BROADBAND ACCESS

HDSL/HDSL2, VDSL, HOME PHONELINE NETWORKING

Pulse
A TECHNITROL COMPANY

HDSL/HDSL2 PRODUCTS

HDSL Transformers

Part Number	Matched to	Application (2 pair)	Turns Ratio Chip LIne ±3%	Inductance Line Side	Data Sheet
Conexant Chipsets					
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
B1006	BT8921/BT8970	1168 Kbps	1CT:1:1	2.0	B901
B1007	BT8921/BT8970	784 Kbps	1CT:1:1	3.0	B901
B1020A	RS8973	full range	1:2CS [2]	2.0	B969
B1040A	RS8973	full range	1:2CS [2]	2.0	B969
Level One Chipsets					
PE-68614 [3]	SK70704/06/07/08	784 Kbps	1CT:1.8CT	2.75 [1]	B901
PE-68650 [3]	SK70704/06/07/08	1168 Kbps	1CT:1.8CTS	2.06 [1]	B901
B1013	SK70704/06/21/25	784 Kbps	1CT:1.8CTS	3.00	B924

1. (mH ±6%) 2. ±2%
*3. **Package size** is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H)*

HDSL2 Transformers

Part Number	Matched to	Application (2 pair)	Turns Ratio Chip LIne ±3%	Inductance Line Side (mH ±10%)	Data Sheet
Level One Chipsets					
B1019 [3]	SK70740/41/42	full range	1CT:2CTS	1.76	B921
B1042 [3]	SK70740/41/42	full range	1CT:2.3CTS	1.76	B921
B1056	LXT772/776	full range	1CT:3CS [2]	2.00	B965
GlobeSpan Chipsets					
B1053	G2237	full range	1CT:2.2CS [2]	3.00 [1]	B966

1. (mH ±5%) 2. ±2%
*3. **Package size** is 1.05"/26,67 cm (L), .950"/24,13 cm (W), .500"/12,70 cm (H)*

VDSL PRODUCTS

Hybrid Transformers

Part Number	Insertion Loss (dB MAX) 300 kHz - 30 MHz	Isolation Voltage (Vrms)	Turns Ratio TX	Turns Ratio RX	Data Sheet
Broadcom: BCM 6010 Chipset					
B4008	0.50	2000	2:1	1:1	B925
B4025	0.50	2000	2:1	1:1	B925

Line Transformers

B4023	0.50	3000	1:1CT	—	B975
B4006	0.50	3000	1:1	—	B975
B4004	1.00	1500	1CT:1CS	—	B975
Texas Instruments					
B4020	0.80	3000	1CT:1CT	—	B959
B4021	0.75	1500	1CT:1CT	—	B959

Filter Solutions

Part Number	Passband Frequency (Hz)	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Impedance (Ω) TX	Impedance (Ω) RX	Data Sheet
Infineon: PEB2281X Chipset						
ISDN Splitter LPF						
B4010	20 kHz–120 kHz	0.4	20	150	150	B931
Bandpass Filter Hybrid Transformers						
B4011 (135 Ω)	900 kHz–7.9 MHz	0.5	10	40	270	B931
B4014 (100 Ω)	900 kHz–7.9 MHz	0.5	10	40	270	B931
Filters, Transmit & Receive						
B4012	4.5 MHz–7.9 MHz	0.8	12	—	270	B931
B4013	900 MHz–3.3 MHz	0.8	12	—	270	B931
B4015 [1]	4.5 MHz–7.9 MHz	0.8	12	—	270	B931
B4016 [1]	900 MHz–3.0 MHz	1.2	12	—	270	B931
B4017	900 MHz–3.0 MHz	0.8	10	40	—	B931

1. High performance

HOME PHONELINE NETWORKING PRODUCTS

Filters

Part Number	Primary Application*	Secondary Application	Isolation Voltage	Data Sheet
All 1M8 Home Phoneline Networking Chipsets				
B6003	HPN	—	2000	B916
B6003L	HPN	—	2000	B960
AMD: 79C978 Phoneline/Ethernet LAN Controller				
B6005	HPN	10Base-T	2000	B918
B6006L	HPN	10Base-T	2000	B961
Broadcom: BCM4100/4210				
SF5770T [1]	HPN	—	1500	B967
B6013 [2]	HPN	—	1500	B967
INTEL: 21145 Phoneline/Ethernet LAN Controller				
B6001	HPN	10Base-T	2000	B915
Rockwell: RS7220 Phoneline/Ethernet LAN Controller				
SF5750T	HPN	10/100 Mb	2000	SF5750T

*1. **Tape & Reel** packaging available. To order, add a "-R" suffix to the part number.*
*2. **2 kV** 1000 pf capacitor included in package.*

Transformers

Part Number	Application*	Turns Ratio (± 5%)	Inductance (mH MIN)	Isolation Voltage (Vrms)	Data Sheet
ST5382	HPN	1:1	120	2000	ST5382
B6014	HPN	1:1	120	2000	B971

***HPN** = Home Phoneline Networking
THT - Through Hole Package **SMT** - Surface Mount Package

This datasheet has been downloaded from http://www.digchip.com at this page