

## 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
- RoHS compliant\*

## Applications

- ADSL - Analog AD20msp930

# SM537-1L 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 W  
 DC Resistance  
 (1-4) with (2-3) shorted.... 1.30 W max.  
 (10-7) with (8-9) shorted.. 1.50 W max.  
 THD Linearity @ 30 kHz..... -80 dB typ.  
 Application ..... CO

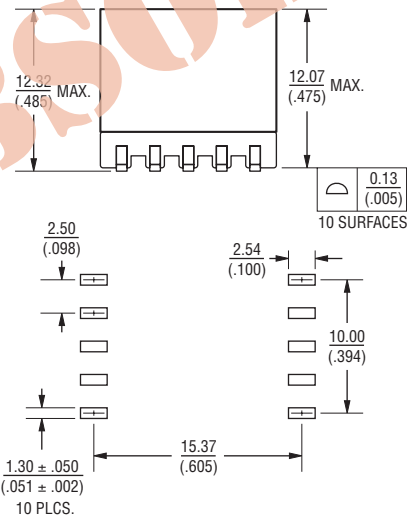
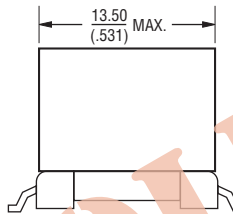
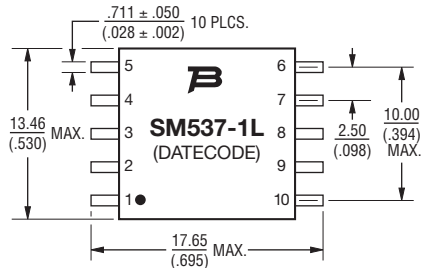
### Packaging Specifications

Tape & Reel\* ..... 200 pcs./reel  
 \*\*"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM537-1EL.

### How To Order

Model SM537-1E L  
 Termination \_\_\_\_\_  
 L = Tin only (RoHS Compliant)

### Product Dimensions



Recommended PAD layout

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

TOLERANCE  $\pm \frac{0.25}{(0.010)}$

### Electrical Schematic

