





# SMT POWER INDUCTORS

## Unshielded Drum Core - P1252 Series



-  **Height: 7.5mm Max**
-  **Footprint: 22.2mm x 15.0mm Max**
-  **Current Rating: up to 15A**
-  **Inductance Range: 0.78μH to 10μH**

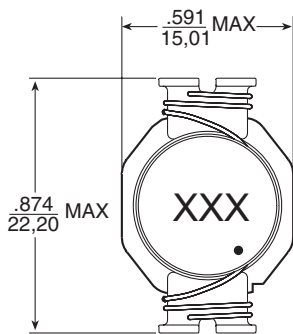
### Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part <sup>6,7</sup> Number	Inductance @ I <sub>PK</sub> AC (μH ± 20%)	I <sub>rated</sub> <sup>5</sup> (A)	DCR (MAX) (mΩ)	Saturation Current (A) @ 25°C	Heating Current (A)
P1252.781	0.78	15.0	2.6	30.0	15.0
P1252.152	1.5	15.0	4.0	25.0	15.0
P1252.222	2.2	12.0	6.1	20.0	12.0
P1252.332	3.3	10.0	8.6	17.0	10.0
P1252.392	3.9	9.0	10	15.0	9.0
P1252.472	4.7	8.4	14	13.0	8.4
P1252.602	6.0	7.5	17	12.0	7.5
P1252.782	7.8	7.5	18	11.0	7.5
P1252.103	10	6.0	26	10.0	6.0

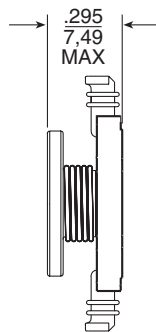
- NOTES:**
- The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
  - Inductance tested at 100kHz, 0.1 mV<sub>RMS</sub>
  - Inductance drop = 10% typical at the saturation current
  - ΔT = 40°C rise typical at the heating current
  - The rated current is the 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. P1252.781 becomes P1252.781T). Pulse complies to industry standard tape and reel specification EIA481.
  - To order RoHS compliant part, add the suffix "NL" to the part number (i.e. P1252.781 becomes P1252.781NL and P1252.781T becomes P1252.781NLT).

## Mechanical

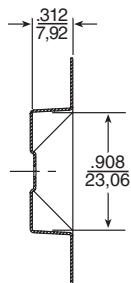
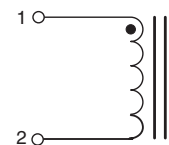
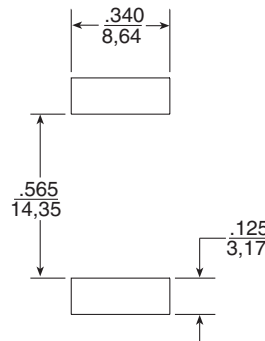
## Schematic



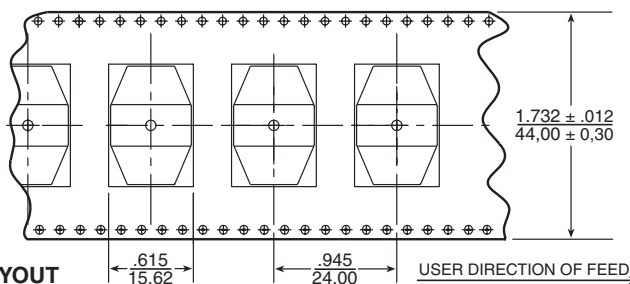
NOTE: Dot indicates start of winding



### SUGGESTED PAD LAYOUT



### TAPE & REEL LAYOUT



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

**Dimensions:** Inches  
mm  
Unless otherwise specified,  
all tolerances are ± .010  
0.25