

BOURNS®

Features

- For use with Analog Device's AD20msp930 ADSL chipset (Central Office)
- Excellent Total Harmonic Distortion (THD) performance
- 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 - Analog AD20msp930

SM537-1 ADSL Line Transformers

Electrical Specifications @ 25 °C

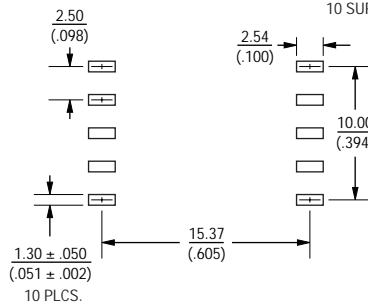
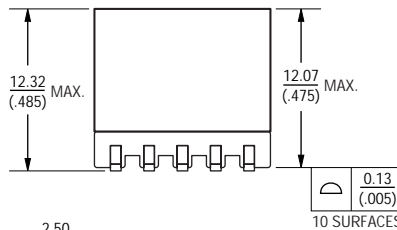
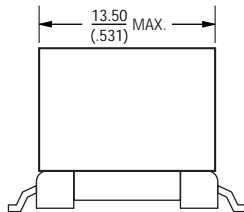
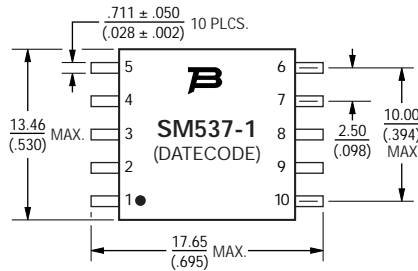
Turns Ratio
 (10-7):(1-4)1:1.1 ± 2 %
 OCL @ 10 kHz, 0.1V
 (1-4) with (2-3) shorted.....2.03 mH min.
 (10-7) with (8-9) shorted...1.75 mH min.
 Leakage Inductance @ 100 kHz 0.1 V
 (10-7) with (2-3), (1-4), (8-9) shorted
7.5 µH max.
 Longitudinal Balance
 10 kHz to 1.1 MHz50 dB min.
 Insertion Loss @ 300 kHz<0.5 dB
 Isolation Voltage1500 Vrms max.
 Load Resistance100 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.
 ApplicationCO

Packaging Specifications

Tape & Reel*200 pcs./reel

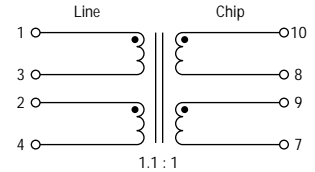
*"E" suffix at end of part number designates tape & reel packaging, e.g. SM537-1E.

Product Dimensions



Recommended PAD layout

Electrical Schematic



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

TOLERANCE: ± $\frac{0.25}{(.010)}$