### **SMT Power Inductors**

Unshielded Drum Core - P0770NL Series









Height: 2.9mm Max

Pootprint: 6.6mm x 4.5mm Max

Current Rating: up to 2.9A

**Inductance Range:** 1.0μH to 220μH

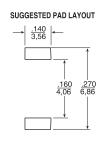
Electrical Specifications @ 25°C – Operating Temperature –40°C to +130°C								
Part <sup>6,7</sup> Number	Inductance @ Ιρκ Αδις (μΗ ± 20%)	Irated <sup>5</sup> (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)			
P0770.102NL	1.0	2.90	50	2.90	2.90			
P0770.152NL	1.5	2.60	50	2.60	2.80			
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			

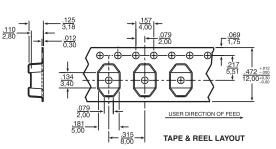
### **Notes:**

- 1. The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
- 2. Inductance tested at 100kHz, 10mV<sub>RMS</sub>
- 3. Inductance drop = 10% typical at the Saturation Current
- 4.  $\Delta T = 15$ °C rise typical at the Heating Current
- 5. 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.
- 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

# P0770.XXXNL 175 4,45 MAX MAX XXX 1004/0,10







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

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

# **SMT Power Inductors**

Unshielded Drum Core - P0770NL Series



Pulse Worldwide Headquarters 15255 Innovation Drive Ste 100 San Diego, CA 92128 U.S.A.  Pulse Europe Pulse Electronic Am Rottland 12 58540 Meinerzh Germany	D708, Shenzhen Academy of	Pulse North China Room 2704/2705 Super Ocean Finance Ctr. 2067 Yan An Road West Shanghai 200336 China	Pulse South Asia 3 Fraser Street 0428 DUO Tower Singapore 189352	Pulse North Asia 1F., No.111 Xiyuan Road Zhongli District Taoyuan City 32057 Taiwan (R.O.C)
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Tel: 858 674 8100 Tel: 49 2354 777 100 Tel: 86 755 33966678 Tel: 65 6287 8998 Tel: 886 3 4356768 Tel: 86 21 62787060 Fax: 858 674 8262 Fax: 49 2354 777 168 Fax: 86 755 33966700 Fax: 65 6280 0080 Fax: 886 3 4356820 Fax: 86 2162786973

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