

ADSL TRANSFORMERS (continued)

ADSL Transformers & Chipsets (continued)

Part Number	Application*	Isolation Voltage (V _{RMS})	Turns Ratio Chip-Line	Inductance (μH ±10%)	Data Sheet
Conexant: Octane, G24 ADSL Chipsets with Legerity Drivers					
BX2510W ¹	CO	1500	1:0.408	750	B855
BX2516W ¹	CO	1500	1:0.408	1100	B855
BX2572W ¹	ADSL/ISDN CO	1500	1:0.408	100	B854
Conexant: Viking and Café CPE ADSL Chipsets					
BX2577L ¹	CPE	1500	1:4/1:2	700	B841
Infineon: PEB22716 - GEMINAX ADSL Chipset					
BX2274J ¹	CO	1500	1.33:1	1400	B812
BX2569L ¹	CO	1500	1.31:1	1400	B895
Infineon: Amazon ADSL Chipset					
BX2913LNL ¹	CPE	1500	1:4.2/1:2	1400	B889
BX2917LNL ¹	ADSL/ISDN CPE	1500	1:3/6/1:1.85	200	B889
Texas Instruments: TNETD4000C ADSL Chipset					
B2132 ¹	CO	1500	1:1.95	1500	B954
Texas Instruments: TNETD4500x ADSL Chipset					
B2243 ¹	CO	1500	1:2	400	B823
B2133 ¹	ADSL/ISDN CO	1500	1:2	75	B823
Texas Instruments: AC5, AC6 Chipset					
B2205 ¹	CO	1500	1:1.9	400 ²	B985
BX2375 ¹	ADSL/ISDN CO	1500	1:1.9	92.5	B985
Texas Instruments: AC7 CO Chipset					
BX2513W ¹	CO	1500	1:1.11	400 ²	B873
Texas Instruments: AP5, AR5, and AU5 Chipsets					
BX2361 ¹	CPE	1500	1:2	1500 ²	B988
BT2361 ¹	CPE	1500	1:2	1500 ²	B806
BX2382 ¹	CPE	1500	1:2	1500 ²	B988
Texas Instruments: AP7, AR7, and AU7 Chipsets					
BX2479H	CPE	1500	1:2	1500	B834
BX2479W ¹	CPE	1500	1:2	1500	B834
BX2243H	ADSL/ISDN CPE	1500	1:2	400	B834

1. When ordering Tape & Reel on SMT parts, add a "T" suffix to the part number.
2. ±5%
3. Alternative footprint options are on the data sheet.

HDSL2/G.SHDSL

Transformers

Part Number	Matched to:	Turns Ratio Chip-Line (±3%)	Inductance Line Side	Data Sheet
Infineon Chipsets				
B1093	PEB22622 PEF22623/24622 PEB22622	3.2:1:1	3.00	B993
B1063	PEF22623/24622	3.2:1:1	3.00	B993
BX1196L	Socrates	4.5:1	3.00	B888
BX1194W	PEB22622 PEF22623/24622	3.2:1:1	3.00	B835
Conexant Chipsets				
B1074B	Orion	1:5.4	3.00	B803



CUSTOMER PREMISE EQUIPMENT

DSL Microfilters

Part Number	Specification	Region
Z-330PJ	ANSI T1.421	North America
Z-369LS	Anatel Approved	Latin America
Z-470P2J	ETSI TS 101 952-1-5	Europe

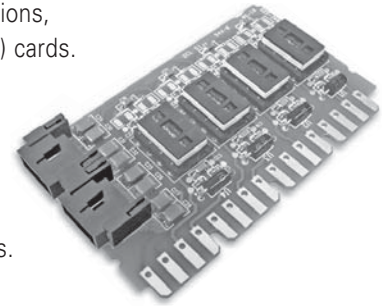
NOTE: See CPE section for additional products and applications.

CENTRAL OFFICE (CO*) DSL SPLITTER CIRCUITS FOR TELECOM APP

LOCATIONS

Our comprehensive line of CO splitter designs can be customized for various types of installations, including DSLAMs, rack-mount cards, cross-connect blocks, and main distribution frame (MDF) cards.

- Innovative, high-density designs, like the SmartER series, result in components that are one third the size of a typical design for this application.
- Delivers more channels on smaller cards.
- Scalable capacity from single-line to 96-lines.
- Customized solutions can be developed quickly, saving OEMs time and development costs.
- VDSL2 designs support TelcoTV and IPTV applications.



For assistance with a custom design, e-mail Pulse's Telecom Division at: prodinfo_telecom@pulseeng.com.

CO* & CPE* SPLITTER FILTER MODULES

SmartER™ xDSL

High-density, Low Pass, Splitter/Filter Modules



Common pinout 12mm x 11mm (0.472" x 0.433")

SmartER™ Series: ADSL, ADSL2+, VDSL, VDSL2 Low Pass Filter Modules for CO and CPE*

RoHS Part Number ¹	Standard/Applications	Note/Comment	Data Sheet
B8802NL	XDSL/POTS ANSI T1.413	CO short loop and CPE	B703
B8813NL	XDSL/POTS ANSI T1.413	CO short and long loops	B706
B8817NL	XDSL/POTS China MII YD/T1187	relaxed spec	B704
B8841NL	ADSL/POTS 600 W ETSI A&B	—	B898
B8842NL	XDSL/ISDN 2B1Q/4B3T	—	B705
B8845NL	XDSL/ISDN 4B3T + POTS DT complex	—	B708
B8846NL	ADSL/POTS ETSI B complex and BT SIN-346 complex	—	B899
B8849NL	ADSL/POTS ETSI A complex	—	B893
B8859NL	ADSL/POTS ETSI A complex	12 kHz billing tone	B701

1. **Contact** Pulse for custom CO splitter or MDF boards.

