

# ADSL LINE TRANSFORMERS

## For Use With Texas Instruments' Chipsets



- Matched to Texas Instruments' AC5 chipset
- Excellent THD performance in a small footprint
- Designed to meet UL1950 and EN60950 for 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	Application	Turns Ratio	Interwinding Capacitance @ 100kHz, 0.1Vrms	OCL (1-4) w/(2-3) short	Leakage Inductance @ 100kHz, 0.1V (1-4) w/(2-3), (6-7), (5-8) short
B2205	B2205NL	SMT	CO	1:1.9 ±2%	16pf MAX	400µH ±5% @ 0.1V, 100kHz	7.5µH MAX
BX2375	—	SMT	CO; ADSL over ISDN	1:1.9 ±3%	22pf MAX	92.5µH ±5% @ 0.1V, 10kHz	3.2µH MAX

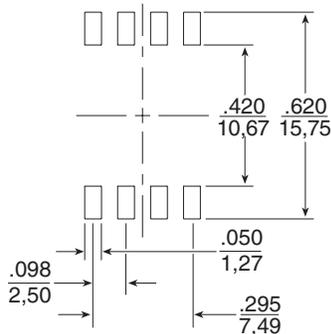
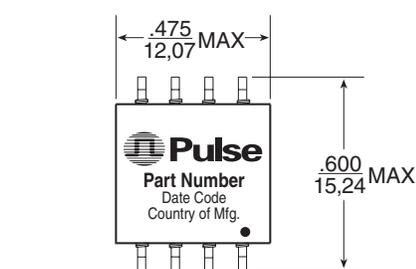
### Additional Electrical Specifications

RoHS-5 Compliant Part No.	RoHS-6 Compliant Part No.	THD (100kHz, 5.3Vrms)	DC Resistance		Isolation Voltage (Vrms)	Longitudinal Balance @ 100kHz
			Line Side (1-4) w/(2-3) short	Chip Side (5-8) w/(6-7) short		
B2205	B2205NL	≤-80dB	≤1.10Ω MAX	≤1.10Ω MAX	1500	≤-60dB
BX2375	—	≤-80dB	≤0.65Ω MAX	≤0.37Ω MAX	1500	≤-60dB

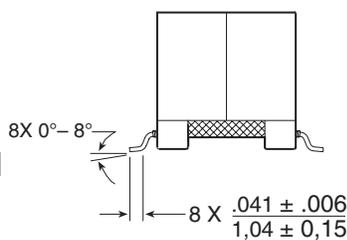
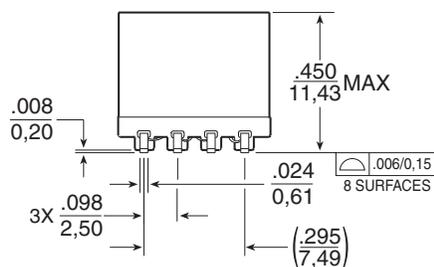
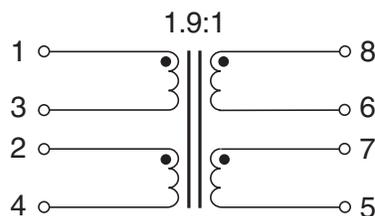
NOTE: Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. B2205T and B2205NLT).

## Mechanical

## Schematic



SUGGESTED PAD LAYOUT



Weight . . . . . 3.4 grams  
 Tray . . . . . .75/tray  
 Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0.25}$

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