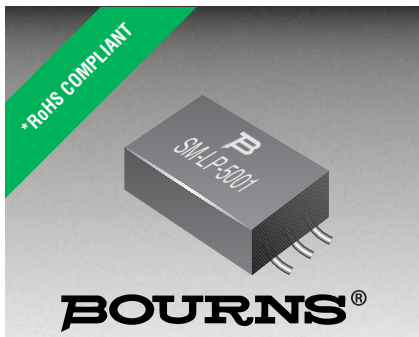




Features

- Subminiature in SMT
- 7.36 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 Loss.....24 dB min. 200-4 kHz*
 Balance80 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**
 Primary115 Ω ± 15 %
 Secondary115 Ω ± 15 %
 Shunt Inductance.....3.8 H min.
 Shunt Loss.....7500 Ω min.
 Leakage Inductance ..6 mH typ. @ 1 kHz
 Power Level10 dBm
 Operating Temperature
-20 $^{\circ}$ C to +85 $^{\circ}$ C
 Storage Temperature
-40 $^{\circ}$ C to +85 $^{\circ}$ C

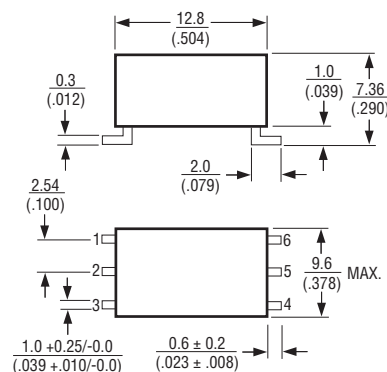
Materials

Terminal Plating.....AgSn

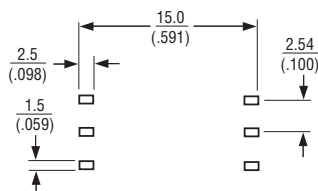
*For use with recommended circuit
 (BS6305 impedance Class A non-speech
 or Class B speech).

**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

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

Schematic

