

# SMT POWER INDUCTORS

## Unshielded Drum Core - P0762 Series



-  **Height:** 3.0mm Max
-  **Footprint:** 13.0mm x 9.4mm Max
-  **Current Rating:** up to 2.0A
-  **Inductance Range:** 10μH to 1000μH

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

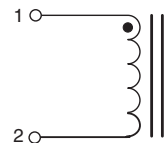
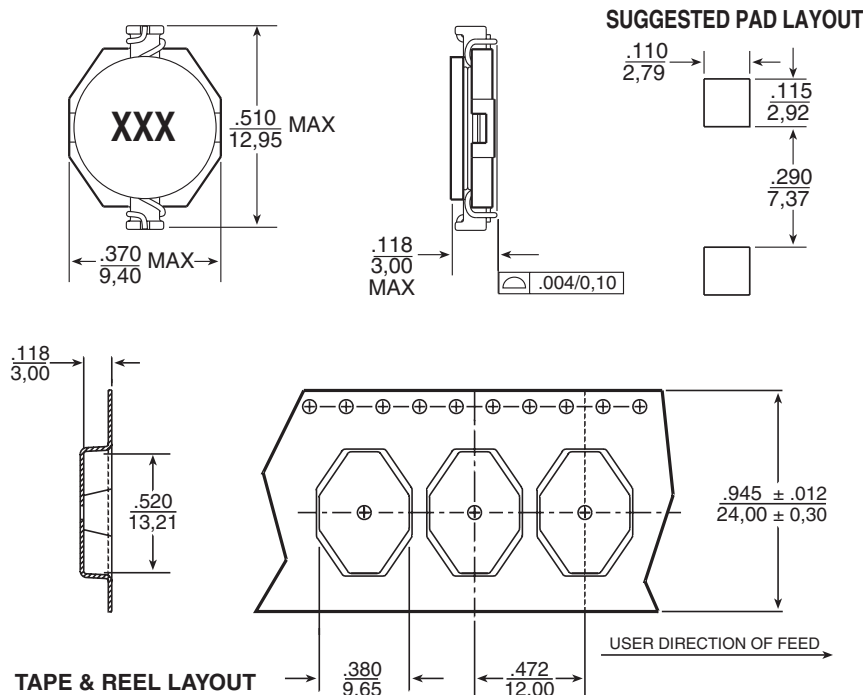
| Part <sup>6,7</sup><br>Number | Inductance<br>@ I <sub>PK ADC</sub><br>(μH ± 20%) | I <sub>rated</sub> <sup>5</sup><br>(A) | DCR (MAX)<br>(mΩ) | Saturation Current<br>(A) @ 25°C | Heating Current<br>(A) |
|-------------------------------|---------------------------------------------------|----------------------------------------|-------------------|----------------------------------|------------------------|
| P0762.103                     | 10                                                | 2.0                                    | 110               | 2.4                              | 2.0                    |
| P0762.153                     | 15                                                | 1.5                                    | 150               | 2.0                              | 1.5                    |
| P0762.223                     | 22                                                | 1.3                                    | 230               | 1.6                              | 1.3                    |
| P0762.333                     | 33                                                | 1.1                                    | 300               | 1.4                              | 1.1                    |
| P0762.473                     | 47                                                | 0.8                                    | 390               | 1.0                              | 0.8                    |
| P0762.683                     | 68                                                | 0.7                                    | 660               | 0.9                              | 0.7                    |
| P0762.104                     | 100                                               | 0.6                                    | 840               | 0.7                              | 0.6                    |
| P0762.154                     | 150                                               | 0.5                                    | 1200              | 0.6                              | 0.5                    |
| P0762.224                     | 220                                               | 0.4                                    | 1900              | 0.5                              | 0.4                    |
| P0762.334                     | 330                                               | 0.3                                    | 2700              | 0.4                              | 0.3                    |
| P0762.474                     | 470                                               | 0.2                                    | 4000              | 0.3                              | 0.2                    |
| P0762.684                     | 680                                               | 0.1                                    | 5300              | 0.2                              | 0.1                    |
| P0762.105                     | 1000                                              | 0.05                                   | 8400              | 0.1                              | .05                    |

**NOTES:** 1. The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.  
 2. Inductance tested at 100kHz, 10mV<sub>RMS</sub>  
 3. Inductance drop = 10% typical at the Saturation Current.  
 4. ΔT = 15°C rise typical at the heating current.  
 5. The rated current is the lower of the saturation or heating current.

6. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P0762.103 becomes P0762.103T). Pulse complies to industry standard tape and reel specification EIA481.  
 7. To order RoHS compliant part, add the suffix "NL" to the part number (i.e. P0762.103 becomes P0762.103NL and P0762.103T becomes P0762.103NLT).

### Mechanical

### Schematic



Weight . . . . . 0.8 grams  
 Tape & Reel . . . . 1000/reel

Dimensions: Inches  
 mm  
 Unless otherwise specified,  
 all tolerances are ± .010  
 0,25