

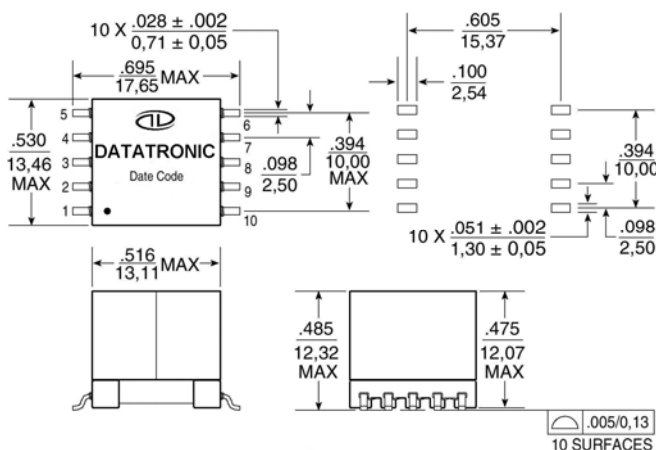
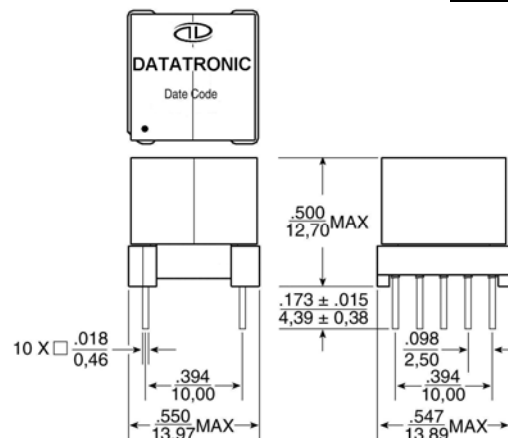
**SM531-1 and PT532-1 ADSL Line Transformers**

**Features**

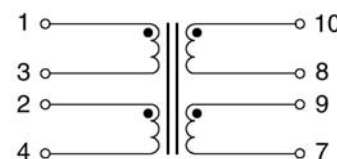
- For use with Analog Devices AD20msp918 ADSL Chipset
- Excellent Total Harmonic Distortion (THD) performance in a small size
- Both SMD and Thru-Hole Package Version
- Designed to meet UL1950 and EN60950 Supplementary Insulation requirements for voltages up to 250Vrms maximum

**ELECTRICAL SPECIFICATIONS AT 25°C:**
**OPERATING TEMP: 0°C TO 70°C**

URNS RATIO	1 : 1.27±2%
OCL @10kHz, 0.1V	
(1-4) WITH (2-3) SHORTED	1.80mH MIN
(10-7) WITH (8-9) SHORTED	2.90mH MIN
LEAKAGE INDUCTANCE @100kHz 0.1V	
(1-4) WITH (2-3), (8-9), (10-7) SHORTED	7.5μH MAX
LONGITUDINAL BALANCE 30kHz – 1.1MHz	50dB MIN
INSERTION LOSS @100kHz	<0.5dB
ISOLATION VOLTAGE (MAX)	1500 Vrms
LOAD RESISTANCE	100Ω
DC RESISTANCE (1-4), (10-7)	2Ω MAX
THD LINEARITY @30kHz	-80dB TYP
PACKAGE	SMT

**OUTLINE DIMENSIONS**
**SMT**

**THT**

**NOTES:**

1. Dimensions are shown in inches/millimeters  
Unless otherwise specified, tolerance = Inches: ±0.010  
= Millimeters: ±0.25
2. For non-RoHS parts replace SM prefix with 42- (e.g. SM531-1 becomes 42-531-1)
3. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.


**SCHEMATIC**