

10/100BASE-T LAN MAGNETICS

Transformer Modules for Auto MDIX

LM00413

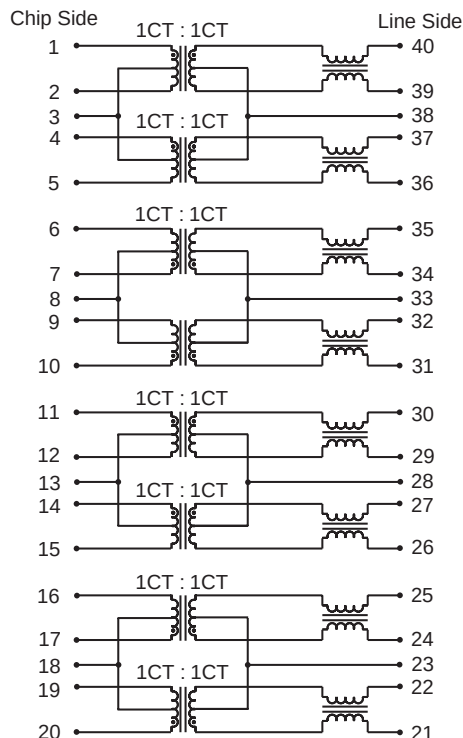
- Designed for use in symmetrical Auto MDIX TX and RX channels
- Quad, four-port S558-5999-Q9 design optimizes board layout for single row and dual stack RJ-45 connectors
- Tested for use with multiple 10/100 Mbps and 100 Mbps PHY transceivers requiring 1CT : 1CT TX and RX transformers
- Meets all IEEE 802.3 standards including 350μH with 8mA DC bias
- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Operating temperature 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

ELECTRICAL SPECIFICATIONS AT 25° C

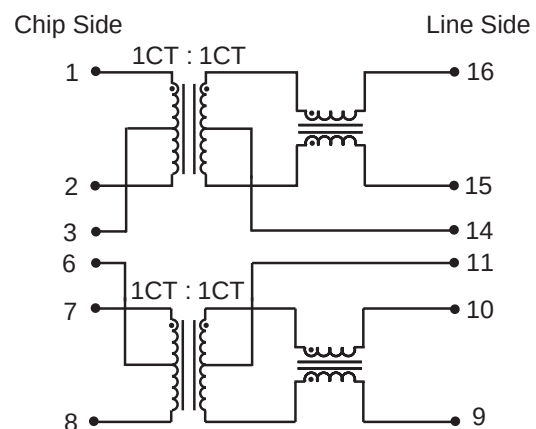
Part Number	Insertion Loss dB max	Return Loss dB min				Common to Differential Mode Rejection dB min	Common to Common Mode Rejection dB min	Crosstalk dB min			
	100kHz to 100MHz	100kHz to 30MHz	30MHz to 60MHz	60MHz to 80MHz	100kHz to 100MHz	100kHz to 100MHz	100kHz to 100MHz	1MHz	30MHz	60MHz	100MHz
S558-5999-Q9	-1.0	-18	18 - 20log (f/30MHz)	-12	-40	-30	-65	-55	-45	-35	-35
S558-5999-W2	-1.0	-18	18 - 20log (f/30MHz)	-12	-40	-30	-65	-55	-45	-35	-35

SCHEMATICS

S558-5999-Q9



S558-5999-W2 (Single Port Design)



