



## SM536-1 ADSL Line Transformers



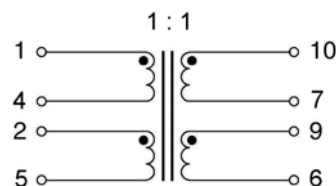
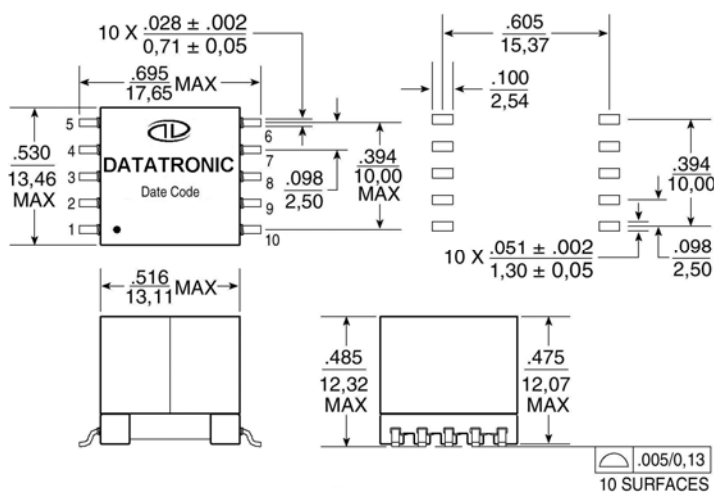
### Features

- For use with Globespan G7000 ADSL Chipset in customer premise applications
- Excellent Total Harmonic Distortion (THD) Performance in small size
- SMT and Small size package
- Designed to meet IEC950 supplementary insulation requirement for voltages up to 250 Vrms maximum

### ELECTRICAL SPECIFICATIONS AT 25°C:      OPERATING TEMP: -40°C to +85°C

URNS RATIO	1 : 1±2%
OCL @10kHz, 0.1V	
(1-5) WITH (2-4) SHORTED	430μH±10%
(10-6) WITH (9-7) SHORTED	430μH±10%
LEAKAGE INDUCTANCE @100kHz 0.1V	
(1-5) WITH (2-4), (7-9), (10-6) SHORTED	10.0μH MAX
LONGITUDINAL BALANCE	
25kHz TO 1.1MHz	40dB MIN
INSERTION LOSS @772kHz	<0.5dB
ISOLATION VOLTAGE (MAX)	1875 Vrms
LOAD RESISTANCE	100Ω
DC RESISTANCE	
(1-4)=(2-5)	0.45Ω MAX
(10-7)=(9-6)	0.35Ω MAX
THD LINEARITY @100kHz	-80dB TYP

### OUTLINE DIMENSIONS



**SCHEMATIC**

- 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. SM536-1 becomes 42-536-1)
  3. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.