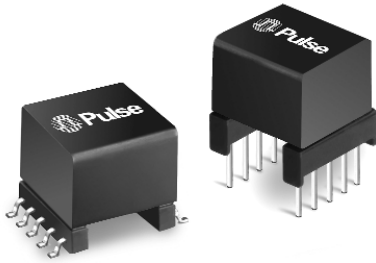


ADSL LINE TRANSFORMERS



- Recommended by Analog Devices for use with their AD20msp930 ADSL Chipset
- 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 (mH - MIN)		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)
				(1-4) with 2-3 shorted	(10-7) with 8-9 shorted		
B2136	THT	CO	1:1.1	1.75	2.03	7.5 µH	50 dB MIN
B2137 ²	SMT	CO	1:1.1	1.75	2.03	7.5 µH	50 dB MIN
B2156	THT	CPE	1:1.2	1.75	2.42	7.5 µH	50 dB MIN
B2157 ²	SMT	CPE	1:1.2	1.75	2.42	7.5 µH	50 dB MIN

Additional Specifications

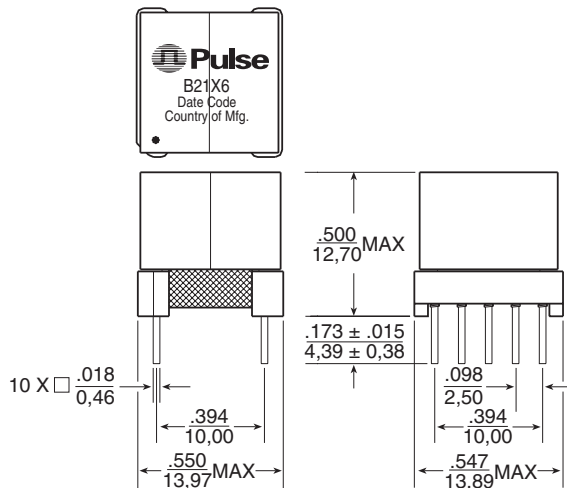
Part Number	THD Typical (Linearity)	Load Resistance (Ω)	DC Resistance (Ω - MAX)		Isolation Voltage (Vrms)	Insertion Loss ¹ (dB @ 300 KHz)
			(1-4)	(10-7)		
B2136	-80 dB @ 30 KHz	100	1.5	1.3	1500	<0.5
B2137 ²	-80 dB @ 30 KHz	100	1.5	1.3	1500	<0.5
B2156	-80 dB @ 30 KHz	100	1.5	1.3	1500	<0.5
B2157 ²	-80 dB @ 30 KHz	100	1.5	1.3	1500	<0.5

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

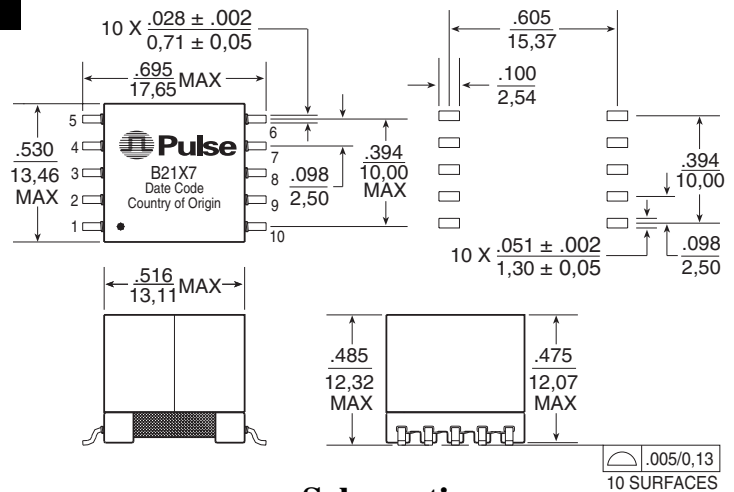
² Transformers are shipped in trays, unless Tape & Reel packaging is specified by adding the suffix "T" to this part number (B2137T)

Mechanicals

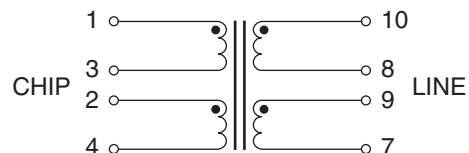
B21X6



B21X7



Schematic



Weight 6.2 grams
Tape & Reel 150/reel
Tray60/tray (SMT)65/tray (THT)

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

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PRELIMINARY B955.P (2/00)