

GIGABIT ETHERNET MAGNETICS

Single Port Transformer Modules

bel

LM00300

- Designed for use with 10/100/1000Base-T transceiver ICs
- Maximized for full duplex applications
- IR reflow rating at 225° C peak
- 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

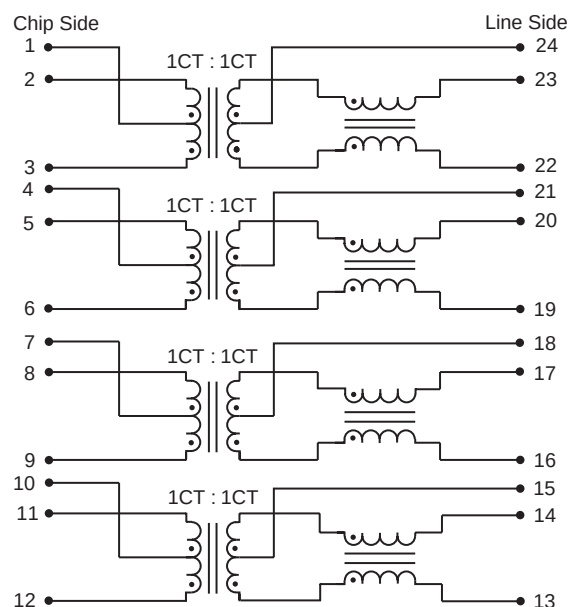
ELECTRICAL SPECIFICATIONS AT 25° C

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

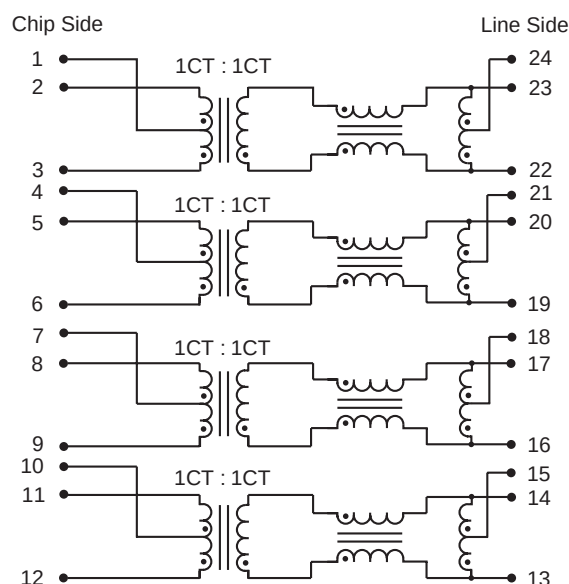
To select part number based on transceiver IC compatability, please contact Bel.

SCHEMATICS

S558-5999-M8 S558-5999-M9



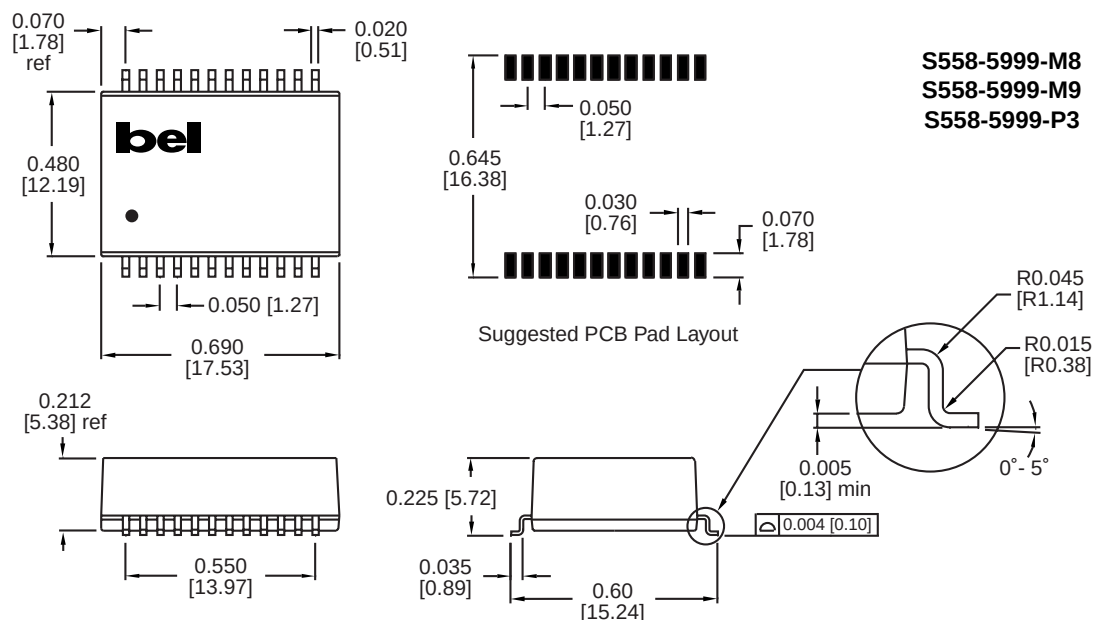
S558-5999-P3 S558-5999-T3



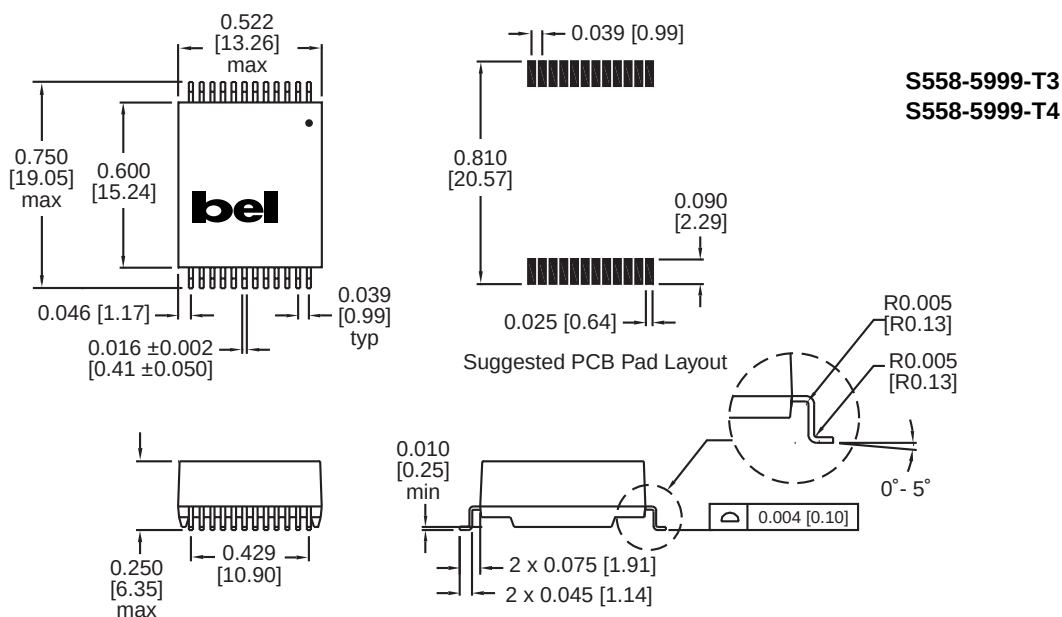
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MECHANICALS



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



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