

## Features

- For use with Analog Device's AD20msp918 ADSL chipsets
- Excellent Total Harmonic Distortion (THD) performance in a small size
- Both SMD and thru-hole package version
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms

- Operating temperature 0 °C to +70 °C
- Lead free version available (see How to Order)
- Lead free versions are RoHS compliant\*

## Applications

- ADSL - Analog AD20msp918

# SM531-1 & PT532-1 ADSL Line Transformers

### Electrical Specifications @ 25 °C

Turns Ratio (1-4):(10-7)  
.....1:1.27 ±2 %

OCL @ 10 kHz, 0.1 V  
(1-4) with (2-3) shorted  
.....1.80 mH min.  
(10-7) with (8-9) shorted  
.....2.90 mH min.

Leakage Inductance @ 100 kHz 0.1 V  
(1-4) with (2-3), (8-9), (10-7) shorted  
.....7.5 µH max.

Longitudinal Balance  
30 kHz to 1.1 MHz .....50 dB min.

Insertion Loss @ 100 kHz  
.....< 0.5 dB

Isolation Voltage .....1500 Vrms max.

Load Resistance .....100 Ω

DC Resistance  
(1-4), (10-7) .....2 Ω max.

THD Linearity @ 30 kHz  
.....-80 dB typ.

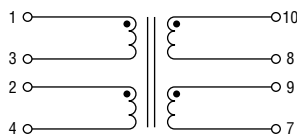
Package  
SM531-1 .....SMT  
PT532-1 .....THT

### Packaging Specifications

SM531-1\* .....200 pcs./reel  
PT532-1 .....60 pcs./tray

\*"E" suffix at end of part number designates tape & reel packaging, e.g. SM531-1E.

### Electrical Schematic

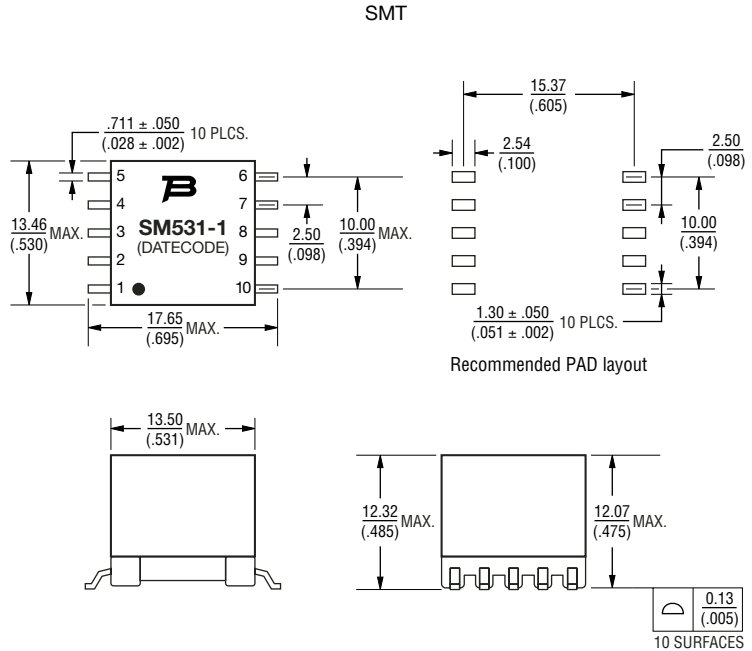


### How to Order

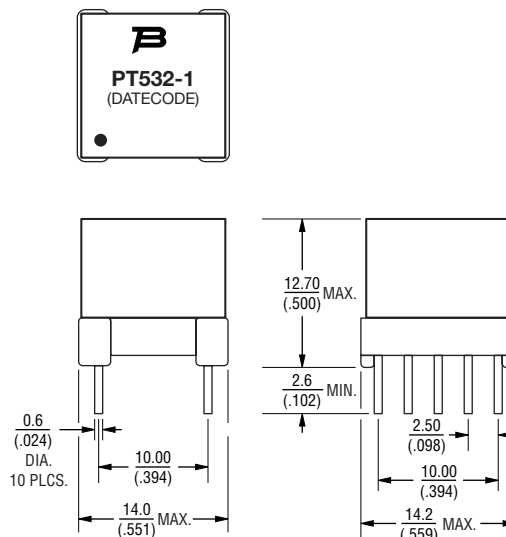
**SM531-1E or PT532-1**

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

### Product Dimensions



### THT



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

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