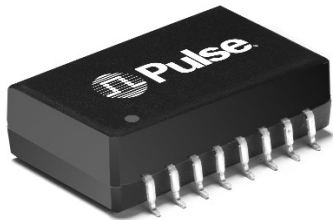


HOME PHONE NETWORKING BANDPASS AND 10BASE-T FILTER MODULE



- For use with AMD's AM 79C873 (NETPHY1) and AM 79C874 (NETPHY1-LP) Phoneline/Ethernet LAN Controller
- Supports HomePNA™ 1M8 Specifications
- Includes protection circuitry, isolation and EMI filtering
- Contains 10/100BASE-T transmit and receive isolation and EMI filtering

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

PARAMETER	TEST CONDITION	MIN.	NOM.	MAX.	UNITS
10/100Base-T Transmit/Receive Insertion Loss (1 to 125 MHz)	Input (2-1), Output (15-16) Input (5-4), Output (12-13) HP-8751A S21 100 Ω		0.5	1.1	dB
10/100Base-T Transmit/Receive Return Loss	Input (15-16) Input (12-13) HP-8751A S11 100 Ω				
5-30 MHz		18	20		dB
40 MHz		15.5	19		dB
50 MHz		13.6	15		dB
60-80 MHz		12	14		dB
Turns Ratio	10 KHZ .1 Vrms (2-1) TO (15-16) = (5-4) TO (12-13)		1.0		
Inductance	.2VRMS 100KHZ 8 Ma dc (2-1) = (5-4)	350	480		uH
10/100Base-T Common to Differential Mode Rejection 1.0 to 100 MHz	Input (2-1), Output (15-16) Input (5-4), Output (12-13) HP-8751A S21 100 OHMS	34	38		dB
10/100Base-T Crosstalk 0.1 to 100 MHz	Input (2-1), Output (12-13) HP-8751A S21 100 Ω	38	42		dB
HomePNA™ Insertion Loss 6.0 to 9.0 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	1.2	1.8	2.2	dB
HomePNA™ Attenuation 1 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	60	70		dB
27 MHz		55	60		dB
HomePNA™ Return Loss (6.0 to 90 MHz)	Input (9-10), 100 OHMS (7-8) HP-8751A S11 100 Ω	12	14		dB
Isolation	Pins (1-8) shorted to (9-16) shorted	2000*			Vrms

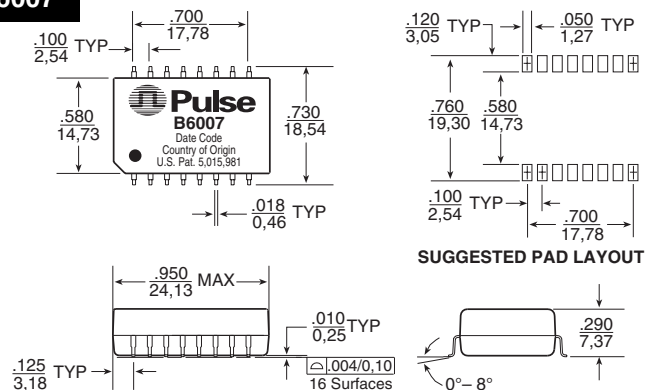
NOTE: Filters are shipped in tubes unless tape and reel is specified. Please add the suffix "T" (i.e. B6007T) for tape and reel orders.

*Designed to meet UL 1950 and FCC Part 68 requirements.

Mechanical

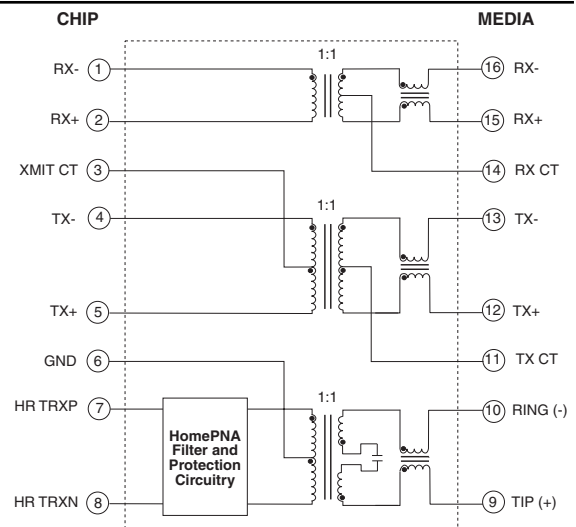
Schematic

B6007



Weight6.0 grams
Tape & Reel200/reel
Tube20/tube

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



For More Information :

UNITED STATES (Worldwide)

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
<http://www.pulseeng.com>
TEL: 858 674 8100
FAX: 858 674 8262

UNITED KINGDOM (Northern Europe)

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

FRANCE (Southern Europe)

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 287 8998
FAX: 65 280 0080

TAIWAN, R.O.C. (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

DISTRIBUTOR

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

Printed on recycled paper. ©2000, Pulse Engineering, Inc.

PRELIMINARY B922.P (7/00)