

# GIGABIT ETHERNET MAGNETICS

## Low Profile Mini PCI Transformer Modules

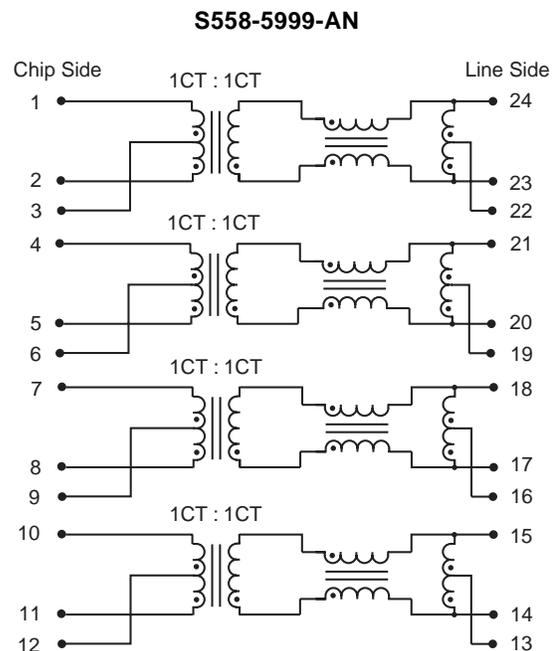
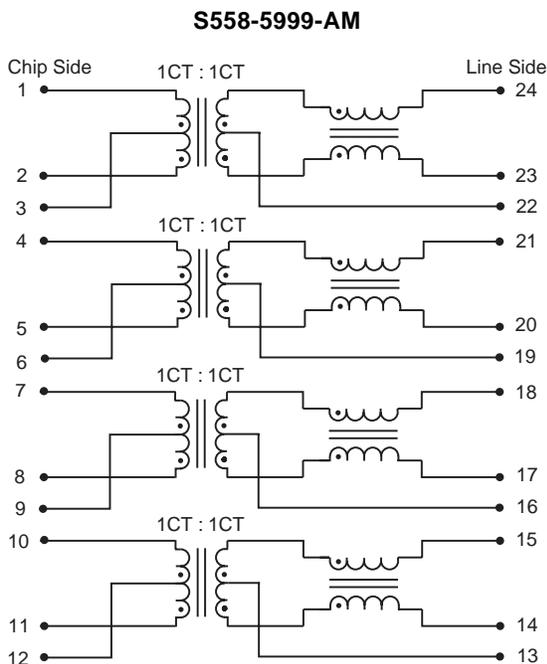
LM02302

- Designed for use with 10/100/1000Base-T transceiver ICs
- PCI and mini PCI card compatible
- Maximized for full duplex applications
- Maximum height of 0.084"
- Supports four pairs of category 5 UTP cable
- Compliant with IEEE 802.3ab
- 350µH OCL with 8mA bias applied from 0° C to 70° C
- IR reflow rating at 225° C peak

### ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Insertion Loss dB max	Return Loss dB min		Common to Common Mode Rejection dB min	Crosstalk dB min	Hipot Vrms min
		0.1MHz to 100MHz	0.5MHz to 40MHz			
S558-5999-AM	-1.0	-18	12 - 20 log (f/80 MHz)	-30	33 - 20 log (f/50MHz)	1500
S558-5999-AN	-1.0	-18	12 - 20 log (f/80 MHz)	-30	33 - 20 log (f/50MHz)	1500
S558-5999-AZ	-1.0	-18	12 - 20 log (f/80 MHz)	-30	33 - 20 log (f/50MHz)	1500
S558-5999-BA	-1.0	-18	12 - 20 log (f/80 MHz)	-30	33 - 20 log (f/50MHz)	1500

