



SM537-1 ADSL Line Transformers



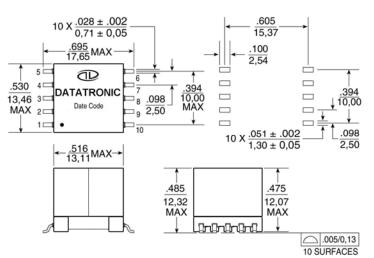
Features

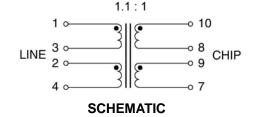
- For use with Analog Devices AD20msp930 ADSL Chipset (Central Office)
- Excellent Total Harmonic Distortion (THD) Performance
- SMT and Small size package
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for voltages up to 250 Vrms maximum

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

TURNS RATIO (10-7):(1-4)	1 : 1.1±2%
OCL @10kHz, 0.1V	
(1-4) WITH (2-3) SHORTED	2.03mH MIN
(10-7) WITH (8-9) SHORTED	1.75mH MIN
LEAKAGE INDUCTANCE @100kHz 0.1V	
(10-7) WITH (2-3), (1-4), (8-9) SHORTED	7.5μH MAX
LONGITUDINAL BALANCE	
10kHz TO 1.1MHz	50dB MIN
INSERTION LOSS @300kHz	<0.5dB
ISOLATION VOLTAGE (MAX)	1500 Vrms
LOAD RESISTANCE	100Ω
DC RESISTANCE	
(1-4) WITH (2-3) SHORTED	1.30Ω MAX
(10-7) WITH (8-9) SHORTED	1.50Ω MAX
THD LINEARITY @30kHz	-80dB TYP
APPLICATION	CO

OUTLINE DIMENSIONS





NOTES:

- 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. SM537-1 becomes 42-537-1)
 Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.

DATATRONIC:

28151 Highway 74, Romoland, CA 92858 Tel: 951-928-7700 Toll Free: 888-889-5391 Fax: 951-928-7701 Email: ddisales@datatronics.com