

HOME PHONE NETWORKING BANDPASS AND 10BASE-T FILTER MODULE



- ⦿ For use with AMD's 79C978 Phonerline/Ethernet LAN Controller
- ⦿ Supports HomePNA™ 1M8 Specifications
- ⦿ Includes protection circuitry, isolation and EMI filtering
- ⦿ Contains 10BASE-T transmit/receive isolation and EMI filtering
- ⦿ HPN Channel is designed to meet UL 1950 requirements for supplementary insulation at a 250 V working voltage

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

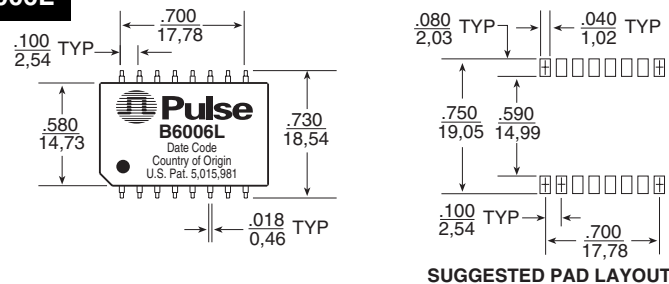
PARAMETER	TEST CONDITION	MIN.	NOM.	MAX.	UNITS
HPN 1M8 Insertion Loss 6.0 MHz to 9.0 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	1.2	1.7	2.2	dB
HPN 1M8 Attenuation 1.0 MHz 27 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	60 54			dB dB
HPN 1M8 Return Loss (6.0 MHz to 9.0 MHz)	Input (14-13), 100 Ω (1-2) HP-8751A S11 100 Ω	12	14		dB
10BASE-T Turns Ratio	Transmit (4-5):(13-12) Receive (1-2):(16-15)	1.38 0.98	1.41 1.0	1.44 1.02	
10BASE-T Inductance	Transmit (4-5) 10 KHz, 0.02 Vrms Receive (1-2) 10 KHz, 0.02 Vrms	140 140	180 180		μH μH
10BASE-T Leakage Inductance	(1-2) with (16-15) shorted (4-5) with (13-12) shorted		0.7 0.3	1.2 0.7	μH μH
10BASE-T Interwinding Capacitance	(1-2) short to (16-15) shorted (4-5) short to (13-12) shorted		10 10	12 12	pF pF
10BASE-T DC Resistance	(1-2) = (4-5) (3-5) (16-15) = (13-12)		0.20 0.15 0.60	0.30 0.20 0.80	Ω Ω Ω
10BASE-T Return Loss	(13-12) to (4-5) 50 Ω (16-15) to (1-2) 100 Ω	18 18	23 23		dB 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. B6006LT) for tape and reel orders.

Mechanical

Schematic

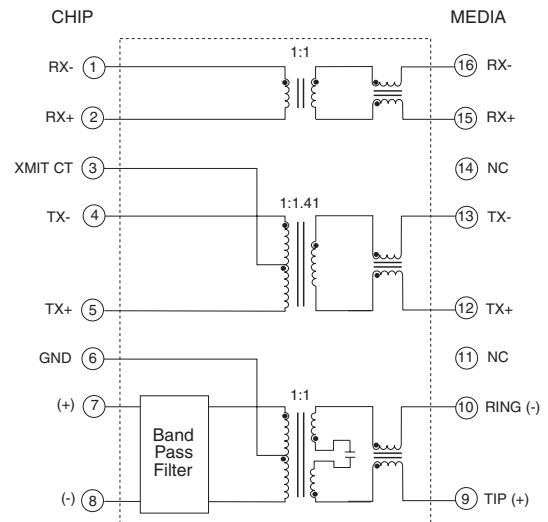
B6006L



SUGGESTED PAD LAYOUT

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

Dimensions: Inches
 mm
 Unless otherwise specified, all tolerances are ± .010
 0,25



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PRELIMINARY B961.P (5/00)