

# 10/100BASE-T LAN MAGNETICS

## Extended Temperature Quad Transformer Modules

LM00414

- Quad, four-port designs optimize 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 1 : 1 RX transformers
- Operating temperature -40° to +85° C
- 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
- Minimum interwinding breakdown voltage of 1500 Vrms

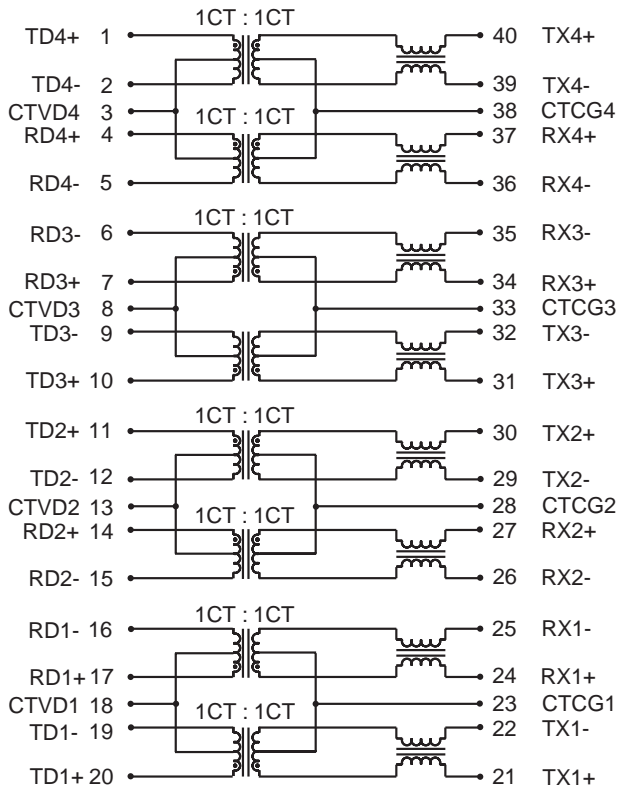
### ELECTRICAL SPECIFICATIONS AT 25° C

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		1MHz	30MHz
S558-5999-Z3	-1.0	-18	18 - 13log (f/30MHz)	-12	-40	-30	-65	-55	-45	-35	
S558-5999-Z4	-0.9	-20	-17	-15	-40	-30	-65	-50	-40	-38	
S558-5999-AA	-0.9	-20	-17	-15	-40	-30	-65	-50	-40	-38	

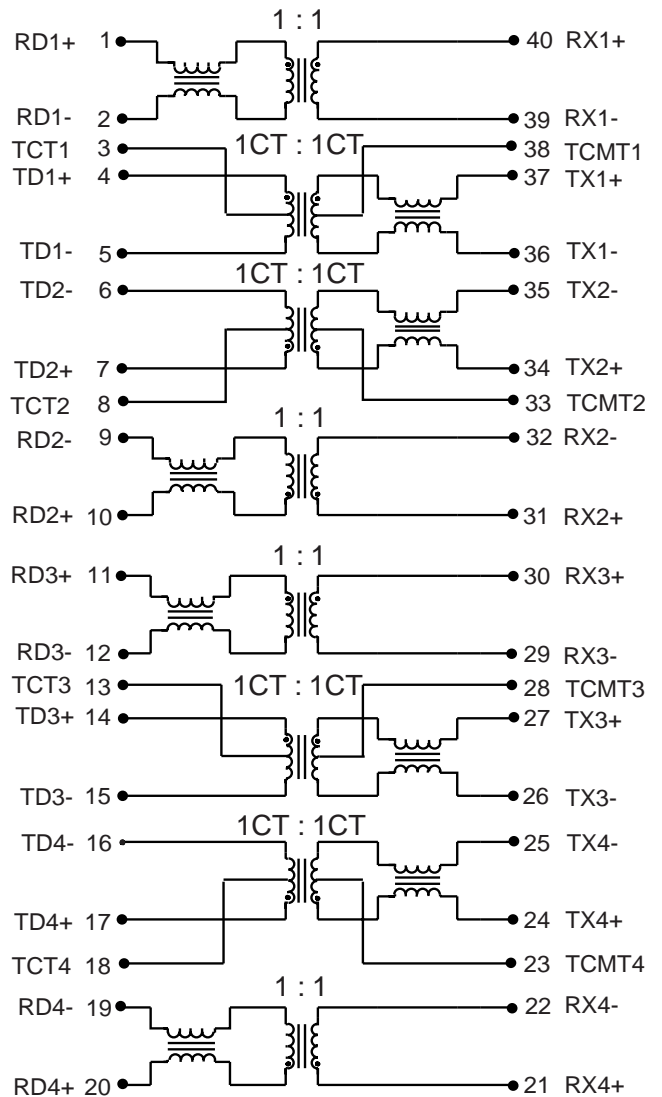
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### SCHEMATIC

