

#### **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 11 Impediate Impedance 12

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 VBMS for 1 min.

Dielectric Strength ...2000 VRMS for 1 min. Insulation Resistance ..... 100 M $\Omega$  @ 500 V DC Resistance\*\*

#### **Materials**

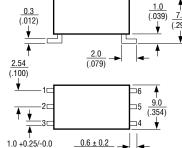
Terminal Plating ......Sn/Ag/Cu

\*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.

# 0.3 (.012)

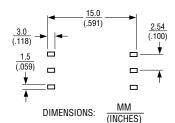
**Product Dimensions** 



#### Suggested PCB Layout

 $(.023 \pm .008)$ 

(.039 + .010/-0.0)



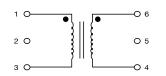
LEAD COPLANARITY:  $\frac{0.15}{(.006)}$  MAX.

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

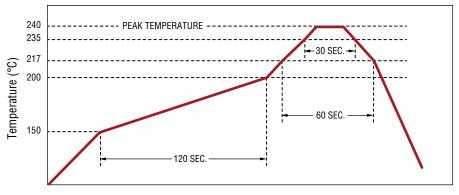
# How To Order SM-LP-5001 \_ Model \_\_\_\_\_\_ Packaging \_\_\_\_\_

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

#### **Schematic**



#### **Solder Profile**

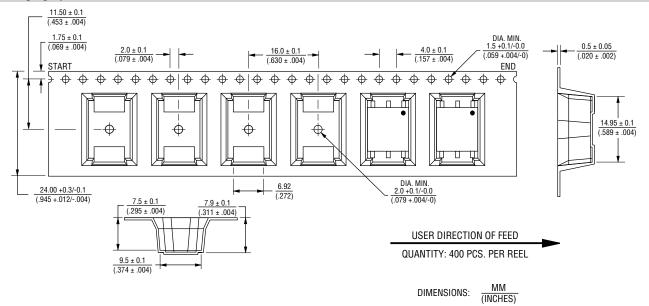


Time (Seconds)

# **SM-LP-5001 Series - Surface Mount Line Matching Transformers**

# BOURNS

#### **Packaging Specifications**



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