

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 250 Vrms

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

Part Number	Mounting	Application	Turns Ratio	Interwinding Capacitance @ 100 kHz, 0.1 Vrms	OC (1-4) with (2-3) short	Leakage Inductance @ 100 kHz, 0.1 V (1-4) with (2-3), (6-7) & (5-8) short
B2205	SMT	CO	1:1.9 ± 2%	15 pF MAX	400 µH ± 5% @ 0.1 V, 100 kHz	7.5 µH MAX
BX2375	SMT	CO; ADSL over ISDN	1:1.9 ± 3%	22 pF MAX	92.5 µH ± 5% @ 0.1 V, 10 kHz	3.2 µH MAX

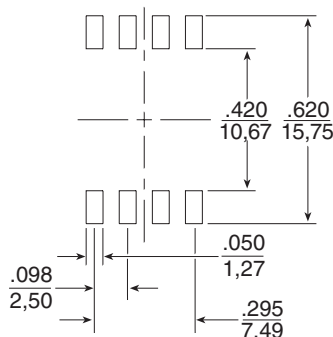
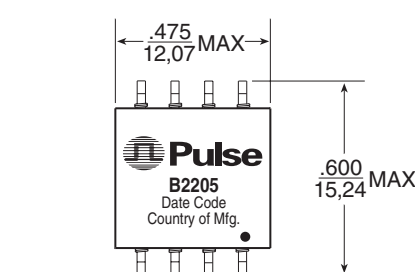
Additional Electrical Specifications

Part Number	THD (100 kHz, 5.3 Vrms)	DC Resistance		Isolation Voltage (Vrms)	Longitudinal Balance @ 100 kHz
		Line Side (1-4) with (2-3) short	Chip Side (5-8) with (6-7) short		
B2205	≤ -80 dB	≤ 1.00 Ω MAX	≤ 1.00 Ω MAX	1500	≤ -60 dB
BX2375	≤ -80 dB	≤ 0.65 Ω MAX	≤ 0.37 Ω MAX	1500	≤ -60 dB

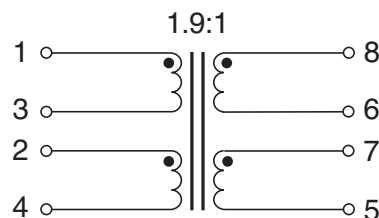
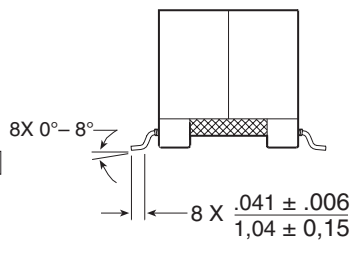
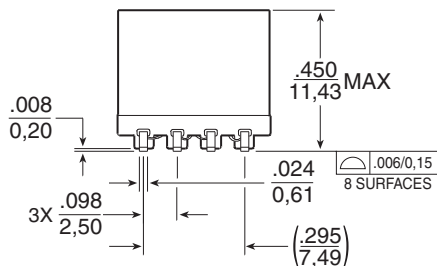
NOTE: Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. B2205T).

Mechanical

Schematic



SUGGESTED PAD LAYOUT



Weight 3.4 grams

Tray75/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are ± $\frac{.010}{.025}$

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