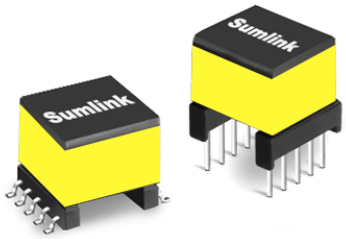
ADSL LINE TRANSFORMERS

FEATURES

- ST-S2031/ST-S2032 Recommended by Analog Devices for use with their AD20msp910/AD20msp918 ADSL Chipsets
- ST-S2136/ST-S2137/ST-S2168/ST-S2188 Recommended by Analog Devices for use with their AD20msp930 Chipsets
- Excellent THD performance in a small footprint



Electrical Specifications @ 25°C — Operating Temperature -40°C to 85°C

Part Number	Mounting	Application	Turns Ratio (1-4):(10-7) (± 2%)	OCL @ 10 KHz, 0.1 V (1-4) with 2-3 shorted	Leakage Inductance @ 100 KHz, 0.1 V (MAX) (1-4) with 2-3, 8-9, 10-7 shorted	Longitudinal Balance (10 KHz - 1.1 MHz)
ST-S2031	THT	ADSL	1:1	5.0 mH	18.0 µH	40 dB MIN
ST-S2032	SMT	ADSL	1:1	5.0 mH	18.0 µH	40 dB MIN
ST-S2136	THT	ADSL	1:1.1	1.75 mH	7.5 µH	50 dB MIN
ST-S2137	SMT	ADSL	1:1.1	1.75 mH	7.5 µH	50 dB MIN
ST-S2168	SMT	ADSL/ISDN	1:1	100 µH	4.0 µH	46 dB MIN
ST-S2188	THT	ADSL/ISDN	1:1	100 µH	4.0 µH	46 dB MIN

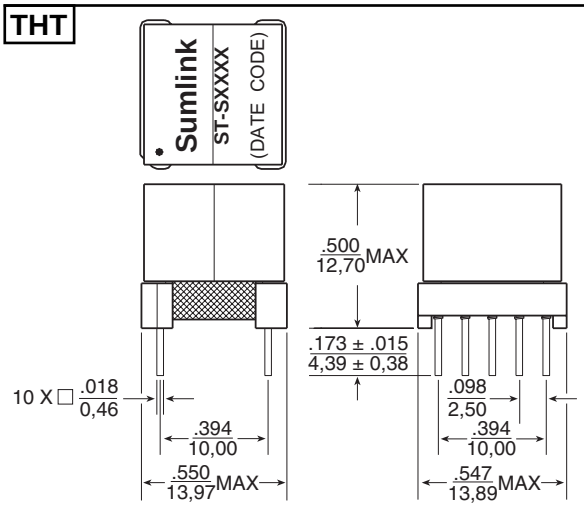
Additional Specifications

Part Number	THD Typical (Linearity)	DC Resistance (Ω - MAX)		Isolation Voltage (Vrms)	Insertion Loss [1] (dB @ 300 KHz)
ST-S2031	-80 dB @ 30 KHz	3.0 (1-4) with (2-3) short	3.0 (10-7) with (8-9) short	1500	<0.5
ST-S2032	-80 dB @ 300 KHz	3.0 (1-4) with (2-3) short	3.0 (10-7) with (8-9) short	1500	<0.5
ST-S2136	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (8-9) short	1500	<0.5
ST-S2137	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (8-9) short	1500	<0.5
ST-S2168	-80 dB @ 30 KHz	1.0 (1-4) = (2-3)	1.0 (10-8) = (9-7)	1500	<0.5
ST-S2188	-80 dB @ 100 KHz	1.0 (1-4) = (2-3)	1.0 (10-8) = (9-7)	1500	<0.5

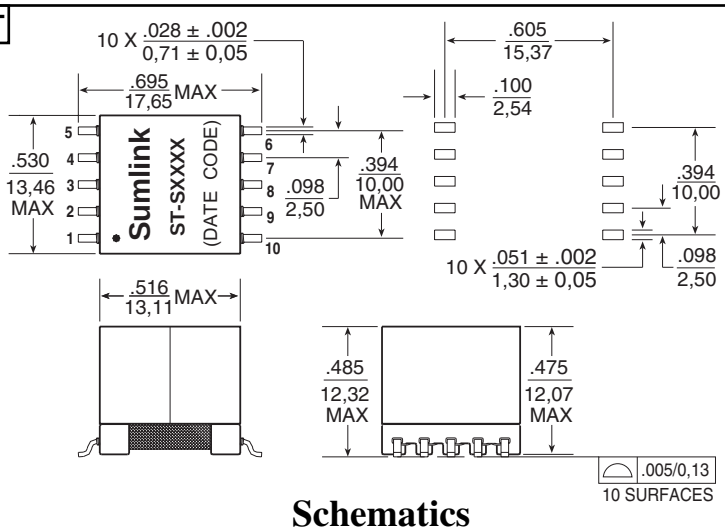
[1] **FrequencyResponse:** ± 1.0 dB MAX, from 30 KHz to 1.1 MHz.

Mechanicals

THT



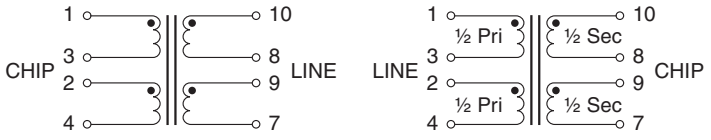
SMT



Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25

Schematics



ST-S2031/ST-S2032
ST-S2136/ST-S2137

ST-S2168/ST-S2188