

# 10BASE-T NETWORK COMPONENTS

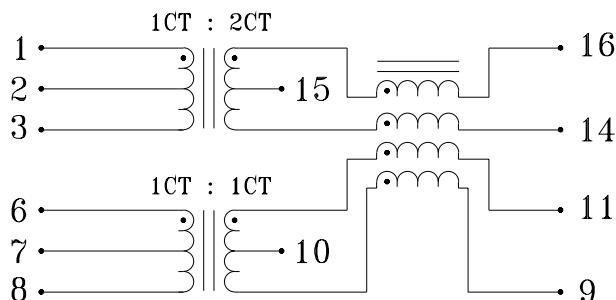
960061B

- Designed for use with National Semiconductor DP83907 Atlantic II 10Base-T PHY transceiver
- Available in both surface mount and through-hole packaging
- Conforms to IEEE 802.3 10Base-T specifications
- 2000 Vrms isolation

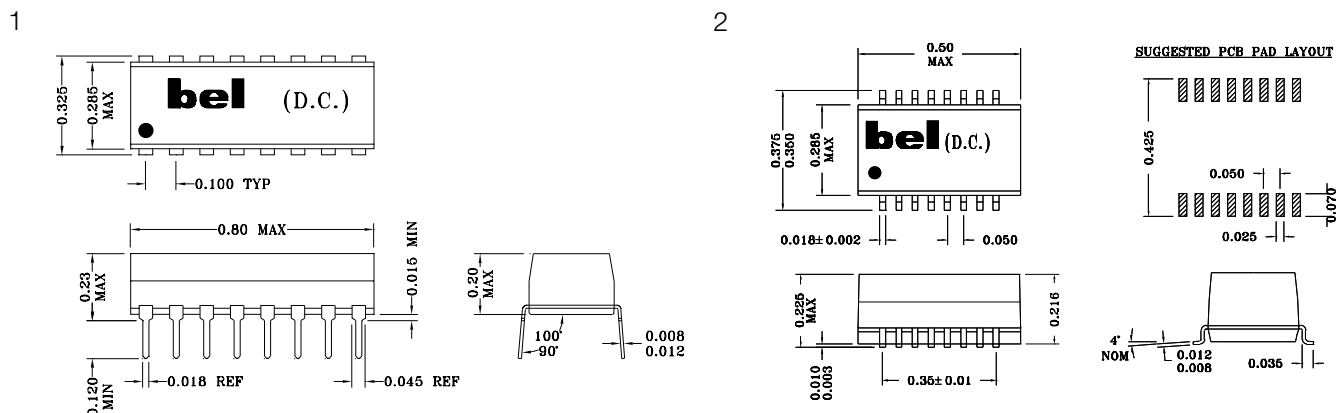
## ELECTRICALS AT 25°C

Part No.	Insertion Loss (dB) Max 1-10MHz	OCL ( $\mu$ H) Min TX/RX	Return Loss (dB) Min 5MHz-10MHz	Crosstalk (dB) Min 1MHz-10MHz	CM-CM Rej (dB) Min 10-30MHz 100MHz	Package Style
A553-5999-47	-1.0	50/200	-18	-40	-40 -30	1
S553-5999-87	-1.0	50/200	-18	-40	-40 -30	2

