

Features

- Subminiature in SMT
- 7.36 mm seated height
- Tested at 4600 Vrms, 1 minute
- Distortion of only 0.015 %
- Vacuum encapsulated
- EN 60950, EN 41003, BS 415, BABT and UL approved

- Lead free version available (see How to Order)
- Lead free versions are 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*
 Balance80 dB min.
 Distortion-76 dB max.
 @ 600 Hz, -10 dBm

Dielectric Strength

.....4600 Vrms for 1 min.
 Insulation Resistance
100 MΩ @ 500 V

DC Resistance**

Primary115 Ω ±15 %
 Secondary115 Ω ±15 %
 Shunt Inductance.....3.8 H min.
 Shunt Loss7500 Ω min.
 Leakage Inductance.....6-7 mH @ 1 kHz
 Power Level10 dBm

Operating Temperature

.....-20 °C to +85 °C

Storage Temperature

.....-40 °C to +85 °C

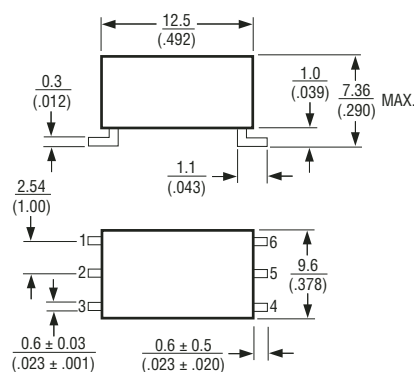
Materials

Terminal Plating.....AgSn

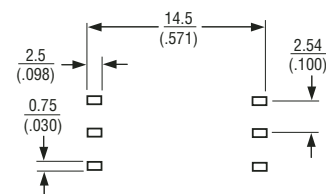
*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

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

Product Dimensions



Suggested PCB Layout

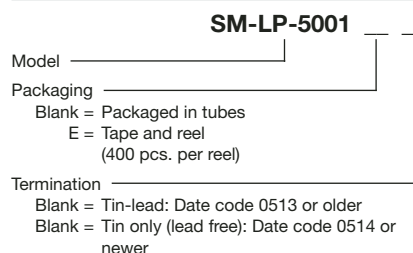


DIMENSIONS ARE: $\frac{\text{MM}}{\text{(INCHES)}}$

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

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

How to Order



Schematic

