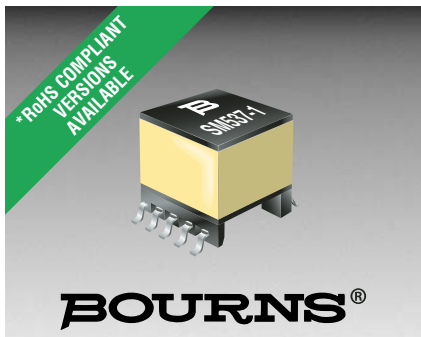




Features

- 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 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.

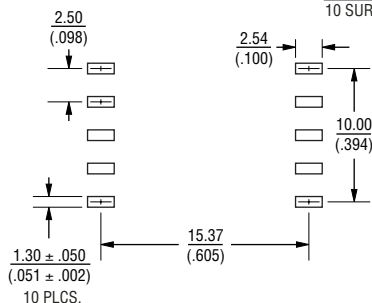
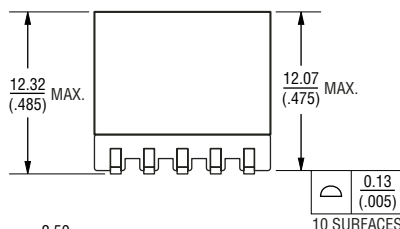
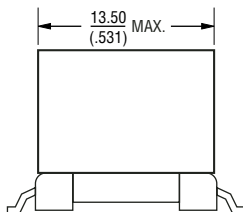
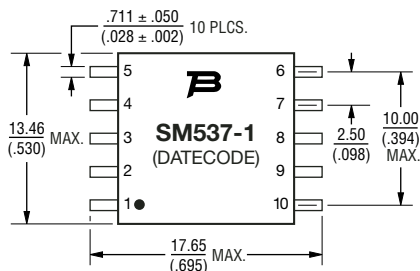
ApplicationCO

Packaging Specifications

Tape & Reel*200 pcs./reel

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

Product Dimensions

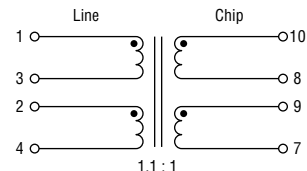


Recommended PAD layout

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

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

Electrical Schematic



How to Order

SM537-1E

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