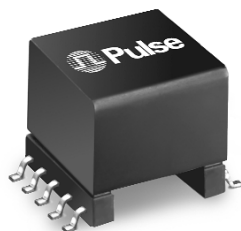


ADSL LINE TRANSFORMERS

For Use With Centillium Chipsets



- For use with Centillium's CopperFlite™ CT-L50SC04/CT-L50ST81 and CopperLite™ CT-L21SC08/CT-L41SC04 chipsets
- Excellent THD performance
- Small footprint

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

Part Number	Mounting	Matched to Chipset Number	Application	Turns Ratio (± 2%) (line - chip)	OCL (± 10%) (1-4) with (2-3) short	Leakage Inductance @ 100 KhZ, 0.1 V (1-4) with (2-3), (7-10) and (8-9) short
B2178	SMT	CT-L21SC08/CT-L41SC04	CO	1:1	450 µH @ 10 KhZ, 0.1 V	5.0 µH MAX
B2189	SMT	CT-L50SC04/CT-L50ST81	CO/CPE	1.8:1	450 µH @ 30 KhZ, 0.1 V	7.0 µH MAX

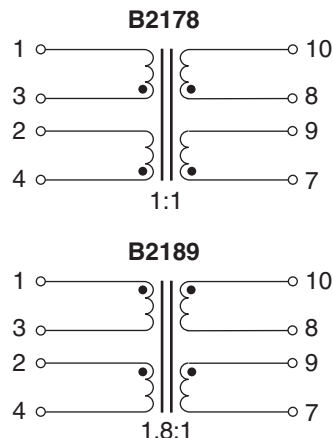
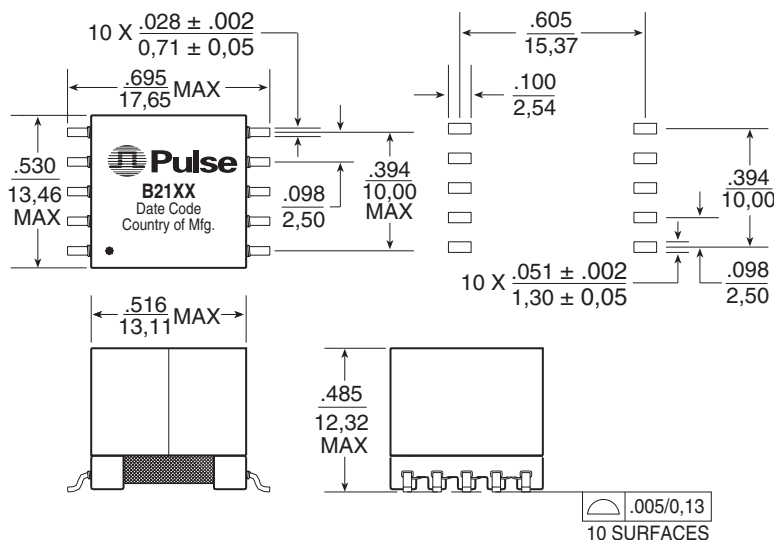
Additional Electrical Specifications

Part Number	THD (Linearity TYP - 10 kHz, 3.0 Vrms)	DC Resistance		Isolation Voltage (Vrms)	Longitudinal Balance (from 10 kHz to 1.1 MHz)
		Line Side (1-4) with (2-3) short	Chip Side (10-7) with (9-8) short		
B2178	≤ -67 dB	≤ 1.3 Ω MAX	≤ 1.3 Ω MAX	1500	≤ -50 dB
B2189	≤ -67 dB	≤ 1.3 Ω MAX	≤ 0.9 Ω MAX	1500	≤ -50 dB

NOTE: Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. B2178T).

Mechanical

Schematics



Weight6.2 grams

Tray60/tray

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

Unless otherwise specified,
all tolerances are ± $\frac{.010}{0.25}$

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PRELIMINARY B979.P (4/01)