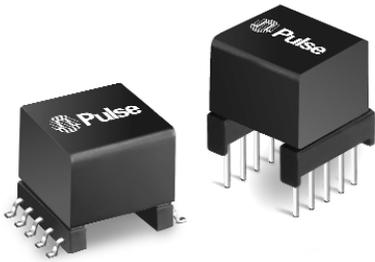


HDSL2/G.SHDSL TRANSFORMER

For Level One Chipsets



- ⊕ Matched to Level One's SK70743, LXT772 and LXT776 chipsets
- ⊕ Excellent THD performance
- ⊕ Maximum height .485" (12,32 mm)
- ⊕ Designed to meet UL 1950 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 Chip - Line (±2%)	Inductance - Line Side @ 10 kHz, 100 mV	Leakage Inductance - Line Side @ 100 kHz, 0.02 Vrms	DC Resistance	
					Line Side	Chip Side
B1056 ¹	SMT	1CT:3CS	2.0 mH ±10% ² (1-5) with (2-4) shorted	20 µH MAX (1-5) with (2-4) and (6,7,8,9) shorted	≤ 2.05 Ω MAX (1-4) = (2-5)	≤ 0.50 Ω MAX (1-4) = (2-5)
B1083	THT	1:3CS	2.25 mH ±10% (2-5) with (4-1) shorted	8 µH MAX (2-5) with (4-1) and (10-6) shorted	≤ 3.30 Ω MAX (2-4) = (1-5)	≤ 0.75 Ω MAX (10-6)

Additional Electrical Specifications

Part Number	Longitudinal Balance	THD	Interwinding Capacitance (@ 100 kHz, 0.1 Vrms)	Return Loss	Isolation Voltage
B1056 ¹	≤ -45 dB (20 KHz to 400 KHz)	≤ -70 dB (@ 10 kHz, 5.0 Vrms)	≤ 60 pF	≥ 16 dB (from 40 kHz to 300 kHz)	1500 Vrms
B1083	≤ -53 dB (10 KHz to 400 KHz)	≤ -71 dB (@ 15 kHz, 3.8 Vrms)	Not Specified	≥ 12 dB (from 50 kHz to 2 MHz)	1500 Vrms

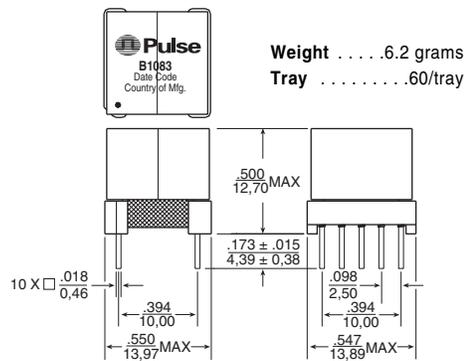
¹ Transformers are shipped in trays unless Tape & Reel packaging is specified by adding the suffix "T" to the part number (i.e. B1056T).

² DC bias current: 0 to 100 mA.

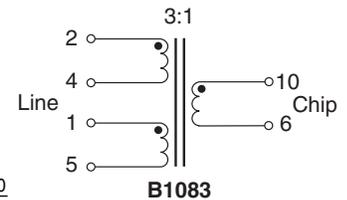
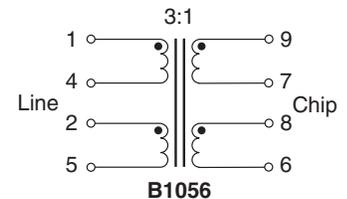
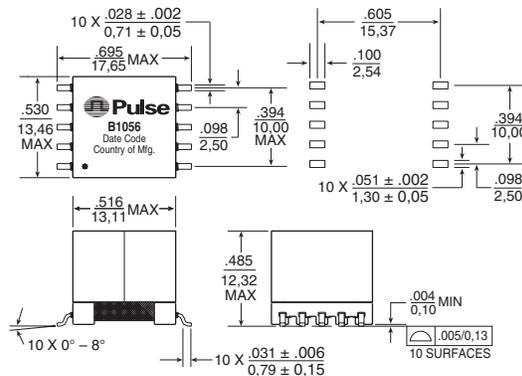
Mechanics

Schematics

B1083



B1056



Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

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PRELIMINARY B965.P (4/01)