







# SMT POWER INDUCTORS

## Unshielded Drum Core - PF0698NL Series



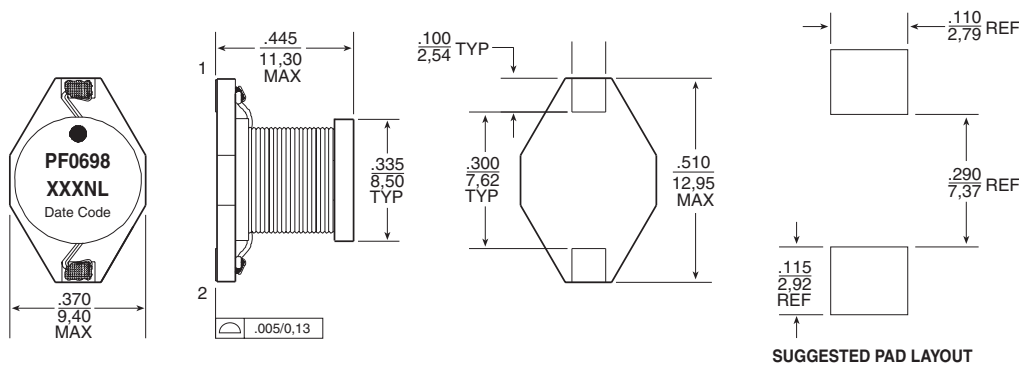
-  **All Inductors are RoHS compliant**
-  **Footprint: 13.0mm x 9.4mm Max**
-  **Current Rating: up to 4.9A**
-  **Inductance Range: 10μH to 1000μH**
-  **Clip pin termination**
-  **260°C reflow peak temperature qualified**

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

Part <sup>4</sup> Number	Inductance @ 0Adc (μH ±20%)	I <sub>rated</sub> <sup>1</sup> (A)	DCR (mΩ MAX)	Saturation <sup>2</sup> Current I <sub>sat</sub> (A)	Heating <sup>3</sup> Current I <sub>dc</sub> (A)	SRF (MHz TYP)
PF0698.103NL	10	4.90	24	8.3	4.90	19
PF0698.153NL	15	4.50	29	7.1	4.50	15
PF0698.183NL	18	4.20	30	5.8	4.20	13
PF0698.223NL	22	3.50	47	5.6	3.50	12
PF0698.333NL	33	2.80	65	4.3	2.80	9
PF0698.473NL	47	2.45	85	3.8	2.45	7
PF0698.683NL	68	2.00	130	3.1	2.00	6
PF0698.104NL	100	1.60	200	2.6	1.60	4.8
PF0698.154NL	150	1.32	280	2.1	1.32	3.5
PF0698.224NL	220	1.13	360	1.7	1.13	2.8
PF0698.334NL	330	0.95	580	1.35	0.95	2.3
PF0698.474NL	470	0.75	860	1.15	0.75	1.7
PF0698.684NL	680	0.60	1200	1.05	0.60	1.5
PF0698.105NL	1000	0.49	2000	0.85	0.49	1.2

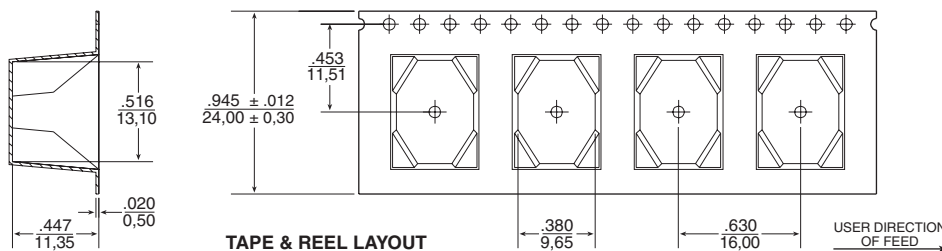
### Mechanical

### Schematic



Weight .....2.5 grams  
Tape & Reel.....280/reel

Dimensions: Inches  
mm  
Unless otherwise specified,  
all tolerances are ± .004  
0,10



TAPE & REEL LAYOUT

USER DIRECTION OF FEED

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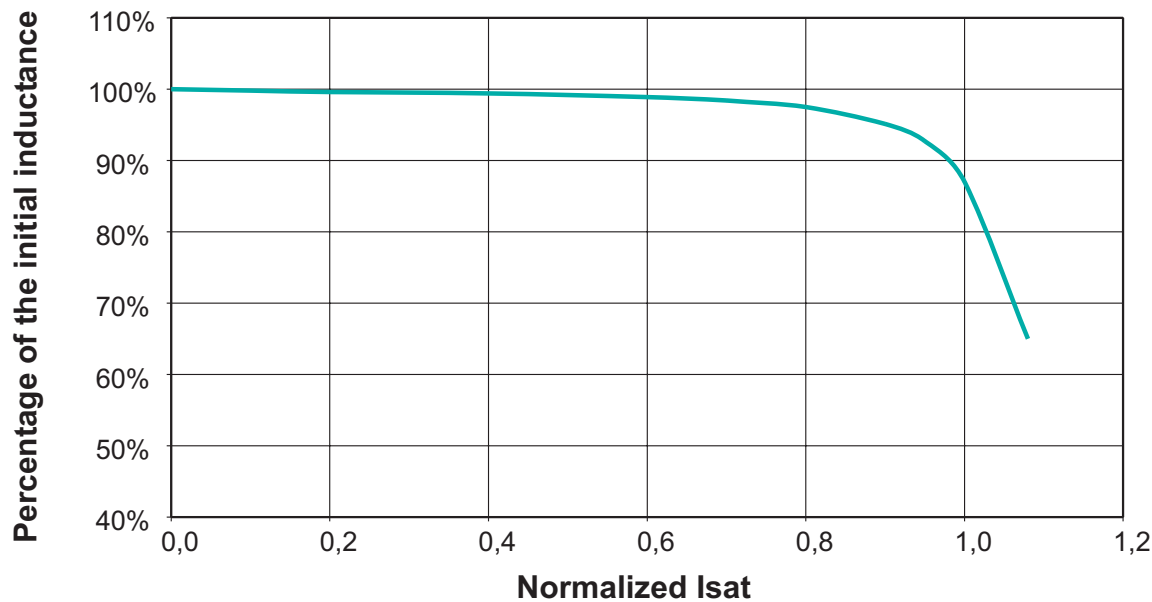
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### Notes from Tables

1. The rated current as listed is either the saturation current @ 25°C or the heating current depending on which value is lower.
2. The saturation current  $I_{sat}$  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.
3. The heating current  $I_{dc}$  is the dc current which causes the temperature rise of the part to increase by 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.
4. Optional Tape and Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PF0698.103NL becomes PF0698.103NLT). Pulse complies to industry standard tape and reel specification EIA481.

### Typical Inductance vs Current Characteristics



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