## SCHEMATIC



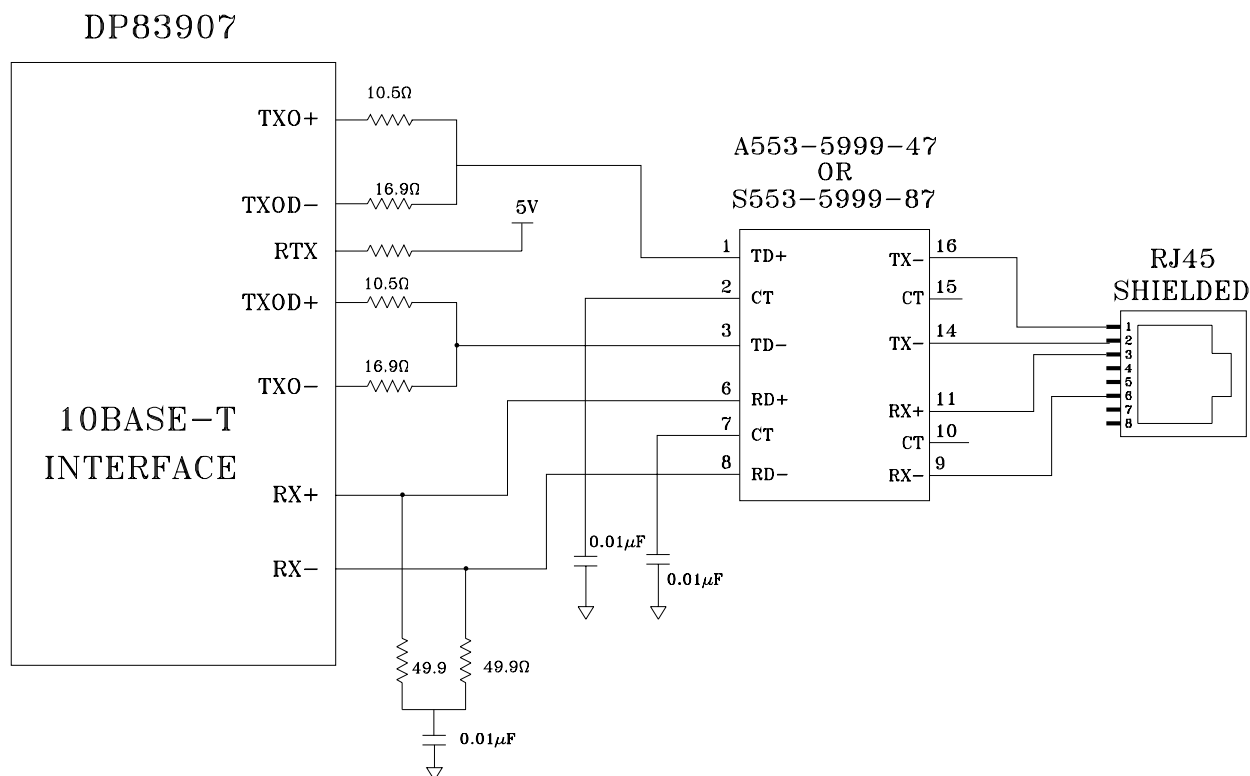
## MECHANICALS



Specifications subject to change without notice.

## 10BASE-T NETWORK COMPONENTS

## APPLICATION CIRCUIT



## APPLICATION NOTES

- All of these part types have been designed to provide signal performance optimization, maximum noise reduction and minimum crosstalk interference. Careful board layout and grounding techniques are also critical to control jitter and signal reflections.
- Bel's low profile, surface mount packaging is ideal for high speed pick and place machinery. Parts can be shipped on tape and reel for high speed placement. Construction processes have been implemented for thermal compatibility with high temperature IR reflow assembly processing. Post dipping of leads assist with PC board solderability. Each part is optically inspected to meet rigid coplanarity requirements.

**Corporate Office**

**Bel Fuse Inc.**

198 Van Vorst Street, Jersey City, NJ 07302-4496  
Tel: 201-432-0463  
Fax: 201-432-9542  
E-Mail: [BelFuse@belfuse.com](mailto:BelFuse@belfuse.com)  
Internet: <http://www.belfuse.com>

***Far East Office***

**Bel Fuse Ltd.**

8F/8 Luk Hop Street  
San Po Kong  
Kowloon, Hong Kong  
Tel: 852-2328-5515  
Fax: 852-2352-3706

**European Office**

**Bel Fuse Europe Ltd.**

Preston Technology Management Centre  
Marsh Lane, Preston PR1 8UD  
Lancashire, U.K.  
Tel: 44-1772-556601  
Fax: 44-1772-888366