

P0770.682NLT Datasheet

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DiGi Electronics Part Number	P0770.682NLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	P0770.682NLT
Description	FIXED IND 6.8UH 1.2A 130MOHM SMD
Detailed Description	6.8 μ H Unshielded Wirewound Inductor 1.2 A 130m Ohm Max Nonstandard



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Purchase and inquiry

Manufacturer Product Number:

P0770.682NLT

Series:

P0770NL

Type:

Wirewound

Inductance:

6.8 μ H

Current Rating (Amps):

1.2 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.115" (2.92mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

1.2A

DC Resistance (DCR):

130mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 130°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.260" L x 0.175" W (6.60mm x 4.45mm)

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 - P0770NL Series



- Height:** 2.9mm Max
- Footprint:** 6.6mm x 4.5mm Max
- Current Rating:** up to 2.9A
- Inductance Range:** 1.0μH to 220μH

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

Part Number ^{6,7}	Inductance @ I _{PK} ΔOC (μH ± 20%)	I _{rated} ⁵ (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
P0770.102NL	1.0	2.90	50	2.90	2.90
P0770.152NL	1.5	2.60	50	2.60	2.80
P0770.222NL	2.2	2.30	70	2.30	2.40
P0770.332NL	3.3	2.00	80	2.00	2.00
P0770.472NL	4.7	1.50	90	1.50	1.50
P0770.682NL	6.8	1.20	130	1.20	1.40
P0770.103NL	10	1.10	160	1.10	1.10
P0770.153NL	15	0.90	230	0.90	1.20
P0770.223NL	22	0.70	370	0.70	0.80
P0770.333NL	33	0.58	510	0.58	0.60
P0770.473NL	47	0.50	640	0.50	0.50
P0770.683NL	68	0.40	860	0.40	0.40
P0770.104NL	100	0.30	1270	0.31	0.30
P0770.154NL	150	0.25	2000	0.27	0.2
P0770.224NL	220	0.20	3110	0.22	0.20

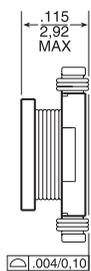
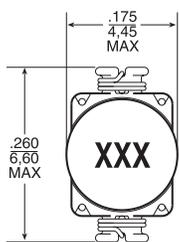
Notes:

- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
- Inductance tested at 100kHz, 10mV_{RMS}
- 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. P0770.102NL becomes P0770.102NLT). 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.

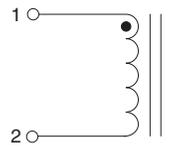
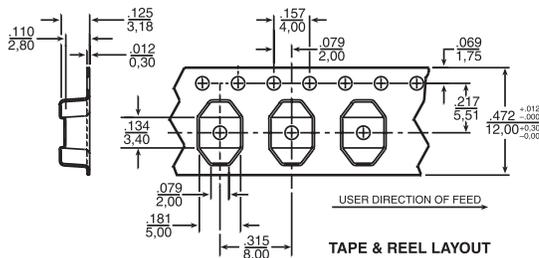
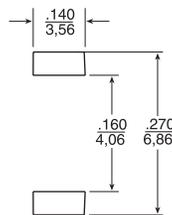
Mechanical

Schematic

P0770.XXXNL



SUGGESTED PAD LAYOUT



Weight0.2 grams

Tape & Reel2500/reel

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± $\frac{.010}{0.25}$

SMT Power Inductors

Unshielded Drum Core - P0770NL Series



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