

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

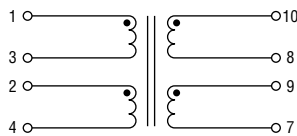
Turns Ratio	1:1 ±2 %
OCL @ 10 kHz, 0.1 V (1-4) with (2-3) shorted	5.0 mH ±10 %
(10-7) with (8-9) shorted	5.0 mH ±10 %
Leakage Inductance @ 100 kHz 0.1 V (1-4) with (2-3), (8-9), (10-7) shorted	18.0 µH max.
Longitudinal Balance 25 kHz to 1.1 MHz	40 dB min.
Insertion Loss @ 100 kHz	< 0.5 dB
Isolation Voltage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

Packaging Specifications

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

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

Electrical Schematic

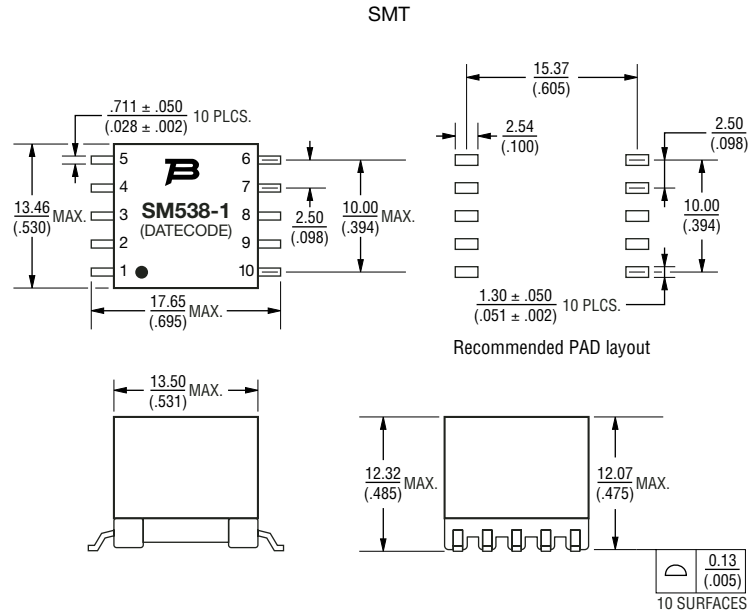


How to Order

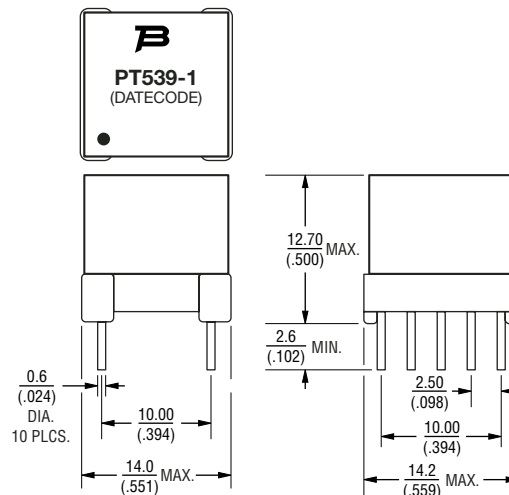
SM538-1E or PT539-1

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

Product Dimensions



THT



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

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