

Features

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



This series is Sd M\&R_U not recommended for new designs.

- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms
- RoHS compliant*

SM536-1EL ADSL Line Transformers

Electrical Specifications @ 25 °C

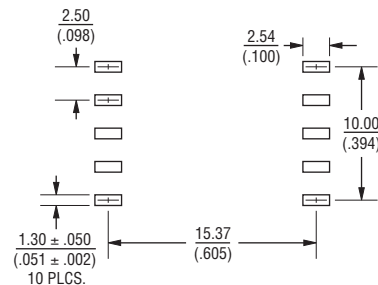
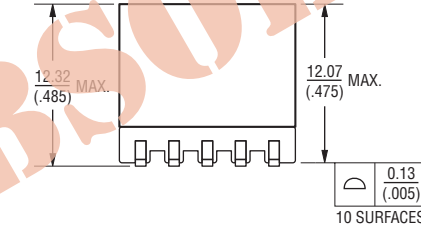
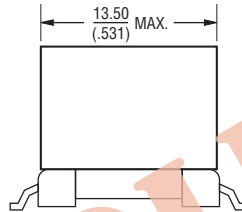
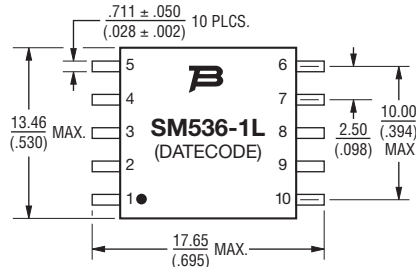
Turns Ratio	1:1 $\pm 2\%$
OCL @ 10 kHz, 0.1 V (1-5) with (2-4) shorted	430 $\mu\text{H} \pm 10\%$
(10-6) with (9-7) shorted	430 $\mu\text{H} \pm 10\%$
Leakage Inductance @ 100 kHz 0.1 V (1-5) with (2-4), (7-9), (10-6) shorted	10.0 μH max.
Longitudinal Balance 25 kHz to 1.1 MHz.....	40 dB min.
Insertion 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.

Packaging Specifications

Tape & Reel*.....	200 pcs./reel
-------------------	---------------

**"E" suffix at end of part number designates tape & reel packaging, e.g. SM536-1EL.

Product Dimensions

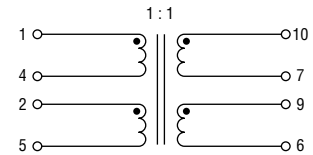


Recommended PAD layout

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

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

Electrical Schematic



How To Order

Model **SM536-1E L**
Termination
L = Tin only (RoHS Compliant)

REV. 05/13

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.