**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

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

**Electrical Specifications**
- Nominal Impedance: 600 Ω
- Turns Ratio: 1:1
- Insertion Loss: 2.0 dB max. at 2 kHz
- Frequency Response: ±0.25 dB max. 200-4 kHz
- Return Loss: 24 dB min. 200-4 kHz*
- Balance: 80 dB min.
- Distortion: 76 dB max.
- 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: 3.8 H min.
- Shunt Loss: 7500 Ω min.
- Leakage Inductance: 6 mH typ. @ 1 kHz
- Power Level: 10 dBm
- Operating Temperature: -20 °C to +85 °C
- Storage Temperature: -40 °C to +85 °C

**Product Dimensions**

**Materials**
- Terminal Plating: Sn/Ag/Cu

*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.

**How To Order**

SM-LP-5001  
Model  
Packaging  
Blank = Packaged in tubes  
E = Tape and reel (400 pcs. per reel)

**Schematic**

**Solder Profile**

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*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.

**WARNING** Cancer and Reproductive Harm  
www.P65Warnings.ca.gov
SM-LP-5001 Series - Surface Mount Line Matching Transformers

Packaging Specifications

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