

HOME PHONE NETWORKING BANDPASS AND 10BASE-T FILTER MODULE



- For use with AMD's 79C978 Phoneline/Ethernet LAN Controller
- Supports HomePNA™ 1M8 Technology
- Includes protection circuitry, isolation and EMI filtering
- Contains 10BASE-T transmit/receive isolation and EMI filtering

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

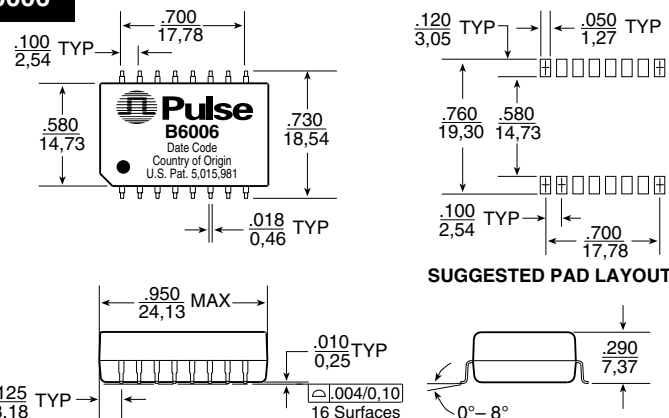
PARAMETER	TEST CONDITION	MIN.	NOM.	MAX.	UNITS
HPN 1M8 Insertion Loss 6.0 MHz to 9.0 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	1.2	1.7	2.2	dB
HPN 1M8 Attenuation 1.0 MHz 27 MHz	Input (7-8), Output (9-10) HP-8751A S21 100 Ω	70 55	80 60	— —	dB dB
HPN 1M8 Return Loss (6.0 MHz to 9.0 MHz)	Input (14-13), 100 Ω (1-2) HP-8751A S11 100 Ω	12	15	—	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	— —	0.4 0.7	0.7 1.0	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) = (3-5) (4-5) (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. B6006T) for tape and reel orders.

Mechanical

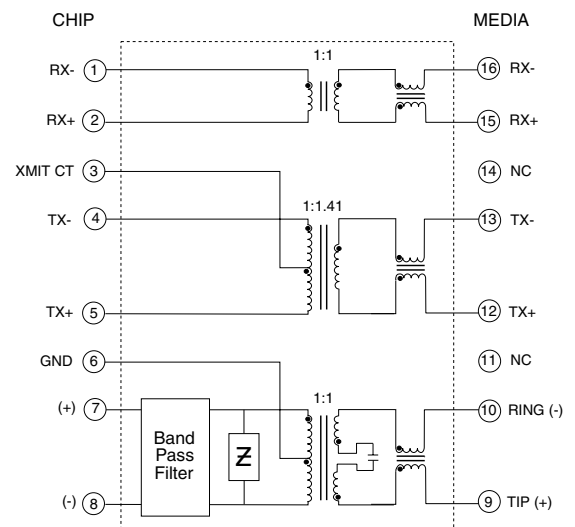
Schematic

B6006



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 B919.P (4/00)