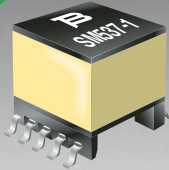


\*ROHS COMPLIANT  
VERSIONS  
AVAILABLE



**BOURNS®**

## Features

- For use with Analog Device's AD20msp930 ADSL chipset (CO)
- Excellent Total Harmonic Distortion (THD) performance
- SMT and small size package
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms

- Operating temperature -40 °C to +85 °C
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant\*

## Applications

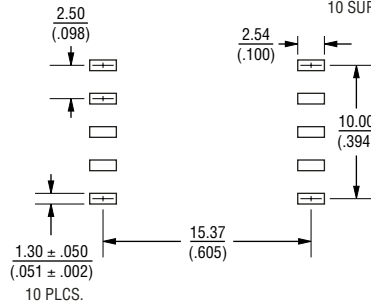
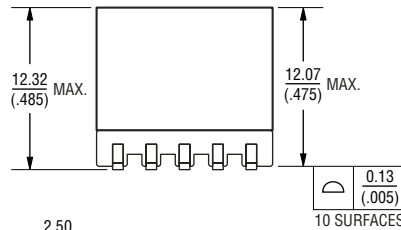
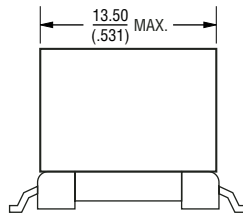
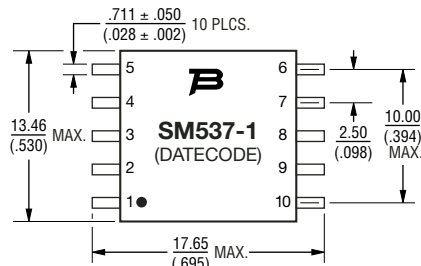
- ADSL - Analog AD20msp930

# SM537-1 ADSL Line Transformers

### Electrical Specifications @ 25 °C

Turns Ratio  
(10-7):(1-4) .....1:1.1 ±2 %  
 OCL @ 10 kHz, 0.1V  
 (1-4) with (2-3) shorted.....2.03 mH min.  
 (10-7) with (8-9) shorted..1.75 mH min.  
 Leakage Inductance @ 100 kHz 0.1 V  
 (10-7) with (2-3), (1-4), (8-9) shorted  
 .....7.5 µH max.  
 Longitudinal Balance  
 10 kHz to 1.1 MHz .....50 dB min.  
 Insertion Loss @ 300 kHz .....<0.5 dB  
 Isolation Voltage .....1500 Vrms max.  
 Load Resistance .....100 Ω  
 DC Resistance  
 (1-4) with (2-3) shorted.....1.30 Ω max.  
 (10-7) with (8-9) shorted.....1.50 Ω max.  
 THD Linearity @ 30 kHz.....-80 dB typ.  
 Application .....CO

### Product Dimensions

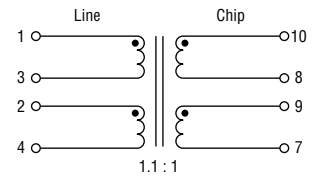


Recommended PAD layout

DIMENSIONS ARE:  $\frac{\text{MM}}{\text{(INCHES)}}$

TOLERANCE: ±  $\frac{0.25}{(.010)}$

### Electrical Schematic



### How to Order

**SM537-1E**

Model \_\_\_\_\_  
 Termination \_\_\_\_\_  
 Blank = Tin-lead  
 L = Tin only (lead free)

### Packaging Specifications

Tape & Reel\* .....200 pcs./reel

\*\*E" suffix at end of part number designates tape & reel packaging, e.g. SM537-1E.