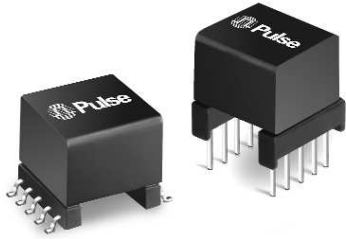


# ADSL LINE TRANSFORMERS

## For Analog Devices AD20msp930 Chipset



- Compatible with ADSL and ADSL over ISDN Central Office Applications
- Excellent THD performance in a small footprint
- Designed to meet UL1950 and EN60950 supplementary insulation requirements for working voltages up to 250 Vrms

### 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)
B2136	THT	ADSL	1:1.1	1.75 mH	7.5 µH	50 dB MIN
B2137 <sup>2</sup>	SMT	ADSL	1:1.1	1.75 mH	7.5 µH	50 dB MIN
B2168 <sup>2</sup>	SMT	ADSL/ISDN	1:1	100 µH	4.0 µH	46 dB MIN
B2188	THT	ADSL/ISDN	1:1	100 µH	4.0 µH	46 dB MIN

### Additional Specifications

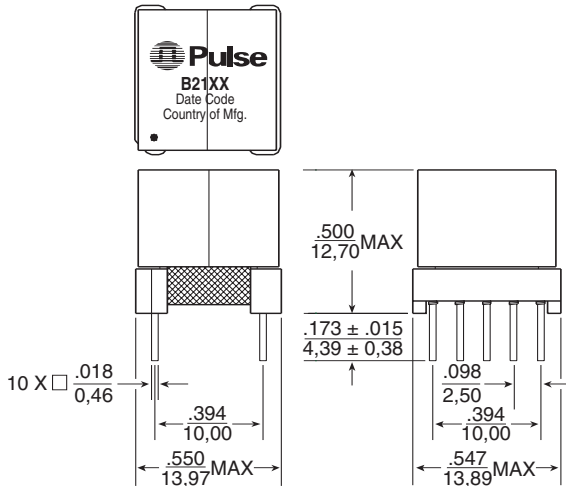
Part Number	THD Typical (Linearity)	DC Resistance (Ω - MAX)		Isolation Voltage (Vrms)	Insertion Loss <sup>1</sup> (dB @ 300 KHz)
B2136	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (8-9) short	1500	<0.5
B2137 <sup>2</sup>	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (8-9) short	1500	<0.5
B2168 <sup>2</sup>	-80 dB @ 30 KHz	1.0 (1-4) = (2-3)	1.0 (10-8) = (9-7)	1500	<0.5
B2188	-80 dB @ 100 KHz	1.0 (1-4) = (2-3)	1.0 (10-8) = (9-7)	1500	<0.5

<sup>1</sup> Frequency Response: ± 1.0 dB MAX, from 30 KHz to 1.1 MHz.

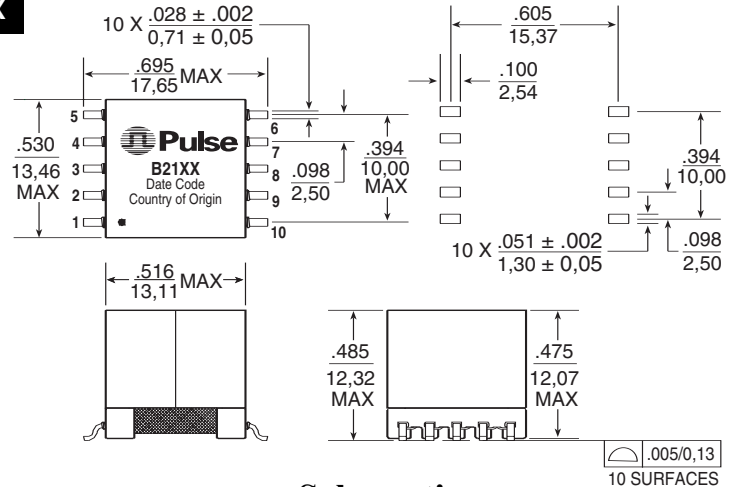
<sup>2</sup> Transformers are shipped in trays, unless Tape & Reel packaging is specified by adding the suffix "T" to this part number (B2137T)

### Mechanicals

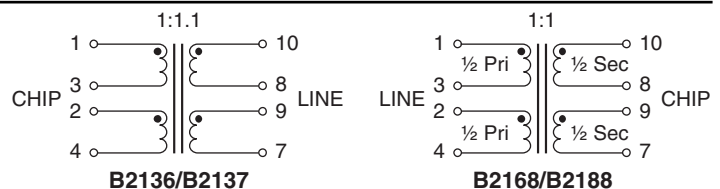
#### B21XX



#### B21XX



### Schematics



Weight ..... 6.2 grams  
 Tape & Reel ..... 150/reel  
 Tray ..... 60/tray (SMT) ..... 65/tray (THT)

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are ±  $\frac{.010}{0.25}$

### For More Information :

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