SMART™ Series: xDSL, Low Pass, Filter Modules¹ for CO and CPE*

Part Number	RoHS	Standard/Applications ²	Note/Comment	Data Sheet
—	B8041NL	ETSI 600 W-ADSL/POTS	—	B881
—	B8042NL	ETSI Ann B-ADSL/ISDN 2B1Q	—	B815
—	B88046NL	UK Complex BT SIN-346-ADSL/POTS	relaxed spec*	B810
—	B8049NL	ETSI Complex option A-ADSL/POTS	compliant	B826
B8049E	B8049ENL	ETSI Complex option A-ADSL/POTS	compliant/low profile	B882
B8120	—	ANSI-ADSL/POTS	—	B827
B8120A	—	ANSI-ADSL/POTS	w/signature circuit	B827
B8216	B8216NL	UK Complex BT SIN-346-ADSL/POTS	w/protectations (K20 basic)	B883
B8245	B8245NL	ETSI Ann B - ADSL/POTS/ISDN 4B3T	compliant	B879
B8546	—	—	—	—
B8546E	B8546ENL	UK Complex BT SIN-346-ADSL/POTS	compliant/low profile	B707
BX8214	BX8214NL	ANSI-ADSL/POTS	low profile	B878
BX8214V	BX8214VNL	ANSI-ADSL/VDSL2/POTS	VDSL2 compliant/low profile	B886
—	BX8270NL	ITU G992.1-ADSL/POTS + VoIP	CPE for Korea/Asia	B872
—	BX8296NL	ANSI-ADSL/POTS + VoIP	CPE for North America	B871

SMART™ xDSL, Low Pass, Splitter/Filter Modules



Common pinout 44.70mm x 10mm (1.760" x 0.394")

Pulse provides high-quality DSL filters, splitters, and accessories for broadband Internet access over conventional telephone lines. Customers include DSL end-users, telephone companies, equipment providers, and Internet service providers worldwide. Various splitter and filter types, such as inline, wall-mount, dual-line, tri-jack, dynamic and even alarm panel filters, meet the demanding ETSI, ITU and ANSI specifications.

For years Pulse has been providing innovative DSL splitters, filter transformers, and inductors for customer premises (CPE) and central office (CO) applications worldwide. Now our CPE product line has expanded to offer video-grade splitters for error-free performance on TelcoTV networks.

- Error-free and jitter-free performance that maintains high-quality signals in the customer premises
- VDSL2 versions support TelcoTV and IPTV applications
- On-site system testing for xDSL environments, from DSLAM's to customer premises

Contact Pulse for custom Central/Master splitter solutions.



ADSL and ADSL2+ Micro Filters



Part Number:	CP-V413WT	Z-401TJ11	CP-V501TJ	CP-V503TJ	CP-404TJ45	CP-421SE
Filter Type:	Distributed DSL Filters					
wConnector	Screw	RJ11			RJ45	Swedish
Region	—	Europe				Sweden
Specification	ANSI T1.413	ETSI 952-1-1	ETSI 952-2-1	ETSI 952-2-3	ETSI 952-1-4	ANSI T1.421
Certification	FCC Part 68, UL 60950	CE				
Surge Protection	ITU K.21					

ADSL and ADSL2+ Micro Filters



Part Number:	Z-321NF	Z-301LS	Z-230PJ	Z-330P2J	Z-330TJA	Z-321P2J	Z-A431PJ31X-A	Z-A431EU
Filter Type:	Distributed DSL Filters							
Connector	RJ11					RJ31X	Screw	
Impedance	600 Ω							
Region	Asia & Europe		North America					UK
Specification	—	—	ANSI T1.421					—
Certification	CE		CE, FCC Part 68			UL 60950		CE

ADSL2+ and VDSL2 Video Grade Splitters



Part Number:	CP-V413WT	Z-401TJ11	CP-V501TJ	CP-V503TJ	CP-404TJ45	CP-421SE
Filter Type:	Distributed DSL Filters					
Connector	Screw	RJ11			RJ45	Swedish
Region	—	Europe				Sweden
Specification	ANSI T1.413	ETSI 952-1-1	ETSI 952-2-1	ETSI 952-2-3	ETSI 952-1-4	ANSI T1.421
Certification	FCC Part 68, UL 60950	CE				
Surge Protection	ITU K.21					

Excelsus MDU Products



Part Number:	KHZ-023-6625FF		Z-D250P2J	Z-D250CWA	CP-V413WT
Filter Type:	Central/Master Splitters				
Connector	Punch-down	RJ11			Screw
Impedence	600 Ω				
Mounting Style	66 Punch-down Block	Wall Mount			
Ports	24	1			
Certification	FCC Part 68, UL 60950				

Excelsus HPNA Products



Part Number:	BZ-H175S	BZ-H175S-44
Filter Type:	In-Line Balun with HPN Band Pass Filter	
Connector	Twisted Pair (RJ11) to Coaxial	
Impedance	100 Ω to 75 Ω balun	600 Ω
HPN Frequency	12 MHz - 28 MHz	12 MHz - 44 MHz
Certification	FCC Part 68, UL 60950	