

Pulse is developing new products for emerging technologies that will enable twisted pairs of cable to deliver broadband services to homes and businesses.

Listed below are new transformers, inductors, and common mode chokes for xDSL applications, as well as ADSL POTS low pass filters. The transformer designs exceed ANSI and ETSI standards, have excellent THD performance, and have small footprints. Surface mount models are available upon request. Most transformer models are UL1459 and UL1950 recognized with other safety agency approvals pending.

For detailed information, ask for data sheets B901, B902, B903, B905, B906, B909, and B930 or *Quick-Facts* documents #2901, #2902, #2903, #2905, #2906, #2909, and #2930.



xDSL: New Products for Emerging Technologies

HDSL TRANSFORMERS

Matched to Brooktree's BT8921, BT8952, BT8960, BT8970

Part Number	Matched to Brooktree	Application (2 pair)	Turns Ratio Chip-Line ($\pm 3\%$)	Inductance Line Side (mH $\pm 10\%$)	Data Sheet
THT					
PE-68621	BT8952	784 Kbps	2CT:1:1	3.0 ¹	B901
PE-68622	BT8952	1168 Kbps	2CT:1:1	2.0 ¹	B901
PE-69300	BT8921/BT8970	784 Kbps	1CT:1:1	3.0	B901
PE-69301	BT8921/BT8970	1168 Kbps	1CT:1:1	2.0	B901
B1001	BT8960	416 Kbps	1CT:1:1	3.5	B901
B1002	BT8960	288 Kbps	1CT:1:1	5.0	B901
B1004	BT8960	160 Kbps	1CT:1:1	8.0	B901

SMT

B1006	BT8921/BT8970	1168 Kbps	1CT:1:1	2.0	B901
B1007	BT8921/BT8970	784 Kbps	1CT:1:1	3.0	B901

1. (mH $\pm 6\%$)

NOTE: Package size is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H).

Matched to Level One's SK70704

Part Number	Matched to Level One	Application (2 pair)	Turns Ratio Chip-Line ($\pm 3\%$)	Inductance Line Side (mH $\pm 6\%$)	Data Sheet
THT					
PE-68614	SK70704	784 Kbps	1CT:1.8CTS	2.75	B901
PE-68650	SK70704	1168 Kbps	1CT:1.8CTS	2.06	B901

NOTE: Package size is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H).

ADSL INDUCTORS AND COMMON MODE CHOKES

Inductors for Use in ADSL POTS Low Pass Filters

Part Number	Inductance (mH $\pm 5\%$)	Resistance (Ω MAX)	Isolation Voltage (Vrms)	Mounting	Data Sheet
THT					
B2023	6.0	4.0	1500	THT	B902
B2024	4.0	3.0	1500	THT	B902
B2025	3.0	2.5	1500	THT	B902
B2026	10.0	6.0	1500	THT	B902

Common Mode Chokes for Use in ADSL POTS Low Pass Filters

Part Number	Inductance (mH $\pm 30\%$)	Resistance (Ω MAX)	Isolation Voltage (Vrms)	Mounting	Data Sheet
THT					
B2005	9.0	0.6	1500	THT	B902
SMT					
B2013	9.0	0.6	1500	SMT	B902

ADSL TRANSFORMERS

Matched to Globespan's ADSL Chipset

Part Number	Application*	Isolation Voltage (Vrms)	Turns Ratio Chip-Line	Inductance Chip-Side (μ H $\pm 10\%$)	Data Sheet
THT					
B2002	CO	1500	1.4:1.4:1:1	940	B903
B2006	CPE	1500	1:1:1:1	410	B903
B2007	CO	3000	1.4:1.4:1:1	940	B903
B2008	CPE	3000	1:1:1:1	410	B903
SMT					
B2011	CO	3000	1.4:1.4:1:1	940	B903
B2012	CPE	3000	1:1:1:1	410	B903

Matched to Analog Devices' AD20msp910 ADSL Chipset

Part Number	Application*	Isolation Voltage (Vrms)	Turns Ratio Chip-Line	Inductance Chip-Side (mH $\pm 10\%$)	Data Sheet
THT					
B2031	CO/CPE	1500	1:1	5	B906
SMT					
B2032	CO/CPE	1500	1:1	5	B906

Matched to Texas Instruments' TNETD2000/P/R/C ADSL Chipsets

Part Number	Application*	Isolation Voltage (Vrms)	Turns Ratio Chip-Line	Inductance Chip-Side (mH $\pm 5\%$)	Data Sheet
THT					
B2057	CO/CPE	1500	1:1	0.8	B909
SMT					
B2058	CO/CPE	1500	1:1	0.8	B909

Matched to Alcatel's ADSL Chipset

Part Number	Application*	Isolation Voltage (Vrms)	Turns Ratio Chip-Line	Inductance Chip-Side (μ H $\pm 5\%$)	Data Sheet
THT					
B2038	CPE	2000	1:1	440	B930

ADSL POTS LOW PASS FILTERS FOR CPE & CO

Part Number	Line/POTS Port Impedance	POTS Pass Band, Ripple (200-4000 Hz)	Return Loss in Passband (dB MIN)	POTS Loop Currents (mA DC)	Data Sheet
B2039	600 Ω CPE*	± 0.5 dB	20	100	B905
B2040	900 Ω CO*	± 0.5 dB	20	100	B905

NOTE: Compatible with all ADSL coding schemes. Compact package, includes connectors for ease of installation. Customized multiport line cards available for central office applications.