

# GIGABIT ETHERNET MAGNETICS



LM00300

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

## ELECTRICAL SPECIFICATIONS AT 25° C

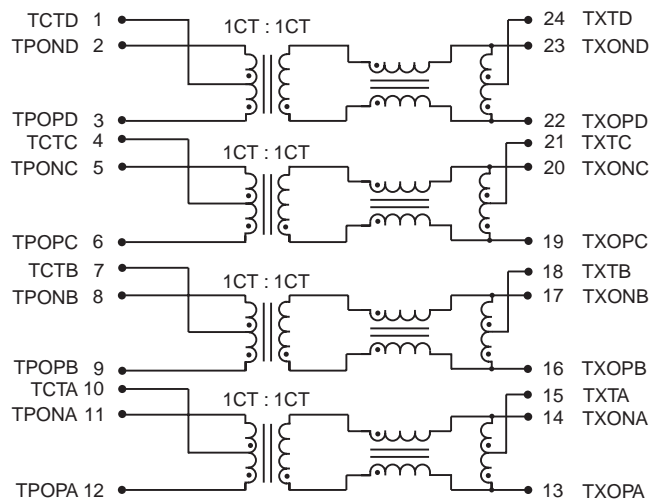
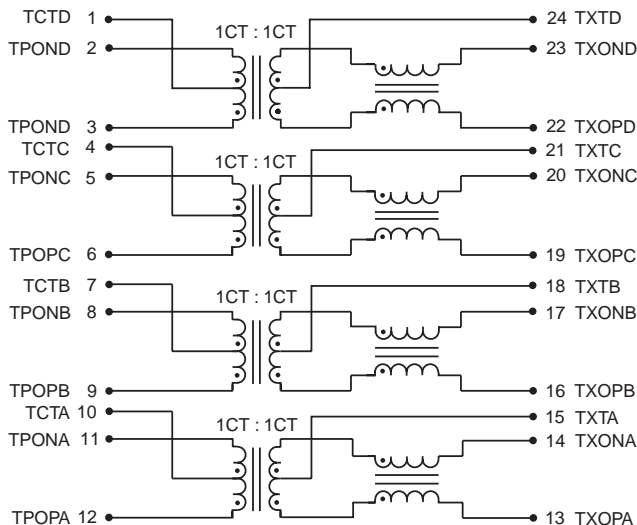
Part Number	Insertion Loss dB max	Return Loss dB min		Common to Common Mode Rejection dB min	Crosstalk dB min	Hipot Vrms min
	0.1MHz to 100MHz	0.5MHz to 40MHz	40MHz to 100MHz	100KHz to 100MHz		
S558-5999-M8	1.0	18	12 - 20 log (f/80 MHz)	30	33 - 20 log (f/50MHz)	1500
S558-5999-M9	1.0	18	12 - 20 log (f/80 MHz)	30	33 - 20 log (f/50MHz)	1500
S558-5999-P3	1.0	18	12 - 20 log (f/80 MHz)	30	33 - 20 log (f/50MHz)	1500
S558-5999-T3	1.0	18	12 - 20 log (f/80 MHz)	30	33 - 20 log (f/100MHz)	1500
S558-5999-T4	1.0	18	12 - 20 log (f/80 MHz)	30	33 - 20 log (f/100MHz)	1500

To select part number based on transceiver IC compatibility, please contact Bel.

## SCHEMATICS

**S558-5999-M8**  
**S558-5999-M9**  
**S558-5999-T4**

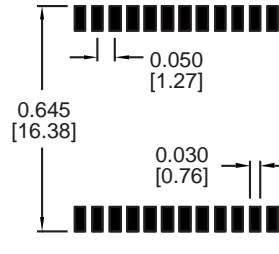
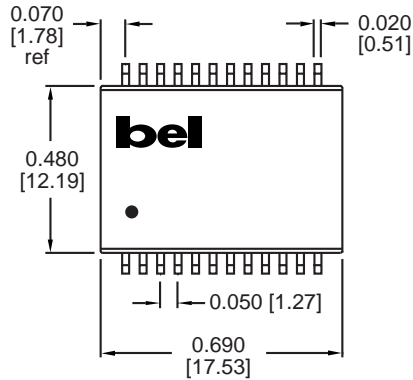
**S558-5999-P3**  
**S558-5999-T3**



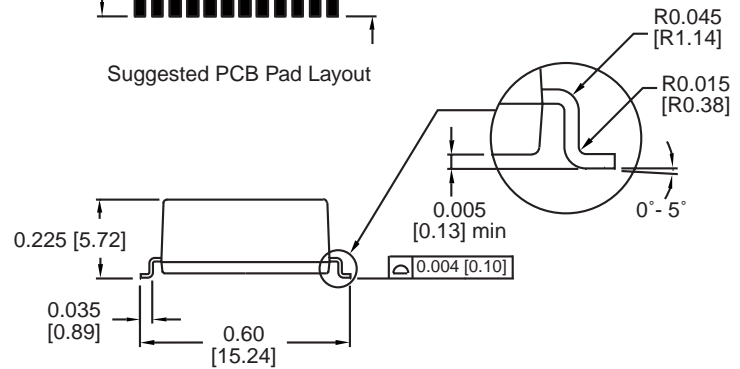
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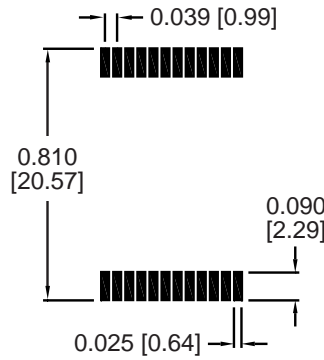
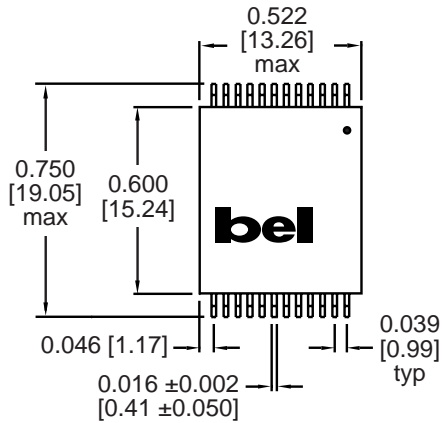
### MECHANICALS



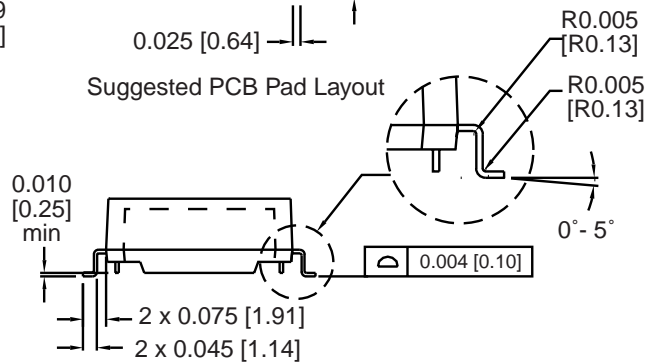
**S558-5999-M8**  
**S558-5999-M9**  
**S558-5999-P3**



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



**S558-5999-T3**  
**S558-5999-T4**



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