

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 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.
	@ 600 Hz, -10 dBm
Dielectric Strength	
.....	4600 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.....	6-7 mH @ 1 kHz
Power Level	10 dBm
Operating Temperature	
.....	-20 °C to +85 °C
Storage Temperature	
.....	-40 °C to +85 °C

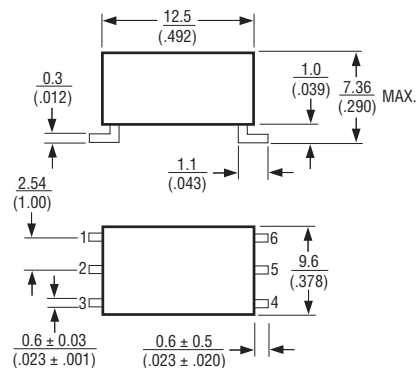
Materials

Terminal Plating.....AgSn

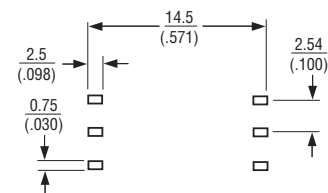
*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

**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

SM-LP-5001

Model _____

Packaging _____

Blank = Packaged in tubes

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

Termination _____

Blank = Tin-lead: Date code 0513 or older

Blank = Tin only (lead free): Date code 0514 or newer

Schematic

