SMT POWER INDUCTORS
Unshielded Drum Core - PF0698NL Series

Pulse® A TECHNITROL COMPANY

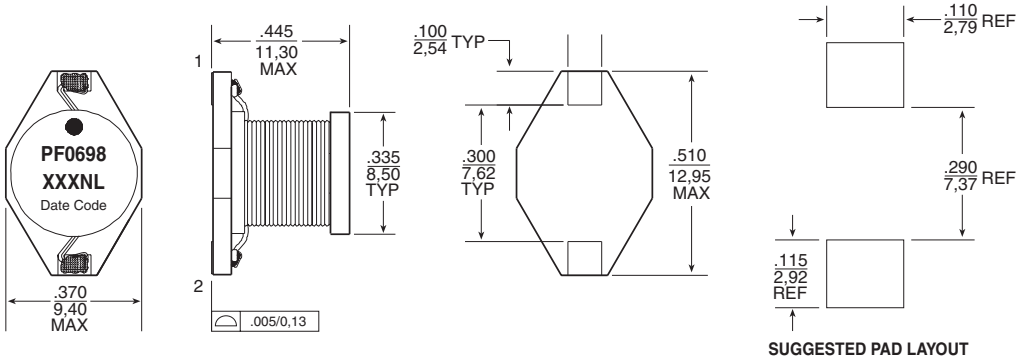
RoHS COMPLIANT

- **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

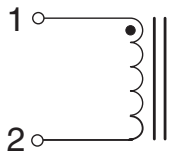
Electrical Specifications @ 25°C — Operating Temperature -40°C to +125°C

Part[4] Number	Inductance @0Adc (µH ±20%)	Irated[1] (A)	DCR (mΩ MAX)	Saturation[2] Current Isat (A)	Heating[3] Current Idc (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

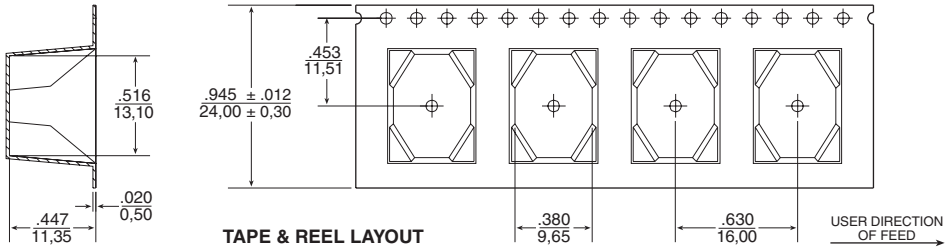
Mechanical



Schematic



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



Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .004 / 0,10

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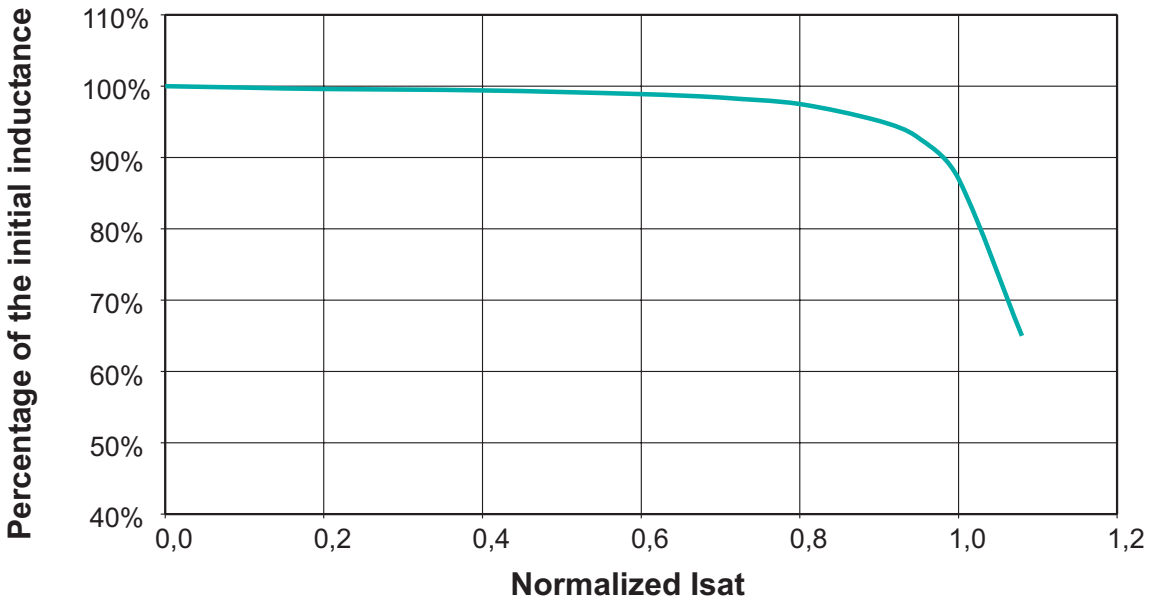
Notes from Tables

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 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.
3. The heating current Idc 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 PF0698.103NL**T**). Pulse complies to industry standard tape and reel specification EIA481.

Typical Inductance vs Current Characteristics



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