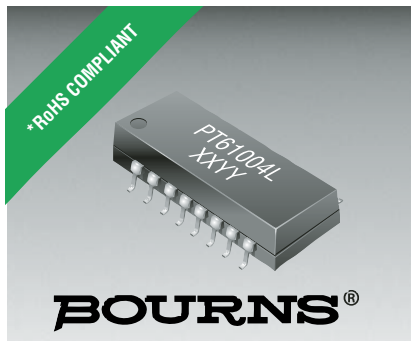




## Features

- IEEE 802.3 Ethernet compatible
- Designed for various IC manufacturers
- Fully integrated for adapter, hub and motherboard applications
- RoHS compliant\*

## Applications

- LAN (Local Area Network)
- Ethernet

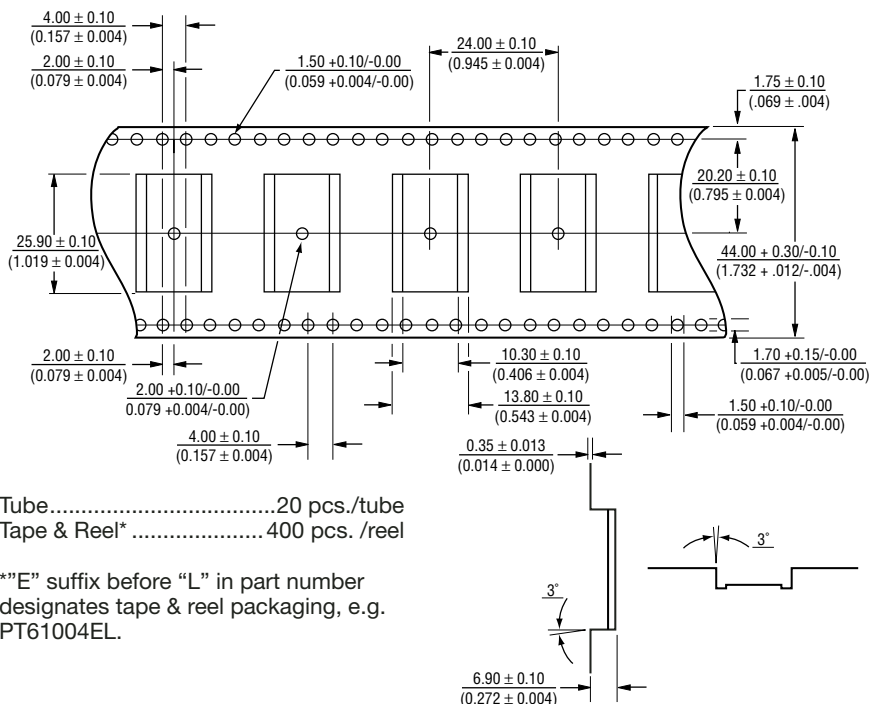
# PT61004L LAN 10Base-T Filter Interface

## Electrical Specifications @ 25 °C

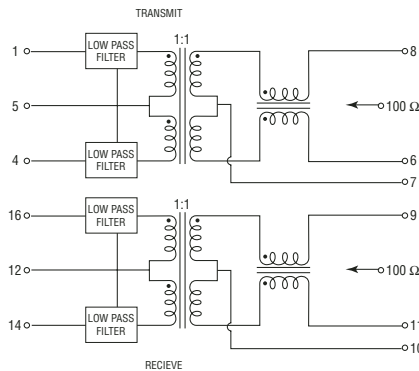
|                                   |                |
|-----------------------------------|----------------|
| Turns Ratio                       |                |
| TX $\pm 5\%$                      | 1:1            |
| RX $\pm 5\%$                      | 1:1            |
| Insertion Loss (dB max.)          |                |
| 1 to 10 MHz                       | -1.0           |
| Cross Talk (dB min.)              |                |
| 5 to 10 MHz                       | -35            |
| Hipot min. (Vrms)                 | 1500           |
| Attenuation (dB min.)             |                |
| 30 MHz                            | -30            |
| 40 MHz                            | -35            |
| 100 MHz                           | -35            |
| Return Loss (dB min.)             |                |
| 5-10 MHz, 100 $\Omega$            | -18            |
| 5-10 MHz, 98 $\pm 13 \Omega$      | -15            |
| Com Mode Rejection XMIT (dB min.) |                |
| 5 MHz                             | -60            |
| 10 MHz                            | -60            |
| 50 MHz                            | -55            |
| 100 MHz                           | -50            |
| 200 MHz                           | -45            |
| Operating Temperature             | 0 °C to +70 °C |

Other OCL specifications available on request.

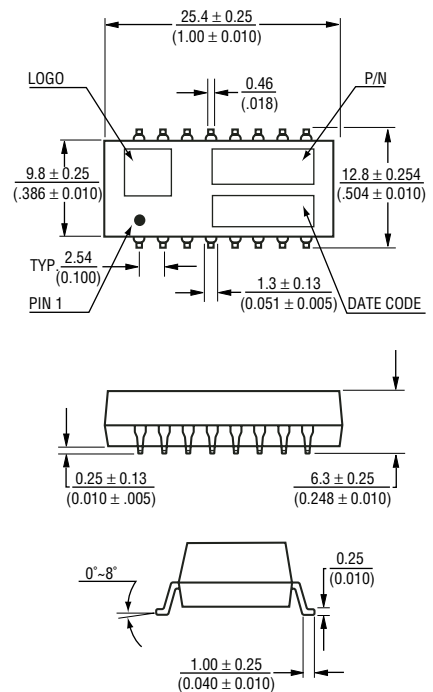
## Packaging Specifications



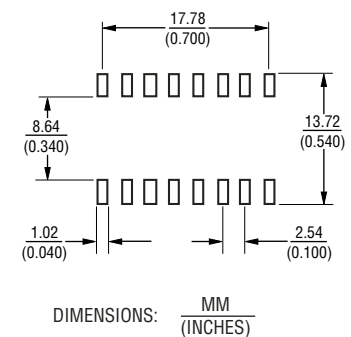
## Electrical Schematic



## Product Dimensions



## Recommended Layout



## How To Order

Model **PT61004** **L**

Packaging \_\_\_\_\_  
Blank = Packaged in tubes  
E = Tape and reel

Termination \_\_\_\_\_  
L = Tin only (lead free)

REV. 09/08

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications