

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 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* Balance......80 dB min. Distortion-76 dB max. @ 600 Hz, -10 dBm Dielectric Strength ... 2000 VRMS for 1 min. Insulation Resistance 100 M Ω @ 500 V DC Resistance** Secondary...... 115 Ω ±15 %

Materials

Terminal PlatingSn/Ag/Cu

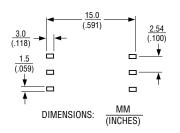
Leakage Inductance......6 mH typ. @ 1 kHz Power Level.......10 dBm

Operating Temperature.....-20 °C to +85 °C Storage Temperature.....-40 °C to +85 °C

*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.

Suggested PCB Layout



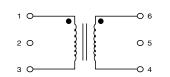
LEAD COPLANARITY: $\frac{0.15}{(.006)}$ MAX.

UNLESS OTHERWISE ± 0.25 SPECIFIED, TOLERANCE: (.010) MAX

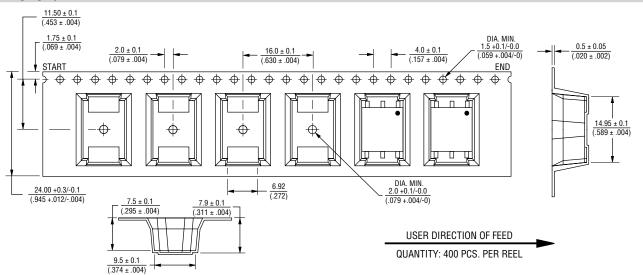
How To Order SM-LP-5001 ___ Model _____ Packaging ____ Blank = Packaged in tubes

E = Tape and reel (400 pcs. per reel)

Schematic



Packaging Specifications



REV. 07/16

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.