



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



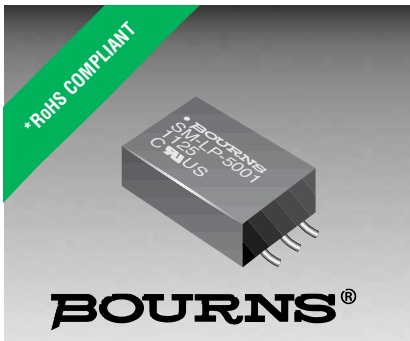
Contact us

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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

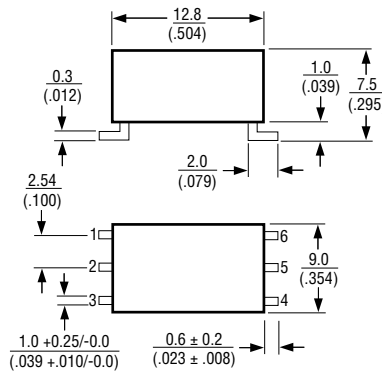
Materials

Terminal PlatingSn/Ag/Cu

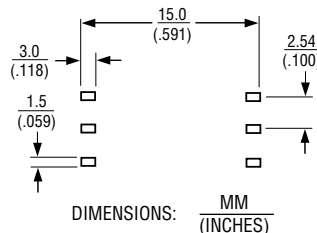
*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

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

Product Dimensions



Suggested PCB Layout



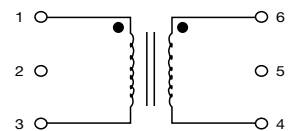
LEAD COPLANARITY: $\frac{0.15}{(.006)}$ MAX.

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

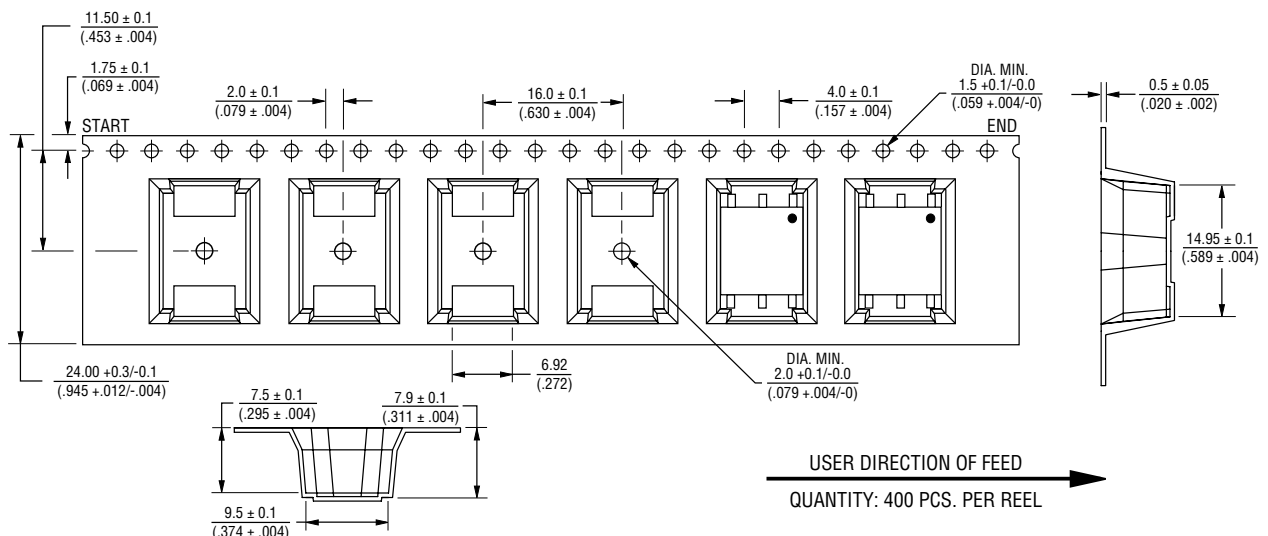
How To Order

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

Schematic



Packaging Specifications



REV. 07/16

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

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.