

# ADSL Magnetics



TM02306

- Designed to comply with the requirements of UL1950 and EN60950 to provide an insulation barrier with a working voltage of 150V
- Minimum interwinding breakdown voltage of 1875 Vrms
- Operating and storage temperature range: -40° to +85° C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: standard printed wiring board assembly techniques, total-immersion cleaning
- Reliability testing: shock, vibration, temperature cycling, temperature - humidity - bias

## ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±2%	Inductance <sup>1</sup> µH ±6.7%	Leakage Inductance <sup>2</sup> µH max	DCR Ω max		Longitudinal Balance <sup>3</sup> dB max	Harmonic Distortion <sup>3</sup> dB max	Direct Capacitance pF max
	Chip : Line	Line Side	Line Side	Chip Side	Line Side	20 kHz - 500 kHz	12 Vpp 150 kHz	Chip : Line
S560-6600-HB	1 : 0.95	750	5	1.4	1.6	45	-85	100

All measurements are made with pins 2 and 3 connected and pins 5 and 7 connected

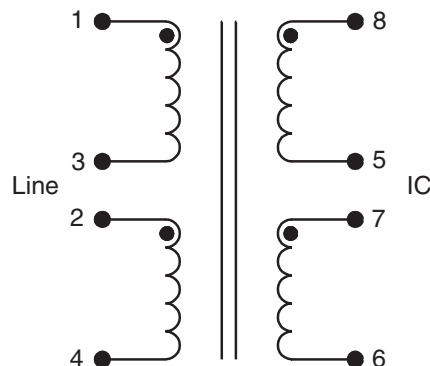
1. Inductance measured at 10 kHz, 0.1 Vac

2. Measured at 100 kHz, 0.1 Vac

3. Measured with line impedance of 100 Ω and chip impedance of 110.8 Ω

## SCHEMATIC

### S560-6600-HB

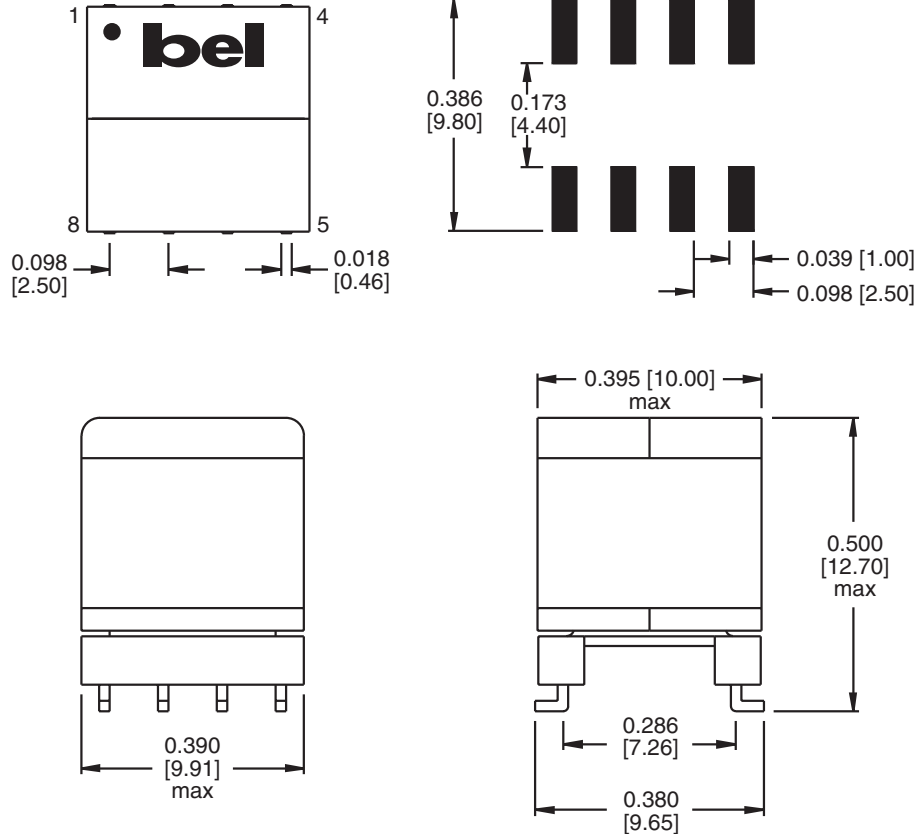


TM02306

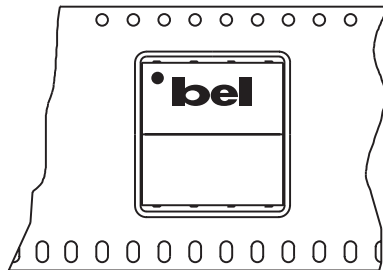
### MECHANICAL

S560-6600-HB

#### Suggested PCB Pad Layout



Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.005$  [0.13] unless otherwise noted.



Orientation of Component Inside Pocket

#### Tape and Reel Packaging

24 mm wide by 20 mm pitch; 13 inch OD, 4 inch ID  
200 components per reel, maximum  
Meets ANSI/EIA 481-2 Carrier Tape Standards

©2002 Bel Fuse Inc. Specifications subject to change without notice. 08.02

#### 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