

PA0390.471NLT Datasheet

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DiGi Electronics Part Number	PA0390.471NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PA0390.471NLT
Description	FIXED IND 600NH 6A 9.7 MOHM SMD
Detailed Description	600 nH Unshielded Wirewound Inductor 6 A 9.7mOhm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

PA0390.471NLT

Series:

PA0390NL

Type:

Wirewound

Inductance:

600 nH

Current Rating (Amps):

6 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.200" (5.08mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

±20%

Current - Saturation (Isat):

7.7A

DC Resistance (DCR):

9.7mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 130°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.350" L x 0.240" W (8.89mm x 6.10mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

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

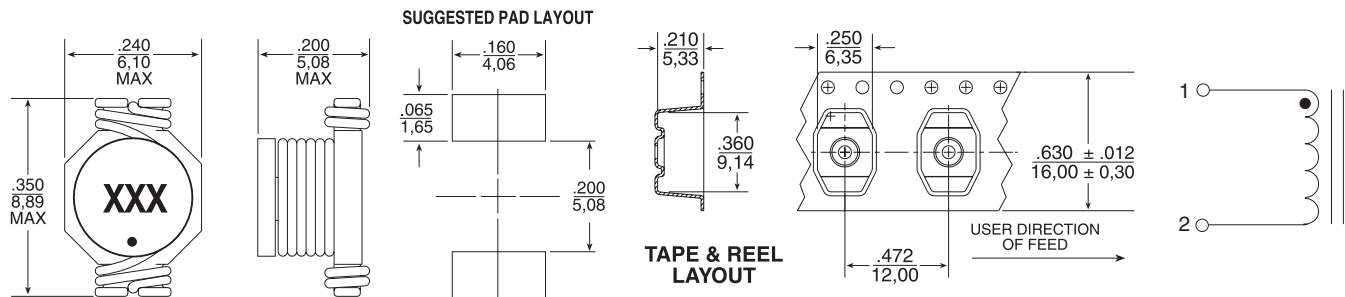
Part ^{6,7} Number	Inductance @ IPK ADC (μH ±20%)	Irated ⁵ (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
PA0390.471NL	0.6	6	9.7	7.7	6
PA0390.102NL	1.2	4.4	17.7	5.3	4.4
PA0390.152NL	1.6	4.2	20	4.5	4.2
PA0390.222NL	2.6	3.1	36.3	3.5	3.1
PA0390.332NL	3.8	2.9	42.8	3	2.9
PA0390.472NL	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 $\pm \frac{.010}{0.25}$

SMT Power Inductors

Unshielded Drum Core - PA0390NL Series



For More Information

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