

Features

- For use with Analog Device's AD20msp930 ADSL chipsets
- Excellent Total Harmonic Distortion (THD) performance
- SMT package and small size
- Operating temperature -40 °C to +85 °C
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for operating voltages up to 250 Vrms
- RoHS compliant*

Applications

- ADSL - Analog AD20msp930

SM561-1L & SM562-1L ADSL Line Transformers

Electrical Specifications @ 25 °C

Turns Ratio (1-4):(10-7)
 SM561-1L 1:1.1 ±2 %
 SM562-1L 1:1.2 ±2 %

OCL @ 10 KHz, 0.1 V
 (1-4) with (2-3) shorted
 1.75 mH min.
 (10-7) with (8-9) shorted
 SM561-1L 2.03 mH min.
 SM562-1L 2.42 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
 10 kHz to 1.1 MHz 50 dB min.

Insertion Loss @ 300 kHz < 0.5 dB

Isolation Voltage 1500 Vrms max.

Load Resistance 100 W

DC Resistance
 (1-4) 1.5 W max.
 (10-7) 1.3 W max.

THD Linearity @ 30 KHz -80 dB typ.

Application
 SM561-1L CO
 SM562-1L CPE

Packaging Specifications

Tape & Reel* 200 pcs./reel

**"E" suffix before "L" in part number designates tape & reel packaging, e.g. SM561-1EL.

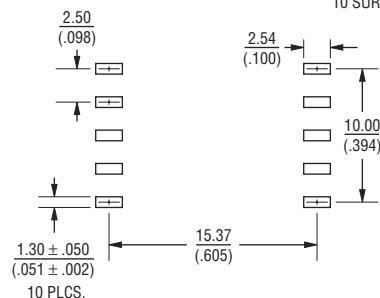
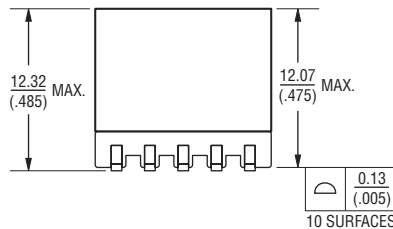
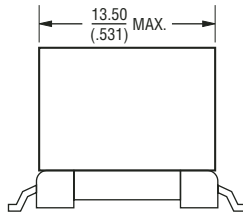
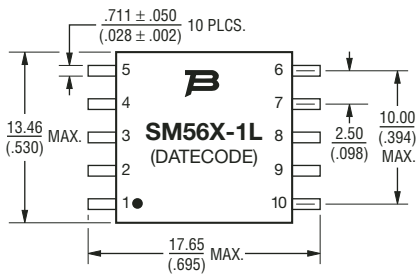
How To Order

Model _____ **SM56x-1E L**

Termination _____

L = Tin only (lead free)

Product Dimensions



Recommended PAD layout

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

TOLERANCE ± $\frac{0.25}{(.010)}$

Electrical Schematic

