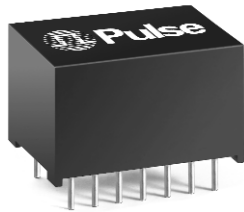


# HOME PHONE NETWORKING BANDPASS AND 10BASE-T FILTER MODULE



- For use with Intel's 21145 Phonetline/Ethernet LAN Controller
- Supports HomePNA™ 1M8 Technology
- Includes protection circuitry, isolation and EMI filtering
- Contains 10BASE-T transmit and receive filters with isolation and EMI filtering

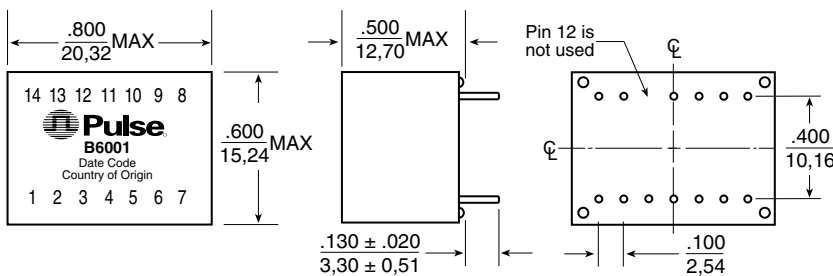
## Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| PARAMETER                                                   | TEST CONDITION                       | MIN. | NOM. | MAX. | UNITS |
|-------------------------------------------------------------|--------------------------------------|------|------|------|-------|
| <b>HPN 1M8 Insertion Loss</b>                               |                                      |      |      |      |       |
| 6.0 MHz                                                     | Input (1-2), Output (14-13)          |      | 3.2  | 4    | dB    |
| 7.5 MHz                                                     | HP-8751A S21 100 Ω                   |      | 2.8  | 3.5  | dB    |
| 9.0 MHz                                                     |                                      |      | 3.4  | 4    | dB    |
| <b>HPN 1M8 Attenuation</b>                                  |                                      |      |      |      |       |
| 1.0 MHz                                                     | Input (1-2), Output (14-13)          | 50   | 60   |      | dB    |
| 27 MHz                                                      | HP-8751A S21 100 Ω                   | 60   | 70   |      | dB    |
| <b>HPN 1M8 Return Loss</b><br>(6.0 MHz to 9.0 MHz)          | Input (14-13), 100 Ω (1-2)           | 10   | 12   |      | dB    |
|                                                             | HP-8751A S11 100 Ω                   |      |      |      |       |
| <b>10BASE-T Transmit</b><br>Insertion Loss(5 MHz to 10 MHz) | Input (6-7), Output (11-10)          | 0.8  | 1.3  | 1.8  | dB    |
|                                                             | HP-8751A S21 100 Ω                   |      |      |      |       |
| <b>10BASE-T Transmit</b><br>Attenuation: 30 MHz             | Input (6-7), Output (11-10)          | 30   | 40   |      | dB    |
| 50 MHz                                                      | HP-8751A S21 100 Ω                   | 30   | 40   |      | dB    |
| <b>10BASE-T Transmit</b><br>Return Loss(5 MHz to 10 MHz)    | Input (11-10), 50 Ω (6-7)            | 18   | 23   |      | dB    |
|                                                             | HP-8751A S11 100 Ω                   |      |      |      |       |
| <b>10BASE-T Receive</b><br>Insertion Loss(5 MHz to 10 MHz)  | Input (5-4), Output (9-8)            |      | 0.7  | 1.0  | dB    |
|                                                             | HP-8751A S21 100 Ω                   |      |      |      |       |
| <b>10BASE-T Receive</b><br>Return Loss(5 MHz to 10 MHz)     | Input (9-8), 100 Ω (5-4)             | 18   | 23   |      | dB    |
|                                                             | HP-8751A S11 100 Ω                   |      |      |      |       |
| <b>Isolation</b>                                            | Pins (1-7) shorted to (8-14) shorted | 2000 |      |      | Vrms  |

## Mechanical

## Schematic

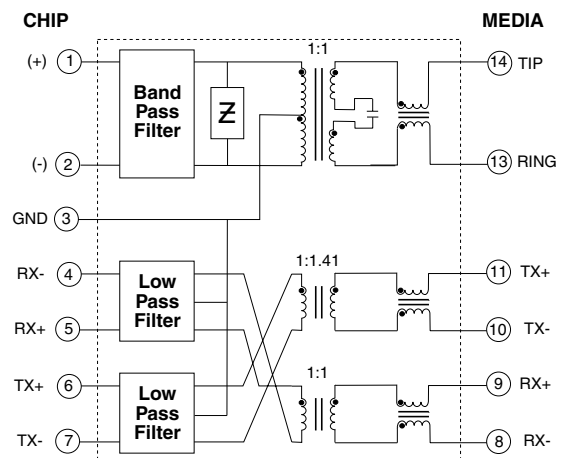
### B6001



Weight ..... 3.5 grams

Tube ..... .20/tube

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{.025}$



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**PRELIMINARY B915.P (4/00)**