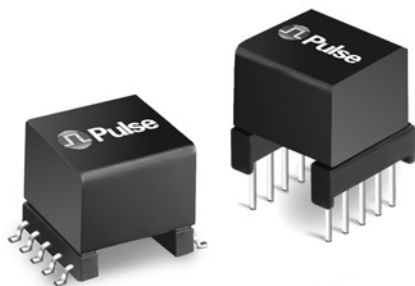


HDSL LINE TRANSFORMERS



-  For use with Conexant's RS8973 HDSL chipset
-  Excellent THD performance
-  Small footprint
-  Designed to meet UL 1950 and EN 60950 requirements for supplementary insulation and a 250 V working voltage

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

Part Number	Mounting	Turns Ratio Line - Chip (±2%)	Inductance - Line Side (@ 10 kHz, 100 mV) (1-5) with (2-4) shorted	Leakage Inductance - Line Side (@ 100 kHz, 0.2 Vrms) (1-5) with (2-4) and (7-9) shorted	DC Resistance	
					Line Side (1-4) = (2-5)	Chip Side (7-9)
B1020A	THT	2CS:1	2.0 mH ±6%	6.5 µH MAX	≤ 2.0 Ω	≤ 1.10 Ω
B1040A ¹	SMT	2CS:1	2.0 mH ±10%	6.5 µH MAX	≤ 1.6 Ω	≤ 1.05 Ω

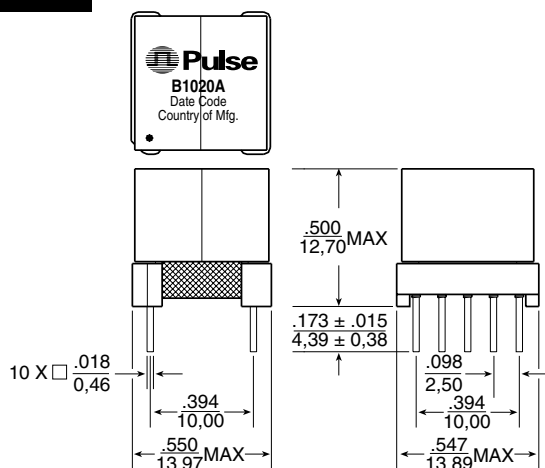
Additional Specifications

Part Number	Longitudinal Balance (from 30 KHz to 300 KHz)	THD (at 135 Ω) (at 10 kHz, 5.0 Vrms)	Insertion Loss (at 135 Ω) (from 30 kHz to 580 kHz)	Return Loss (at 135 Ω) (from 40 kHz to 300 kHz)	Isolation Voltage (Vrms)
B1020A	≤ -50 dB	≤ -70 dB	≤ 0.65 dB	≥ 16 dB	1500
B1040A ¹	≤ -50 dB	≤ -70 dB	≤ 0.65 dB	≥ 16 dB	1500

¹Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. B1040AT).

Mechanicals

B1020A



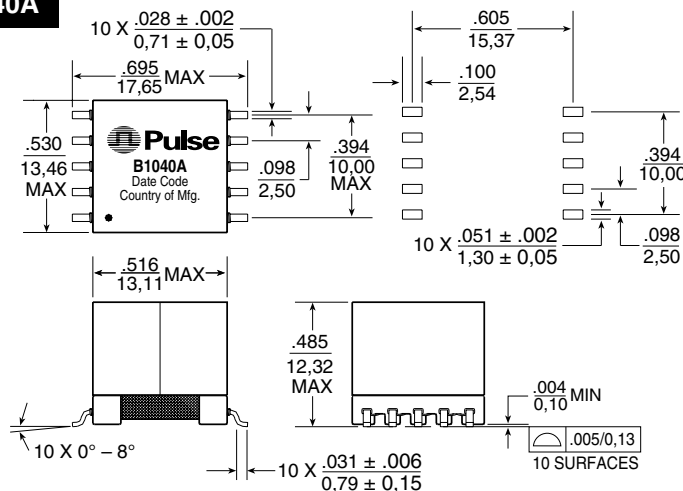
Weight 6.2 grams

Tray60/tray

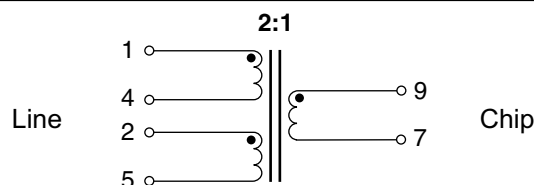
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are ± .010
0,25

B1040A



Schematic



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