

# VOICE OVER IP MAGNETICS

## Broadband Transformers

S558-5500-13

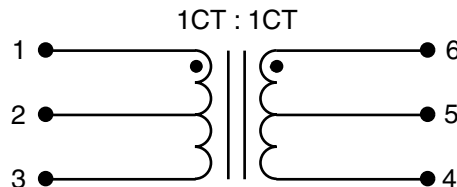
- Support 10 Mbps and 100 Mbps VoIP applications
- Compliant with IEEE 802.3 standards
- Designed to meet 350mA balanced DC line current
- Operating temperature 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

### ELECTRICAL SPECIFICATIONS AT 25° C

Turns Ratio ±3%		Insertion Loss dB min	Return Loss		Primary Inductance μH min	Leakage Inductance μH max	Interwinding Capacitance pF max	DCR Ω max			
TXIN : TXO	RXIN : RXO		100kHz to 100MHz	2MHz to 30MHz				60MHz to 80MHz	TXIN	TXO	RXIN
1CT : 1CT	1CT : 1CT	-0.5	-16	-10	400	0.4	20	0.5	0.5	0.5	0.5

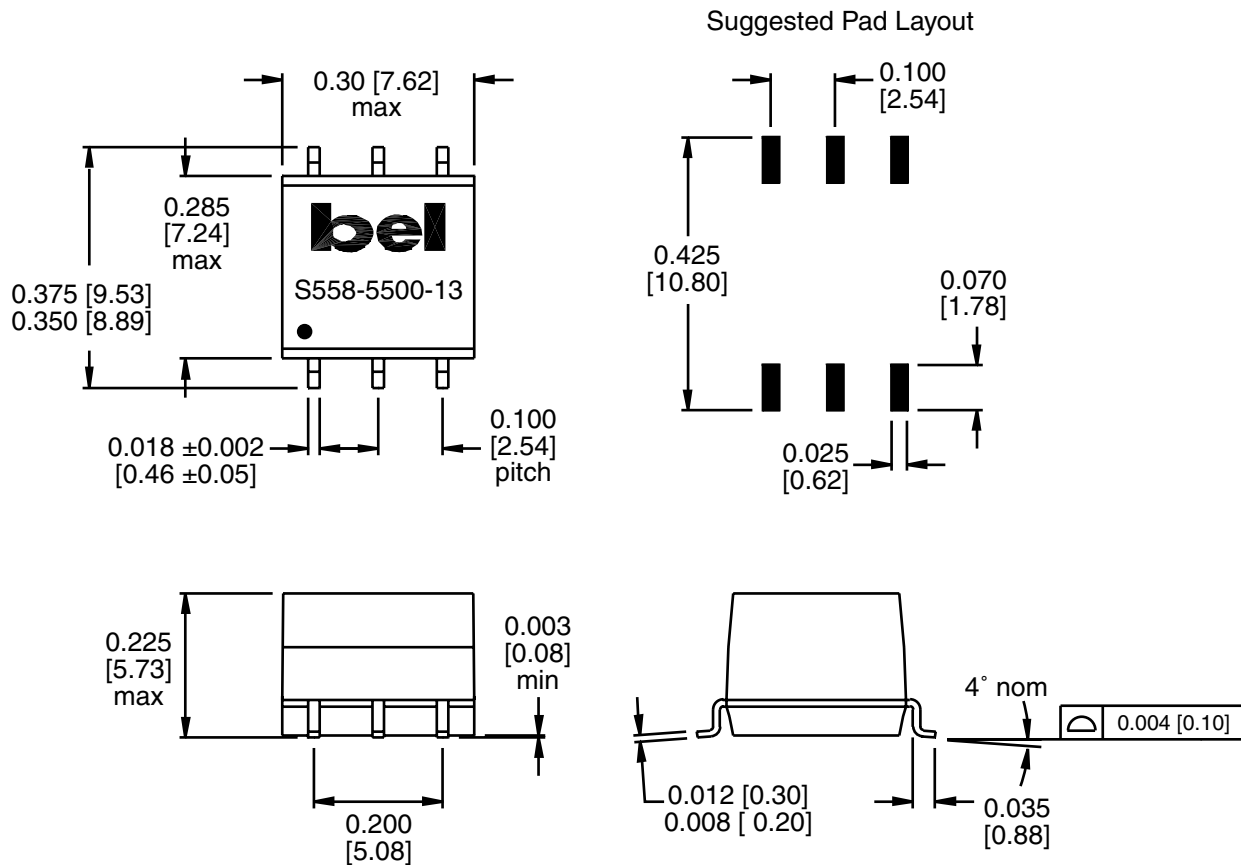
### SCHEMATIC

S558-5500-13



### MECHANICAL

S558-5500-13



©2005 Bel Fuse Inc. Specifications subject to change without notice. 06.05

#### 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