

# SMT Power Inductors

Unshielded Drum Core - P1252NL Series



- Height:** 7.5mm Max
- Footprint:** 22.33mm x 15.14mm Max
- Current Rating:** up to 15A
- Inductance Range:** 0.78°H to 10°H

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

Part <sup>6,7</sup> Number	Inductance @ IPK ADC (μH ± 20%)	I <sub>rated</sub> <sup>5</sup> (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
P1252.781NL *	0.78	15.0	2.6	30.0	15.0
P1252.152NL	1.5	15.0	4.0	25.0	15.0
P1252.222NL	2.2	12.0	6.1	20.0	12.0
P1252.332NL	3.3	10.0	8.6	17.0	10.0
P1252.392NL *	3.9	9.0	10	15.0	9.0
P1252.472NL	4.7	8.4	14	13.0	8.4
P1252.605NL	6.0	7.5	17	12.0	7.5
P1252.782NL	7.8	7.5	18	11.0	7.5
P1252.103NL	10	6.0	26	10.0	6.0

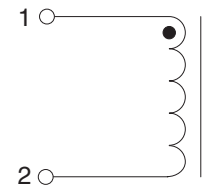
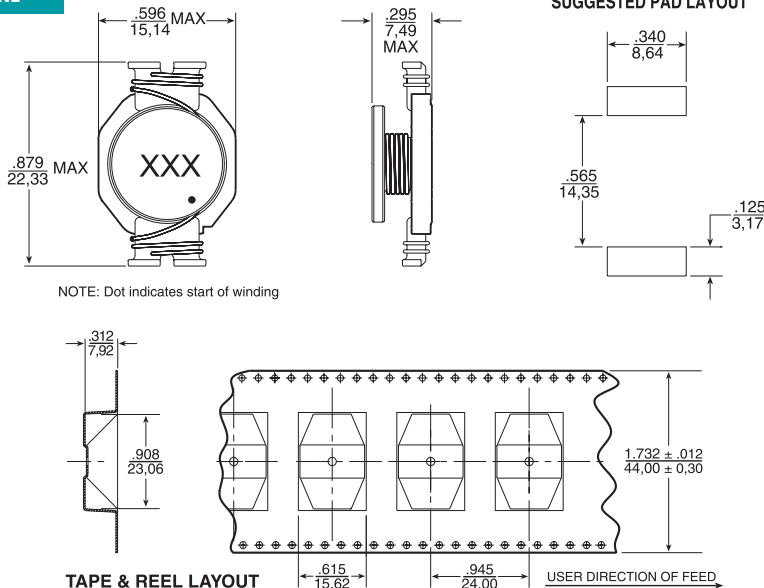
- Notes:**
- The temperature rise of the component (ambient plus temperature rise) must be within the specified operating temperature range.
  - Inductance tested at 100kHz, 0.1 mV<sub>RMS</sub>
  - Inductance drop = 10% typical at the saturation current
  - ΔT = 40°C rise typical at the heating current
  - The rated current is 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 P1252.781NL becomes P1252.781NLT). 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.

\* Contact Pulse for availability

### Mechanical

### Schematic

#### P1252.XXXNL



**Weight** .....4.1 grams  
**Tape & Reel** .....300/reel

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

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

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