

Features

- Subminiature in SMT
- 7.5 mm seated height
- Distortion of only 0.015 %
- Vacuum encapsulated
- UL60950 certified
- RoHS compliant*

Applications

- Modems (V32)
- Laptop Computers
- Telecommunications
- Instrumentation

Electrical Specifications

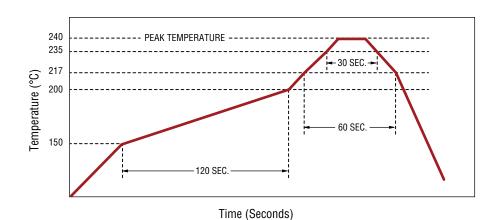
Nominal Impedance600 Ω Turns Ratio1:1
Insertion Loss2.0 dB max. at 2 kHz
Frequency Response
±0.25 dB max. 200-4 kHz
Return Loss24 dB min. 200-4 kHz*
Balance80 dB min.
Distortion76 dB max.
@ 600 Hz, -10 dBm
Dielectric Strength 2000 VRMS for 1 min.
Insulation Resistance 100 MΩ @ 500 V
DC Resistance**
Primary 115 Ω ±15 %
Secondary 115 Ω ±15 %
Shunt Inductance
Shunt Loss
Leakage Inductance6 mH typ. @ 1 kHz
Power Level
Operating Temperature20 °C to +85 °C
Storage Temperature40 °C to +85 °C

Materials

*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

**SM-LP-5001 is symmetrical, meaning there is no real primary nor secondary winding.

Solder Profile



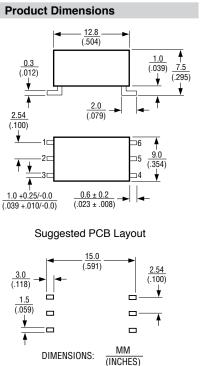
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UNLESS OTHERWISE

SPECIFIED, TOLERANCE: (.010)



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.



0.15

(.006)

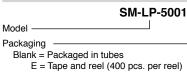
±0.25

MAX.

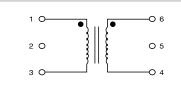
MAX.

How To Order

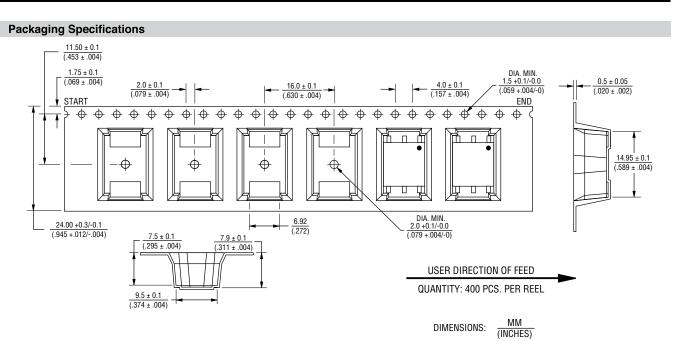
SM-LP-5001 Series - Surface Mount Line Matching Transformers



Schematic



SM-LP-5001 Series - Surface Mount Line Matching Transformers **BOURNS**



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REV. 05/17

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