pulse complies to industry standard tape and reel specifications 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.

Mechanical

Schematic

PA0390.XXXNL



Weight0.945 grams
 Tape & Reel1000/reel
 Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

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For More Information

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