

SMT POWER INDUCTORS

Unshielded Drum Core - PA0390NL Series



-  **Height:** 5.1mm 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

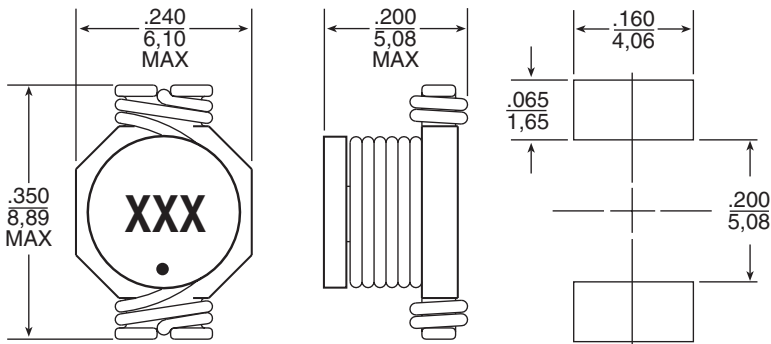
Part ^{6,7} Number	Inductance @ I _{PK} A _{DC} (μH ± 20%)	I _{rated} ⁵ (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
PA0390.471NL	0.6	6	9.7	7.7	6
PA0390.102NL	1.2	4.4	17.7	5.3	4.4
PA0390.152NL	1.6	4.2	20	4.5	4.2
PA0390.222NL	2.6	3.1	36.3	3.5	3.1
PA0390.332NL	3.8	2.9	42.8	3	2.9
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:**
1. The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
 2. Inductance tested at 100kHz, 250mV_{RMS}
 3. Inductance drop = 10% typical at the Saturation Current.
 4. ΔT = 40°C rise typical at the Heating Current
 5. The rated current is the lower of the saturation or heating current.
 6. 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 specification EIA481.
 7. 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

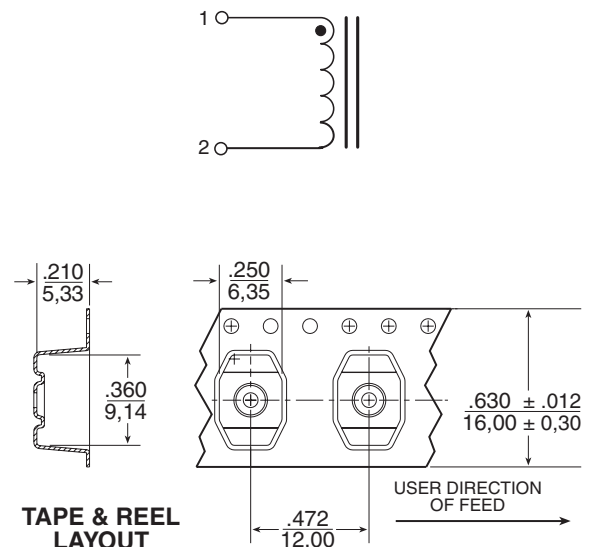
SUGGESTED PAD LAYOUT



Weight 0.2 grams
Tape & Reel 900/reel

Dimensions: Inches
mm

Unless otherwise specified, all tolerances are ± .010
0.25



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[PA0390.102](#) [PA0390.103](#) [PA0390.103T](#) [PA0390.104](#) [PA0390.152](#) [PA0390.153](#) [PA0390.222](#) [PA0390.223](#)
[PA0390.223T](#) [PA0390.332](#) [PA0390.333](#) [PA0390.471](#) [PA0390.472](#) [PA0390.472T](#) [PA0390.473](#) [PA0390.682](#)
[PA0390.683](#) [PA0390.102NLT](#) [PA0390.103NLT](#) [PA0390.471NLT](#) [PA0390.472NLT](#) [PA0390.473NLT](#)