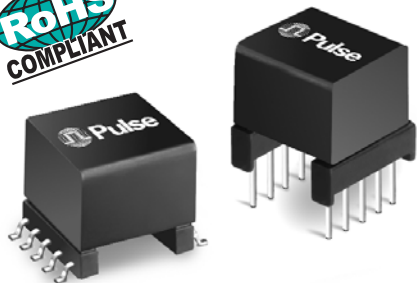





# ADSL LINE TRANSFORMERS



-  Recommended by Analog Devices for use with their AD20msp910/AD20msp918 ADSL Chipsets
-  Excellent THD performance in a small footprint
-  Approved to UL1950 and EN60950 supplementary insulation requirements for working voltages up to 250Vrms

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

RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	Mounting	Turns Ratio (±2%)	OCL @ 10kHz, 0.1V (mH ±10%)		Leakage Inductance @ 100kHz, 0.1V (MAX) (1-4) with 2-3, 8-9, 10-7 shorted	Longitudinal Balance (25kHz - 1.1MHz)
				(1-4) w/2-3 shorted	(10-7) w/8-9 shorted		
B2031	B2031NL	THT	1:1	5.0	5.0	18.0µH	40dB MIN
B2032	B2032NL	SMT	1:1	5.0	5.0	18.0µH	40dB MIN

## Additional Specifications

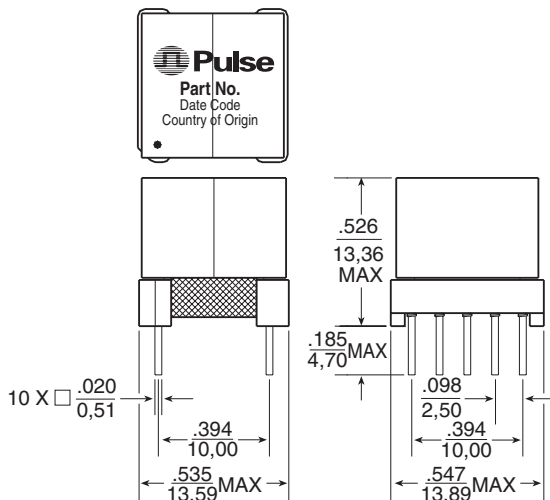
RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	THD (Linearity)	Load Resistance (Ω)	DC Resistance (1-4), (10-7)	Isolation Voltage (Vrms)	Insertion Loss <sup>1</sup> (dB @ 100kHz)
B2031	B2031NL	-80dB @ 30kHz	100	3Ω MAX	1500	<0.5
B2032	B2032NL	-60dB @ 300kHz	100	3Ω MAX	1500	<0.5

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

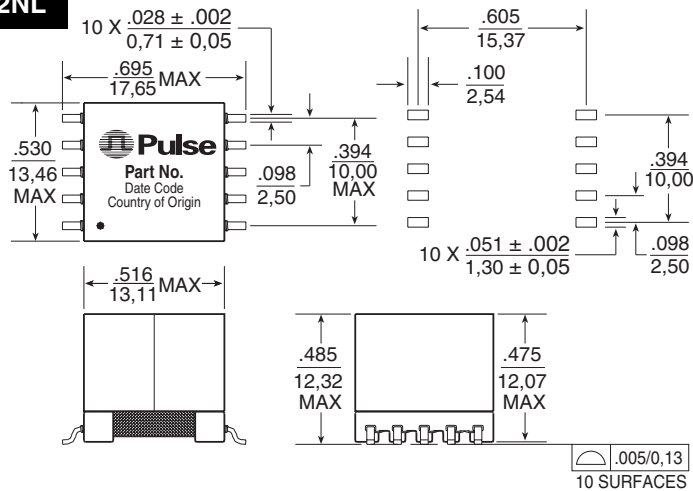
NOTE: Please add the suffix "T" for Tape & Reel orders (i.e. B2032 becomes B2032T and B2032NL becomes B2032NLT).

## Mechanicals

### B2031 / B2031NL



### B2032 / B2032NL



Weight ..... 6.2 grams

Tray ..... .60/tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

## For More Information:

### Pulse Worldwide Headquarters

12220 World Trade Drive  
San Diego, CA 92128  
U.S.A.  
[www.pulseeng.com](http://www.pulseeng.com)  
TEL: 858 674 8100  
FAX: 858 674 8262

### Pulse Northern Europe

3 Huxley Road  
Surrey Research Park  
Guildford, Surrey GU2 5RE  
United Kingdom  
TEL: 44 1483 401700  
FAX: 44 1483 401701

### Pulse Southern Europe

Zone Industrielle  
F-39270  
Orgelet  
France  
TEL: 33 3 84 35 04 04  
FAX: 33 3 84 25 46 41

### Pulse China Headquarters

No. 1  
Industrial District  
Changan, Dongguan  
China  
TEL: 86 769 85538070  
FAX: 86 769 85538870

### Pulse North China

Room 1503  
XinYin Building  
No. 888 YiShan Road  
Shanghai 200233  
China  
TEL: 86 21 54643211/2  
FAX: 86 21 54643210

### Pulse South Asia

150 Kampong Ampat  
#07-01/02  
KA Centre  
Singapore 368324  
TEL: 65 6287 8998  
FAX: 65 6280 0080

### Pulse North Asia

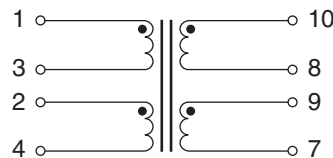
No. 26  
Kao Ching Road  
Yang Mei Chen  
Taoyuan Hsien  
Taiwan, R. O. C.  
TEL: 886 3 4641811  
FAX: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2006. Pulse Engineering, Inc. All rights reserved.

[www.pulseeng.com](http://www.pulseeng.com)

## Schematic



B906.B (5/06)