SMT POWER INDUCTORS
Shielded Drum Core - PL89XX Series

Pulse® A TECHNITROL COMPANY

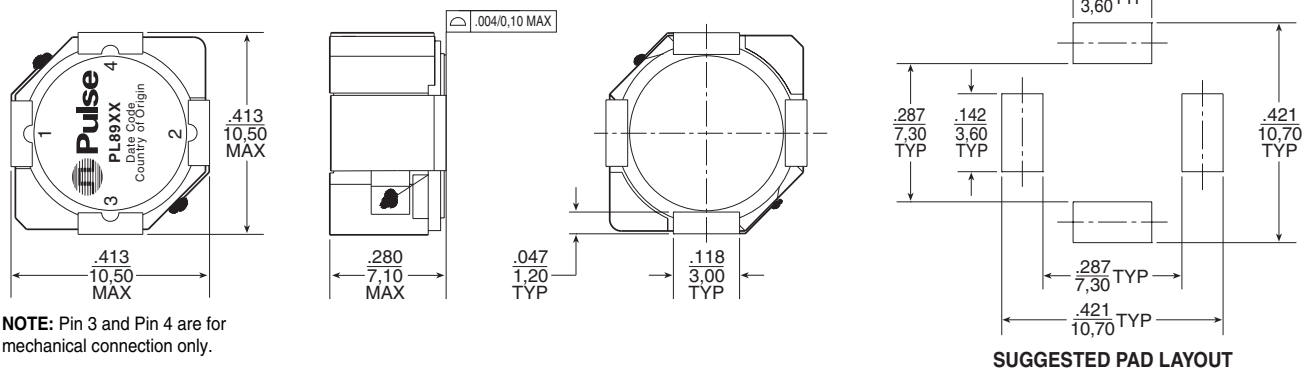
- **Height:** 7.1mm Max
- **Footprint:** 10.5mm x 10.5mm Max
- **Inductance Range:** 0.8µH to 54.4µH
- **Current Rating:** up to 11A

Electrical Specifications @ 25°C — Operating Temperature -55°C to +130°C

Part Numbers	Inductance @Irated (µH TYP)	Irated [2] (A)	DCR (mΩ) TYP	DCR (mΩ) MAX	Inductance @0ADC (µH)	Saturation [3] Current (A) @25°C	Heating [4] Current (A)
PL8901	0.80	11	3.5	4.0	1.0*	14	11
PL8902	1.20	10	4.3	6.0	1.5*	13	10
PL8903	2.1	9.0	5.1	7.3	2.7*	11	9
PL8904	2.9	8.0	6.9	8.5	3.7*	9.2	8
PL8905	3.7	7.3	7.9	9.5	4.7*	8.2	7.3
PL8906	4.8	6.0	10.9	16.5	6.0*	6.9	6.0
PL8907	6	5.5	14.8	18.5	7.6*	6.2	5.5
PL8908	8	5.0	16.7	21.8	10	5.5	5.0
PL8909	9.6	4.5	18.1	29.0	12	5.1	4.5
PL8910	12	4.1	21.2	35.4	15	4.4	4.1
PL8911	14.4	4.0	27.9	37.0	18	4.3	4.0
PL8912	17.6	3.8	29.8	42.0	22	3.8	3.8
PL8913	21.6	3.4	40.9	45.9	27	3.4	3.4
PL8914	26.4	3.0	43.1	64.8	33	3.0	3.1
PL8915	31.2	2.7	60.8	81.5	39	2.8	2.7
PL8916	37.6	2.6	67.1	89.0	47	2.6	2.6
PL8917	54.4	2.1	103.6	135.0	68	2.1	2.1

*Inductance at 0ADC tolerance on indicated part numbers is ±30%; tolerance is ±20% on all other parts. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PL8901 becomes PL8901**T**). ***NOTES FROM TABLE:*** *(See back page)*

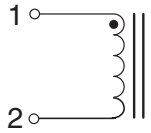
Mechanical



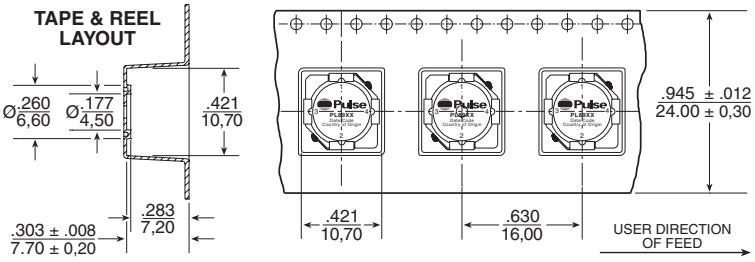
NOTE: Pin 3 and Pin 4 are for mechanical connection only.

SUGGESTED PAD LAYOUT

Schematic



TAPE & REEL LAYOUT



Weight . . . . . 4.0 grams
Tape & Reel 400/reel

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

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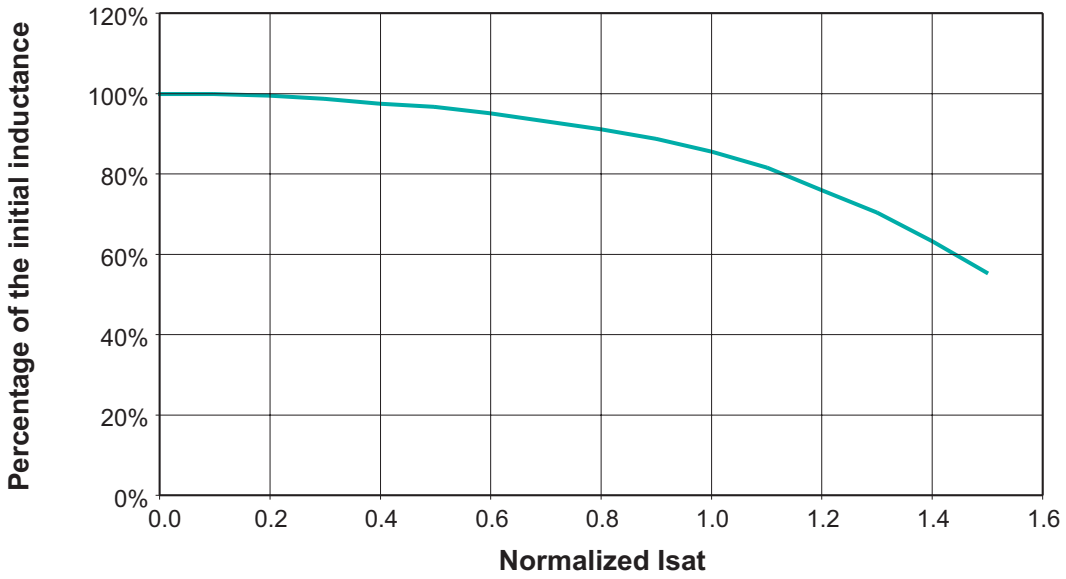
Notes from Tables

1. Temperature of the component (ambient plus temperature rise) must be within specified operating temperature range.
2. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
3. The saturation current is the current which causes the inductance to drop to 75% of its initial inductance at zero bias. This current is determined by placing the component at room ambient (25°C), and applying a short duration pulse current (to eliminate self-heating effects) to the component.
4. The heating current is the DC current, which causes the temperature of the part to increase by approximately 40°C. This current is determined by extending the terminals of the component with 30mm length 28 gauge buss wires and applying the current to the device for 30 minutes. The temperature is measured by placing the thermo-couple between the winding and the shield.
5. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. In order to determine the approximate total loss (or temperature rise) for a given application, both copper losses and core losses should be taken into account.

Inductance vs Current Characteristics



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