### SCHEMATICS

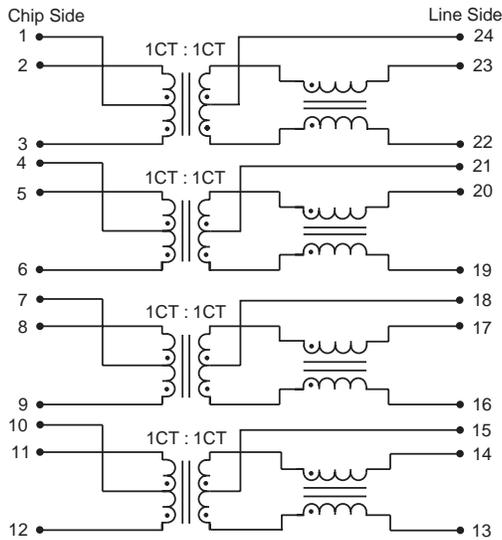


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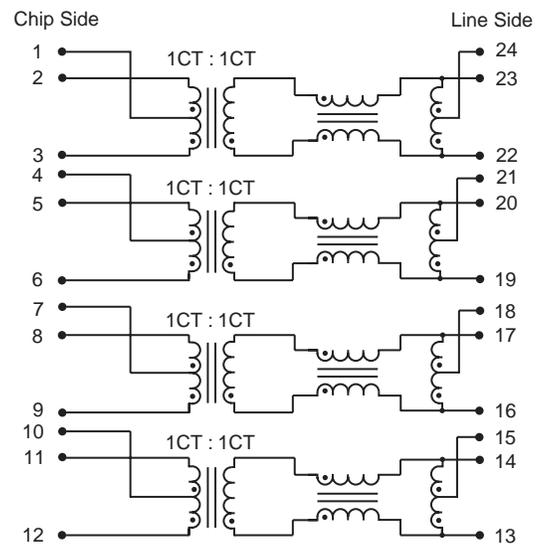
LM02302

#### SCHEMATIC

S558-5999-AZ

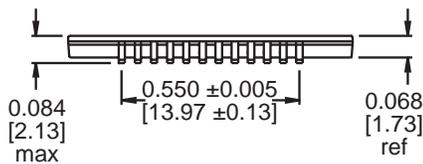
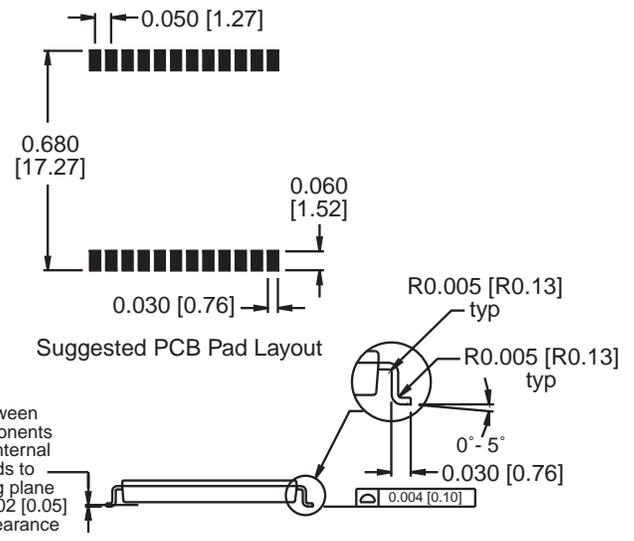
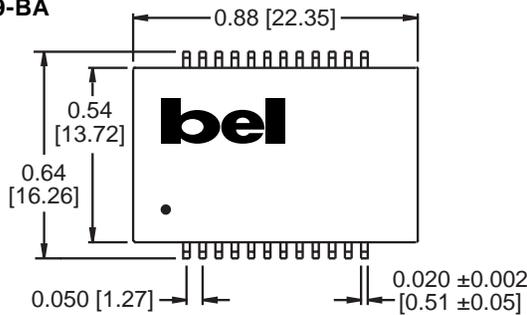


S558-5999-BA



#### MECHANICAL

- S558-5999-AM
- S558-5999-AN
- S558-5999-AZ
- S558-5999-BA



Dimensions are in inches [millimeters].

Standard dimension tolerance is  $\pm 0.005$  [0.13] unless otherwise noted.

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#### CORPORATE

**Bel Fuse Inc.**  
206 Van Vorst Street  
Jersey City, NJ 07302  
Tel 201-432-0463  
Fax 201-432-9542  
www.belfuse.com

#### FAR EAST

**Bel Fuse Ltd.**  
8F / 8 Luk Hop Street  
San Po Kong  
Kowloon, Hong Kong  
Tel 852-2328-5515  
Fax 852-2352-3706  
www.belfuse.com

#### EUROPE

**Bel Fuse Europe Ltd.**  
Preston Technology Management Centre  
Marsh Lane, Suite G7, Preston  
Lancashire, PR1 8UD, U.K.  
Tel 44-1772-556601  
Fax 44-1772-888366  
www.belfuse.com