

Features

- For use with Analog Device's AD20msp910 / AD20msp918 ADSL chipsets
- Excellent Total Harmonic Distortion (THD) performance in a small size
- SMT and thru-hole package version
- Operating temperature -40 °C to +85 °C
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms
- RoHS compliant*

Applications

- ADSL - Analog AD20msp910/918

SM538-1L & PT539-1L ADSL Line Transformers

Electrical Specifications @ 25 °C

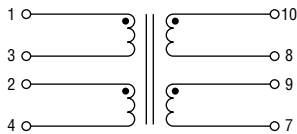
Turns Ratio 1:1 ±2 %
 OCL @ 10 kHz, 0.1 V
 (1-4) with (2-3) shorted
 5.0 mH ±10 %
 (10-7) with (8-9) shorted
 5.0 mH ±10 %
 Leakage Inductance @ 100 kHz 0.1 V
 (1-4) with (2-3), (8-9), (10-7) shorted
 18.0 µH max.
 Longitudinal Balance
 25 kHz to 1.1 MHz 40 dB min.
 Insertion Loss @ 100 kHz < 0.5 dB
 Isolation Voltage 1500 Vrms max.
 Load Resistance 100 Ω
 DC Resistance
 (1-4), (10-7) 3 Ω max.
 THD Linearity
 SM538-1L @ 300 kHz -60 dB typ.
 PT539-1L @ 30 kHz -80 dB typ.
 Package
 SM538-1L SMT
 PT539-1L THT

Packaging Specifications

SM538-1EL* 200 pcs./reel
 PT539-1L 60 pcs./tray

**"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM538-1EL.

Electrical Schematic

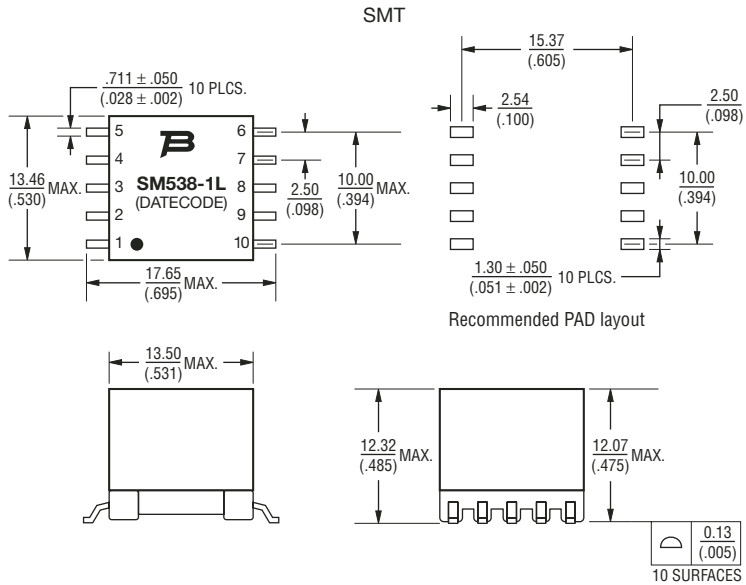


How To Order

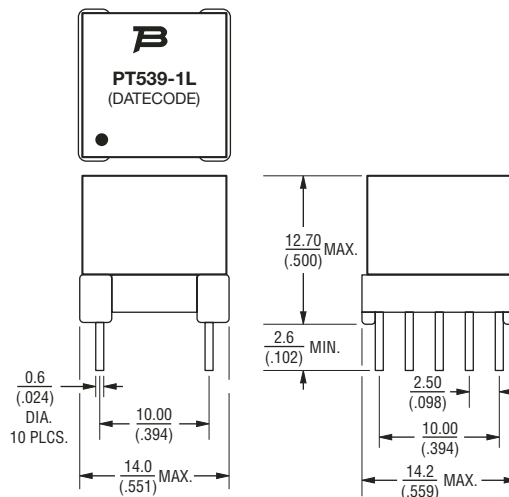
SM538-1E or PT539-1 L

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

Product Dimensions



THT



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

REV. 09/08

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications