

ADSL LINE TRANSFORMERS

For Centillium ADSL CPE Chipsets



- Matched to Centillium's CopperFlite™ CT-L51ST81, Flite Optimizer™ CT-L52SU81, and Universal CopperFlite™ CT-L61ST81 chipsets
- 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	Turns Ratio ($\pm 2\%$)	Inductance @ 10 kHz, 100 mV	Leakage Inductance @ 100 kHz, 0.1 Vrms
BX2258	SMT	1CS:1CS (1-5) : (7-10) with (2-4) & (8-9) Shorted	5.0 mH $\pm 10\%$ (7-10) with (8-9) Shorted	15 μ H Max (1-2) with (4-5), (7-10), & (8-9) Shorted
BX2259	SMT	1CS:2.125CS (1-4) : (6-10) with (2-3) & (7-9) Shorted	5.0 mH $\pm 10\%$ (6-10) with (7-9) Shorted	10 μ H Max. (9-10) with (1-4), (2-3), & (6-7) Shorted
BX2353	SMT	1CS:2.125CS (1-4) : (7-10) with (2-3) & (8-9) Shorted	5.0 mH $\pm 10\%$ (7-10) with (8-9) Shorted	13 μ H Max. (7-10) with (1-4), (2-3), & (8-9) Shorted
BX2358	SMT	1CS:1CS (1-4) : (7-10) with (2-3) & (8-9) Shorted	5.0 mH $\pm 10\%$ (7-10) with (8-9) Shorted	15 μ H Max. (7-10) with (1-4), (2-3), & (8-9) Shorted

Additional Electrical Specifications

Part Number	Longitudinal Balance (from 30 kHz to 1.1 MHz)	THD at 100 Ω (@ 30 kHz, 2.5 Vrms)	DC Resistance		Isolation Voltage (1 sec)
BX2258	≤ -40 dB	≤ -85 dB	1.3 Ω MAX (1-2) 1.6 Ω MAX (4-5)	1.5 Ω MAX (7-9) = (8-10)	1,875 Vrms
BX2259	≤ -40 dB	≤ -85 dB	0.35 Ω MAX (1-3) 0.40 Ω MAX (2,4)	1.75 Ω MAX (6-7) = (9-10)	1,875 Vrms
BX2353	≤ -40 dB	≤ -85 dB	0.35 Ω MAX (1-3) 0.40 Ω MAX (2-4)	1.75 Ω MAX (7-9) = (8-10)	1,875 Vrms
BX2358	≤ -40 dB	≤ -85 dB	1.0 Ω MAX (1-3) 1.3 Ω MAX (2-4)	1.1 Ω MAX (7-9) = (8-10)	1,875 Vrms

NOTE: Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. BX2258T).

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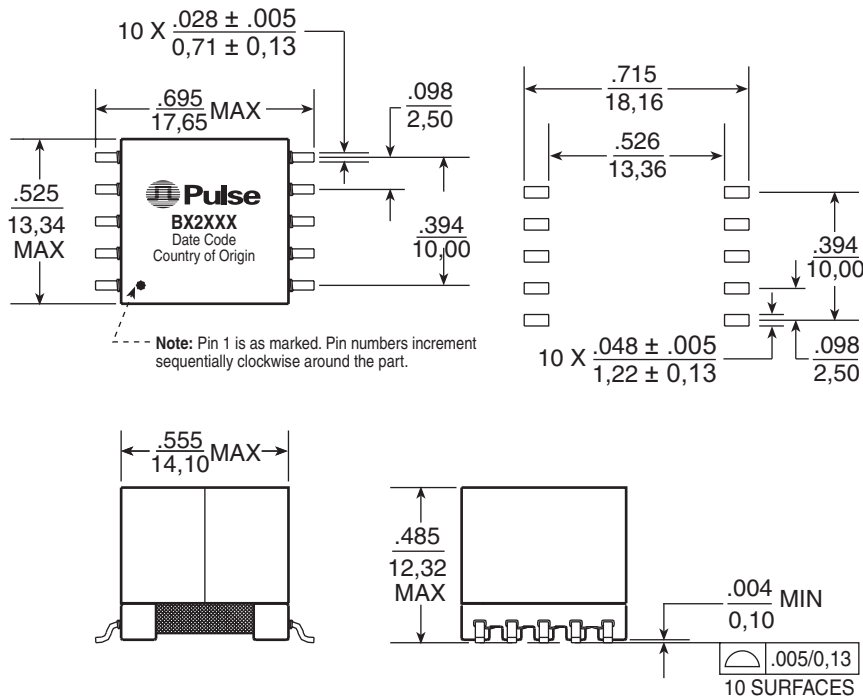
For Centillium ADSL CPE Chipsets



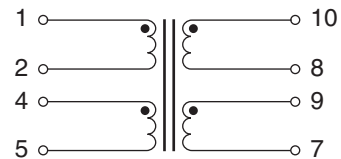
Mechanical

Schematics

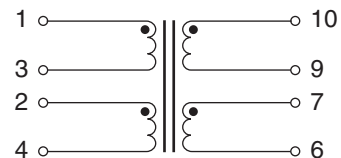
BX2XXX



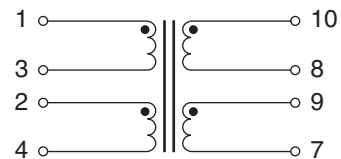
BX2258



BX2259



BX2353/BX2358



Weight6.2 grams

Tape & Reel150/reel

Tray60/tray

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

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

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