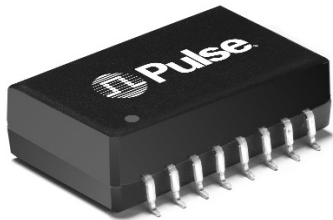


HOME PHONE NETWORKING BANDPASS AND 10BASE-T FILTER MODULE



- 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

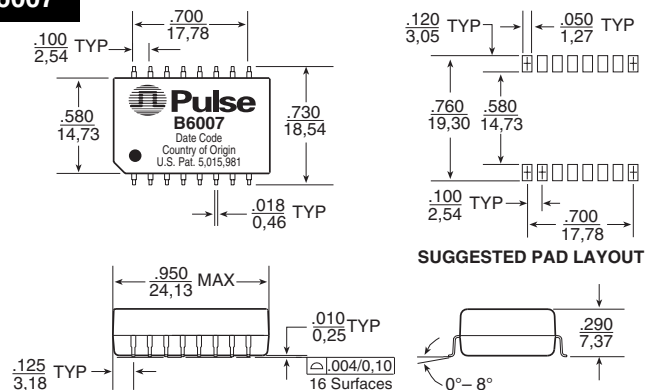
NOTE: Filters are shipped in tubes unless tape and reel is specified. Please add the suffix "T" (i.e. B6007T) for tape and reel orders.

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

Mechanical

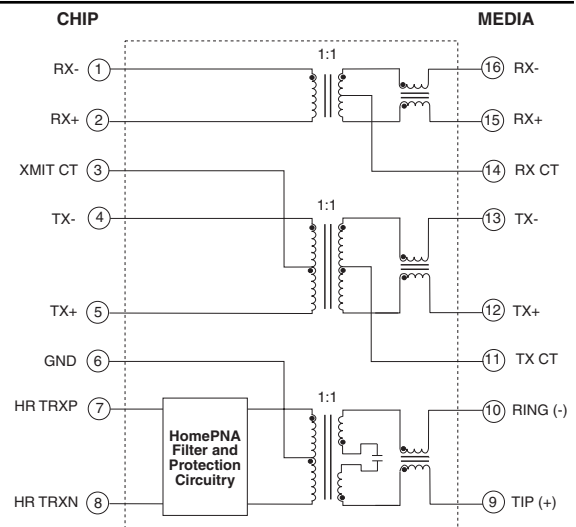
Schematic

B6007



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

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$



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PRELIMINARY B922.P (7/00)