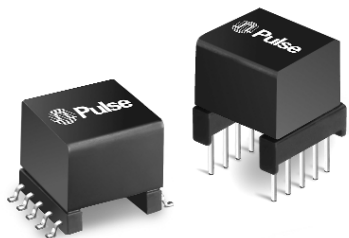





# ADSL LINE TRANSFORMERS

## 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) ( $\pm 2\%$ )	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 $\mu$ H	50 dB MIN
B2137 <sup>2</sup>	SMT	ADSL	1:1.1	1.75 mH	7.5 $\mu$ H	50 dB MIN
B2168 <sup>2</sup>	SMT	ADSL/ISDN	1:1	100 $\mu$ H	4.0 $\mu$ H	46 dB MIN
B2188	THT	ADSL/ISDN	1:1	100 $\mu$ H	4.0 $\mu$ H	46 dB MIN

### Additional Specifications

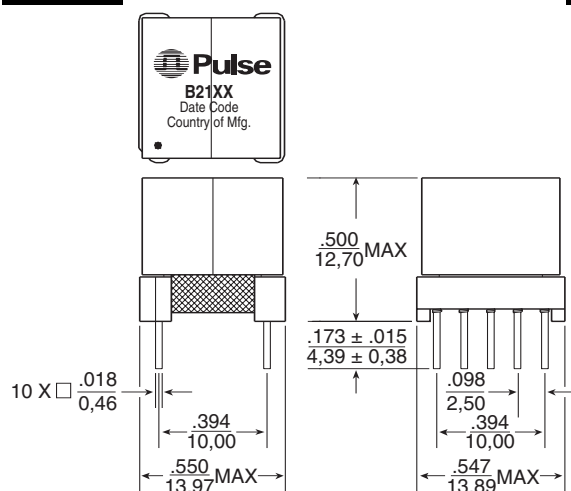
Part Number	THD Typical (Linearity)	DC Resistance ( $\Omega$ - MAX)		Isolation Voltage (Vrms)	Insertion Loss <sup>1</sup> (dB @ 300 KHz)
B2136	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (8-9) short	1500	<0.5
B2137 <sup>2</sup>	-80 dB @ 30 KHz	1.5 (1-4) with (2-3) short	1.3 (10-7) with (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:  $\pm 1.0$  dB MAX, from 30 KHz to 1.1 MHz.

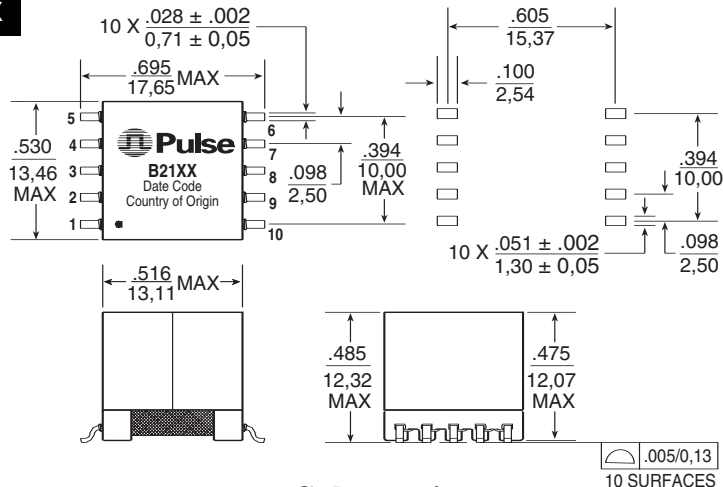
<sup>2</sup> Transformers are shipped in trays, unless Tape & Reel packaging is specified by adding the suffix "T" to this part number (B2137T)

### Mechanicals

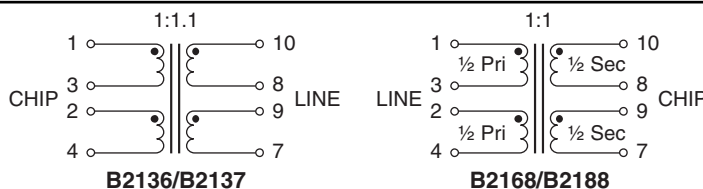
#### B21XX



#### 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  $\pm \frac{.010}{.025}$

### For More Information :

<b>UNITED STATES</b> (Worldwide) 12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	<b>UNITED KINGDOM</b> (Northern Europe) 1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	<b>FRANCE</b> (Southern Europe) Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	<b>SINGAPORE</b> (Southern Asia) 150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 6287 8998 FAX: 65 6280 0080	<b>TAIWAN, R.O.C.</b> (Northern Asia) 3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	<b>HONG KONG</b> (China/Hong Kong) 9/F, Phase 2, Tai Sang Shatin Warehouse Centre 6 Wong Chuk Yeung Street Fotan, Shatin, Hong Kong TEL: 852 2788 6588 FAX: 852 2776 1055	<b>DISTRIBUTOR</b>
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