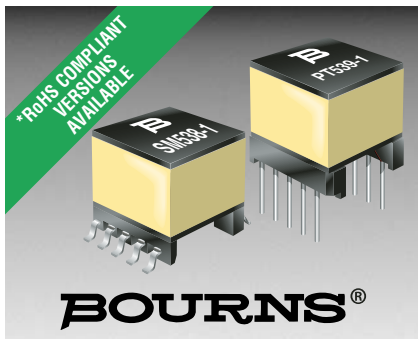




Features

- 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
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant*

Applications

- ADSL - Analog AD20msp910/918

SM538-1 & PT539-1 ADSL Line Transformers

Electrical Specifications @ 25 °C

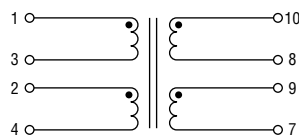
Turns Ratio1:1 $\pm$ 2 %
 OCL @ 10 kHz, 0.1 V
 (1-4) with (2-3) shorted
5.0 mH $\pm$ 10 %
 (10-7) with (8-9) shorted
5.0 mH $\pm$ 10 %
 Leakage Inductance @ 100 kHz 0.1 V
 (1-4) with (2-3), (8-9), (10-7) shorted
18.0 μ H max.
 Longitudinal Balance
 25 kHz to 1.1 MHz40 dB min.
 Insertion Loss @ 100 kHz< 0.5 dB
 Isolation Voltage1500 Vrms max.
 Load Resistance100 Ω
 DC Resistance
 (1-4), (10-7)3 Ω max.
 THD Linearity
 SM538-1 @ 300 kHz-60 dB typ.
 PT539-1 @ 30 kHz-80 dB typ.
 Package
 SM538-1SMT
 PT539-1THT

Packaging Specifications

SM538-1E*200 pcs./reel
 PT539-160 pcs./tray

*"E" suffix at end of part number
 designates tape & reel packaging, e.g.
 SM538-1E.

Electrical Schematic



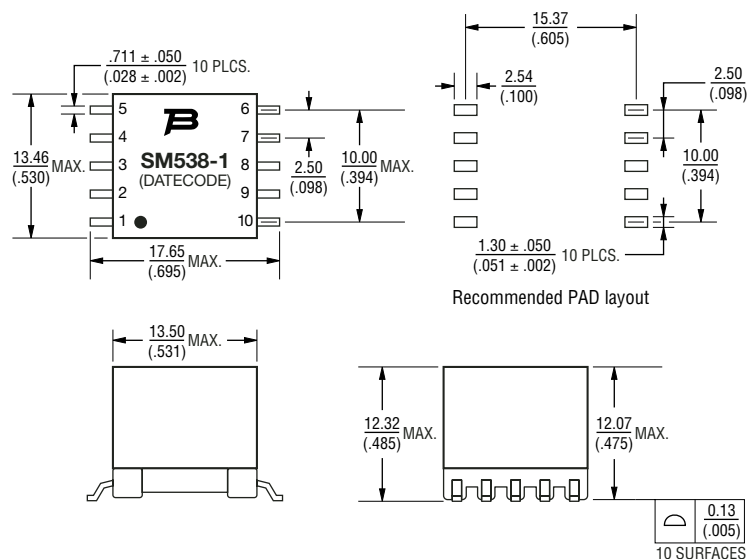
How to Order

SM538-1E or PT539-1

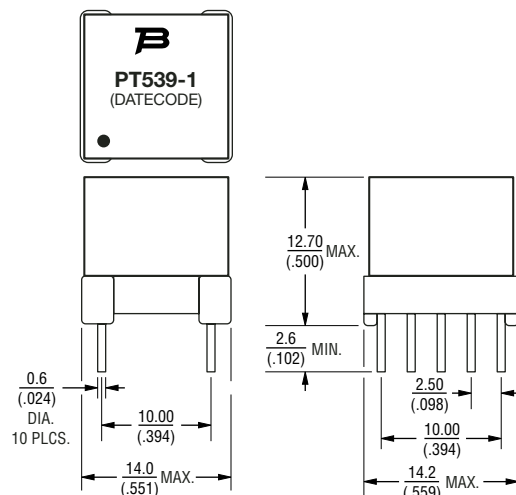
Model _____
 Termination _____
 Blank = Tin-lead
 L = Tin only (lead free)

Product Dimensions

SMT



THT



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

TOLERANCE: $\pm \frac{0.25}{(0.010)}$