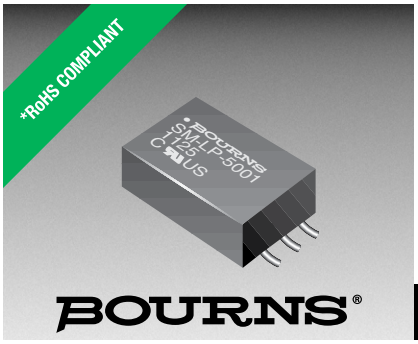


Features

- 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 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 ... 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..... -40 °C to +85 °C
Storage Temperature..... -40 °C to +85 °C

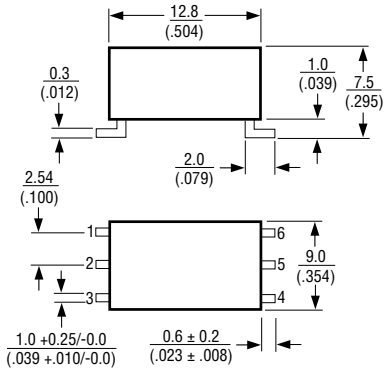
Materials

Terminal Plating .....Sn/Ag/Cu

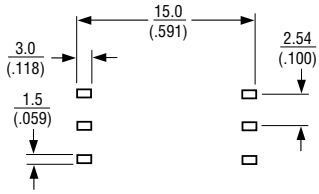
*For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech).

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

Product Dimensions



Suggested PCB Layout



DIMENSIONS: MM / (INCHES)

LEAD COPLANARITY: 0.15 (.006) MAX.

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

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

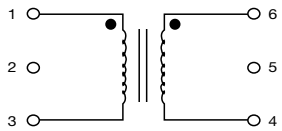
How To Order

SM-LP-5001

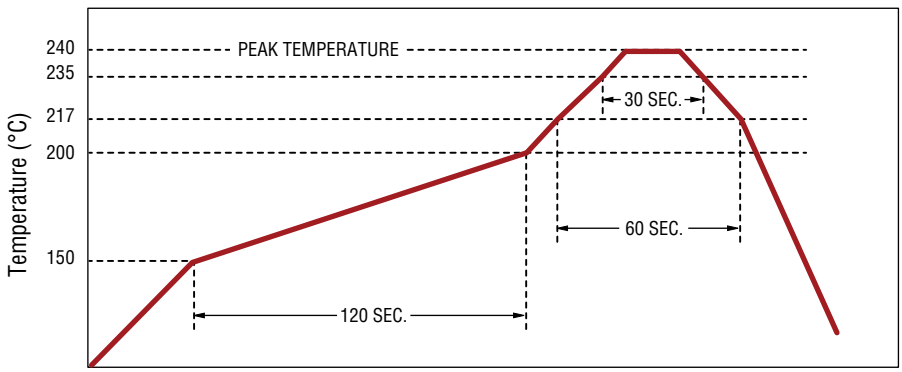
Model

Packaging
Blank = Packaged in tubes
E = Tape and reel (400 pcs. per reel)

Schematic



Solder Profile



Time (Seconds)

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Users should verify actual device performance in their specific applications.
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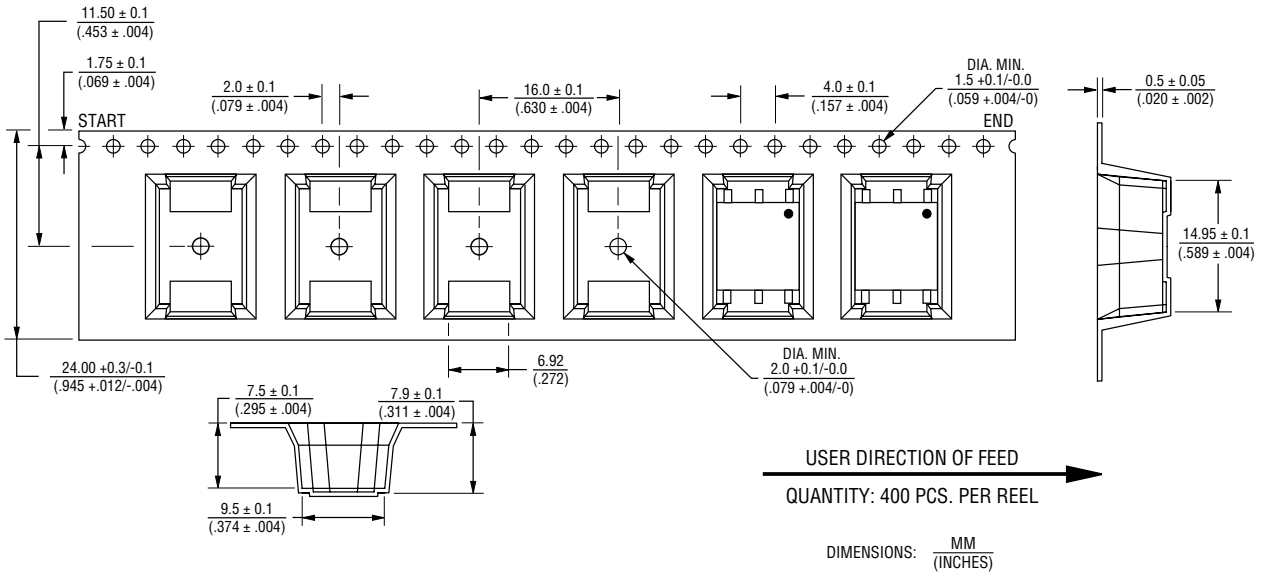
Packaging Specifications



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