

BOURNS®

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

Applications

- ADSL - Globespan G7000

SM536-1 ADSL Line Transformers

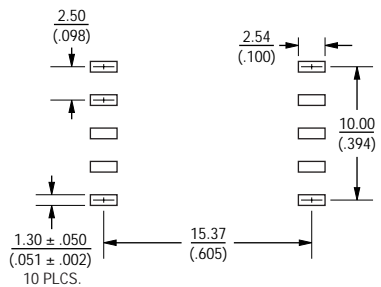
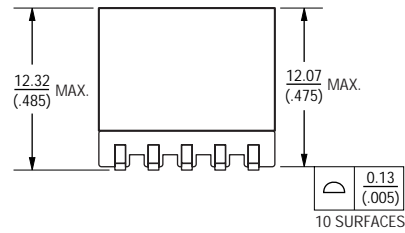
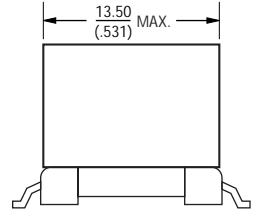
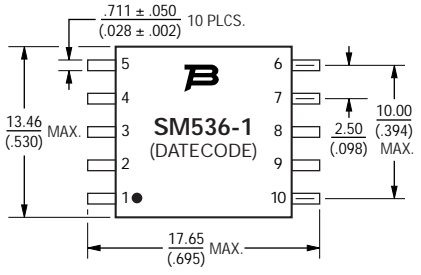
Electrical Specifications @ 25 °C

Turns Ratio1:1 ±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 MHz40 dB min.
 Insertion Loss @ 772 kHz< 0.5 dB
 Isolation Voltage1875 Vrms max.
 Load Resistance100 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.

Packaging Specifications

Tape & Reel*200 pcs./reel
 *"E" suffix at end of part number designates tape & reel packaging, e.g. SM536-1E.

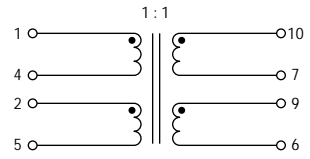
Product Dimensions



Recommended PAD layout

DIMENSIONS ARE: $\frac{\text{MM}}{\text{(INCHES)}}$
 TOLERANCE: ± $\frac{0.25}{(.010)}$

Electrical Schematic



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