Features

- Compliant with IEEE802.3ab Draft Standards for 1000 Base-T
- Designed for Long Haul Gigabit Ethernet 10/100/1000 Base-T Full Duplex applications
- Low profile surface mount packaging designed for reflow process (225 ° peak)
- Supports 4 pairs of Category 5 UTP cables

Electrical Specifications @ 25 °C

- Inductance ......................... 350 µH min. with 8 mA DC bias @ 100 KHz, 0.2 V
- Leakage Inductance .......... 0.50 µH max. @ 100 KHz, 0.2 V
- Interwinding Capacitance ...... 25 pF typ. @ 100 KHz, 0.2 V
- DC Resistance .................. 0.90 Ω max.
- Insertion Loss ................. 0.3-100 MHz -1.1 dB max.

Return Loss (dB min.)

- 0.3-30 MHz ..................... -18 dB
- 40 MHz ....................... -14.4 dB
- 50 MHz ....................... -13.1 dB
- 60-80 MHz ..................... -12 dB

Cross Talk (dB min.)

- 0.3-30 MHz ..................... -35 dB
- 60-100 MHz ................... -28 dB

Common Mode Rejection (dB min.)

- 0.3-30 MHz ..................... -40 dB
- 40 MHz ....................... -35 dB
- 80-100 MHz ................... -30 dB

Turns Ratio ...................... 1 CT:1±5 %

Isolation Hi-Pot ............. 1500 VAC 1 mA 1 sec.

Operating Temperature

- 0° C to +70 °C

Packaging Specifications

- Tape & Reel ..................... 500 pcs./reel

How To Order

- PT61022E L
  Model
  Termination
  L = Tin only (RoHS Compliant)

Recommended Layout

REV. 03/15

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.