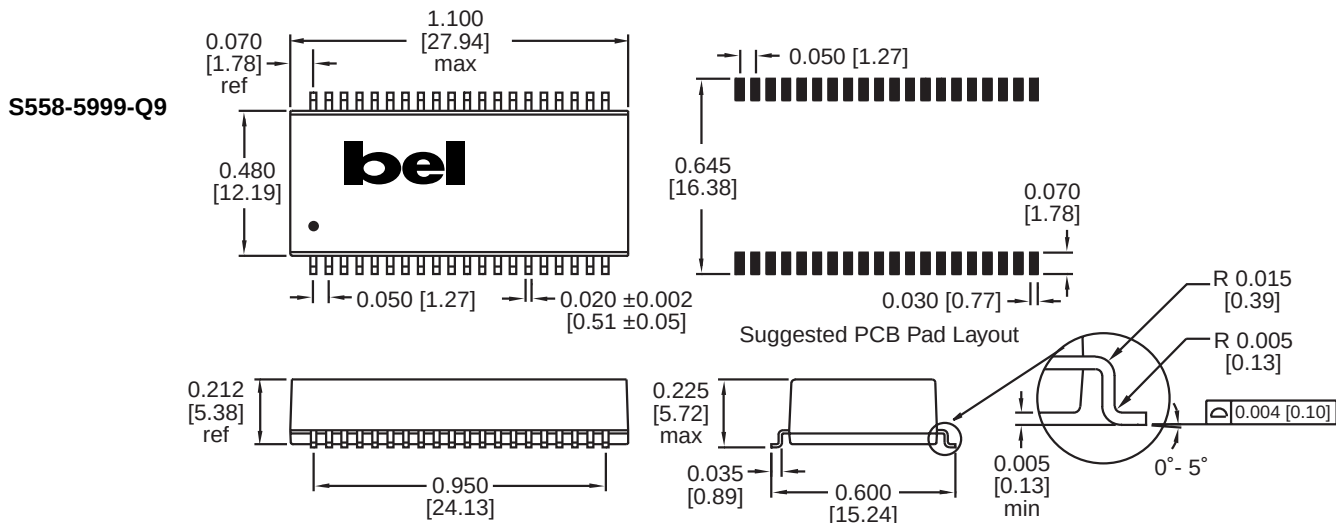


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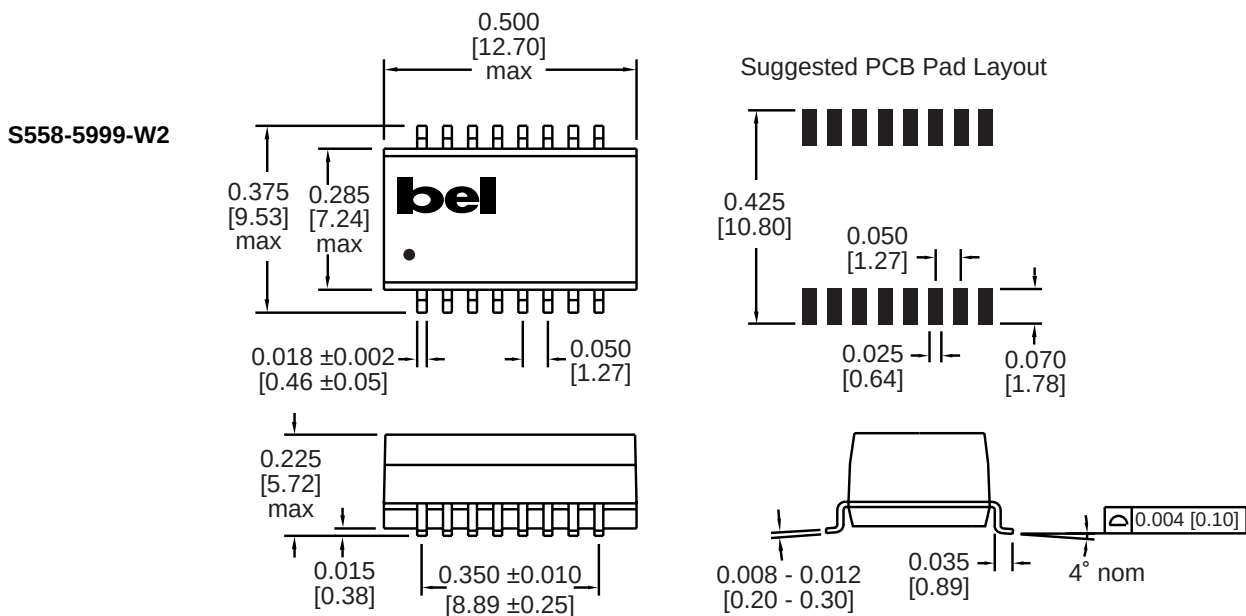
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MECHANICALS



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



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