

## Features

- For use with Globespan G7000 ADSL chipset in customer premise applications
- Excellent Total Harmonic Distortion (THD) performance in a small size
- SMT and small size package
- Operating temperature -40 °C to +85 °C

- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant\*

## Applications

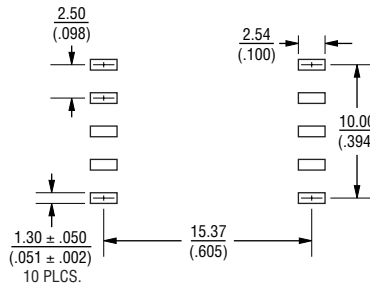
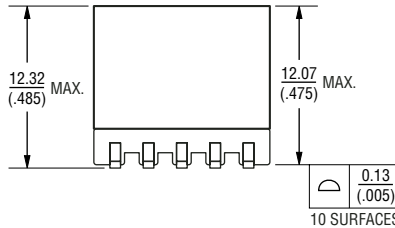
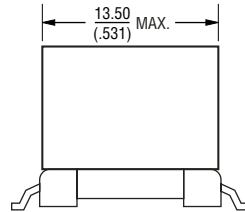
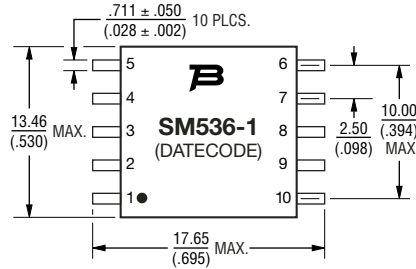
- ADSL - Globespan G7000

# SM536-1 ADSL Line Transformers

### Electrical Specifications @ 25 °C

Turns Ratio .....1:1 ±2 %  
 OCL @ 10 kHz, 0.1 V  
 (1-5) with (2-4) shorted  
 .....430 μH ±10 %  
 (10-6) with (9-7) shorted  
 .....430 μH ±10 %  
 Leakage Inductance @ 100 kHz 0.1 V  
 (1-5) with (2-4), (7-9), (10-6) shorted  
 .....10.0 μH max.  
 Longitudinal Balance  
 25 kHz to 1.1 MHz .....40 dB min.  
 Insertion Loss @ 772 kHz .....< 0.5 dB  
 Isolation Voltage .....1875 Vrms max.  
 Load Resistance .....100 Ω  
 DC Resistance  
 (1-4) = (2-5) .....0.45 Ω max.  
 (10-7) = (9-6) .....0.35 Ω max.  
 THD Linearity @ 100 kHz.....-80 dB typ.

### Product Dimensions

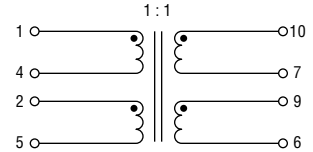


Recommended PAD layout

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

TOLERANCE:  $\pm \frac{0.25}{(.010)}$

### Electrical Schematic



### How to Order

**SM536-1E**

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