

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 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 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

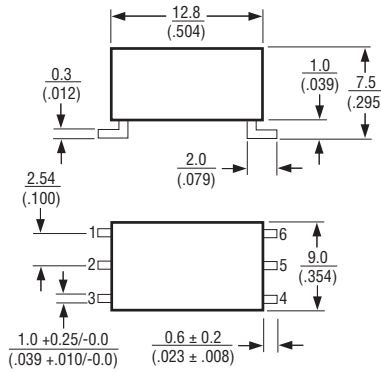
Materials

Terminal PlatingSn/Ag/Cu

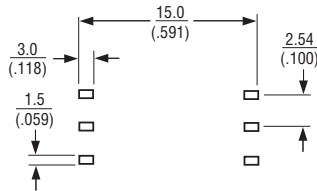
*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

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

Product Dimensions



Suggested PCB Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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

UNLESS OTHERWISE SPECIFIED, TOLERANCE: $\frac{\pm 0.25}{(.010)}$ MAX.

How To Order

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

Schematic

