

SMT Power Inductors

Unshielded Drum Core - PF0382NL Series



-  **Height:** 11.3mm Max
-  **Footprint:** 13.0mm x 9.4mm Max
-  **Current Rating:** up to 4.9A
-  **Inductance Range:** 10H to 1000H
-  **RoHS compliant version available on request**

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C⁷

Part ^{5,6} Number	Inductance ¹ @ Irated (μH TYP)	Irated ² (A)	DCR (mΩ MAX)	Inductance @ 0Adc (μH ±20%)	Saturation ³ Current Isat (A)	Heating ⁴ Current Idc (A)
PF0382.103NL *	9	4.90	24	10	8.30	4.90
PF0382.153NL *	14	4.20	31	15	7.10	4.20
PF0382.223NL	20	3.50	47	22	5.60	3.50
PF0382.333NL *	30	3.10	65	33	4.30	3.10
PF0382.473NL *	42	2.70	90	47	3.80	2.70
PF0382.683NL	61	1.90	130	68	3.10	1.90
PF0382.104NL *	90	1.50	200	100	2.60	1.50
PF0382.154NL *	140	1.20	280	150	2.10	1.20
PF0382.224NL	200	1.10	360	220	1.70	1.10
PF0382.334NL *	297	0.80	580	330	1.35	0.80
PF0382.474NL *	423	0.60	860	470	1.15	0.60
PF0382.684NL *	612	0.50	1200	680	1.05	0.50
PF0382.105NL *	900	0.20	2000	1000	0.85	0.20

Notes:

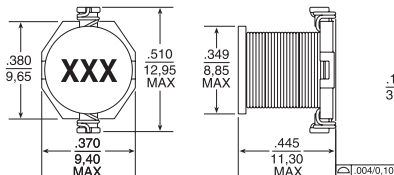
- Inductance at Irated is a typical inductance value measured when the inductor is subjected to the rated current.
- The rated current as listed is either the saturation current at 25°C or the heating current, depending on which value is lower.
- The saturation current Isat is the current which causes the inductance to drop by 10% (typical) at an ambient temperature of 25°C. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
- The heating current IDC is the DC current, which causes the temperature rise of the part to increase by the approximately 40°C. This current is determined by mounting the component on a typical application PCB and applying the current to the device for 30 minutes.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PF0382.103NL becomes PF0382.103NLT). 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

* Contact Pulse for availability

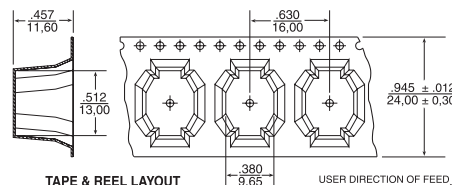
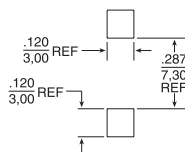
Mechanical

Schematic

PF0382.XXXNL



SUGGESTED PAD LAYOUT



TAPE & REEL LAYOUT

USER DIRECTION OF FEED

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For More Information

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