#### S558-5999-AA



#### S558-5999-Z3 (Quad Port Dual Stack RJ-45)



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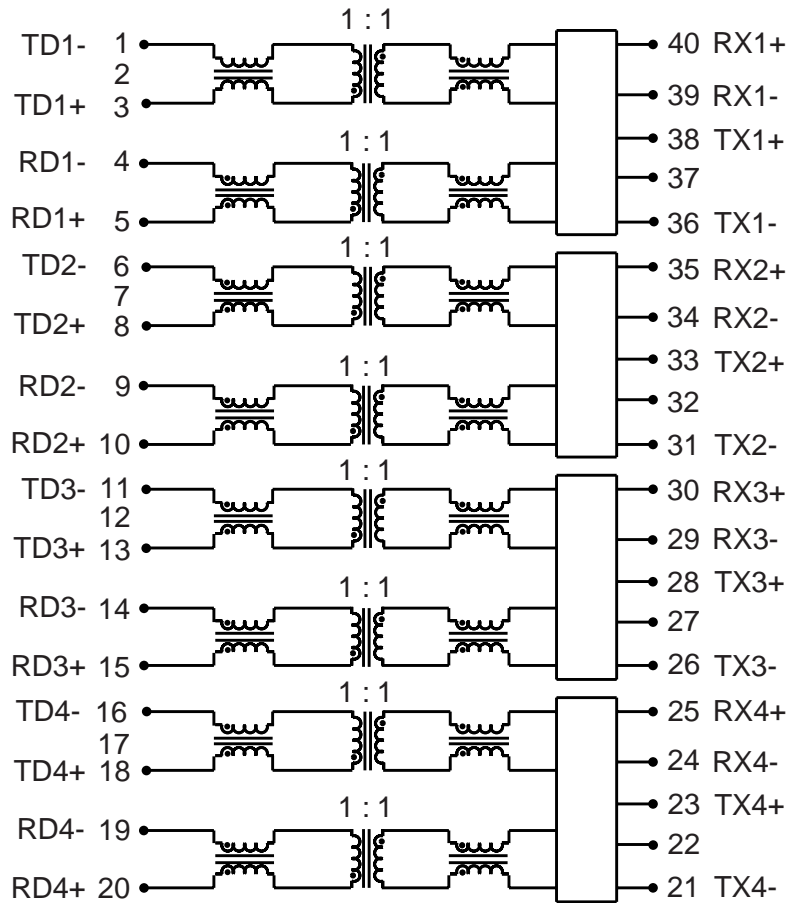
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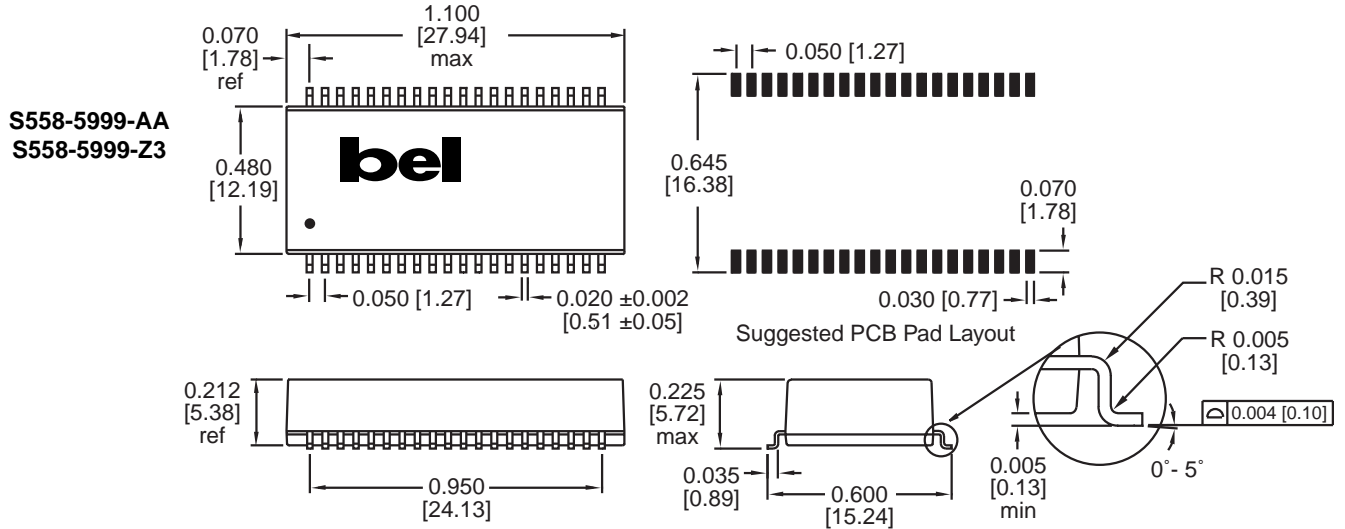
### SCHEMATIC

S558-5999-Z4

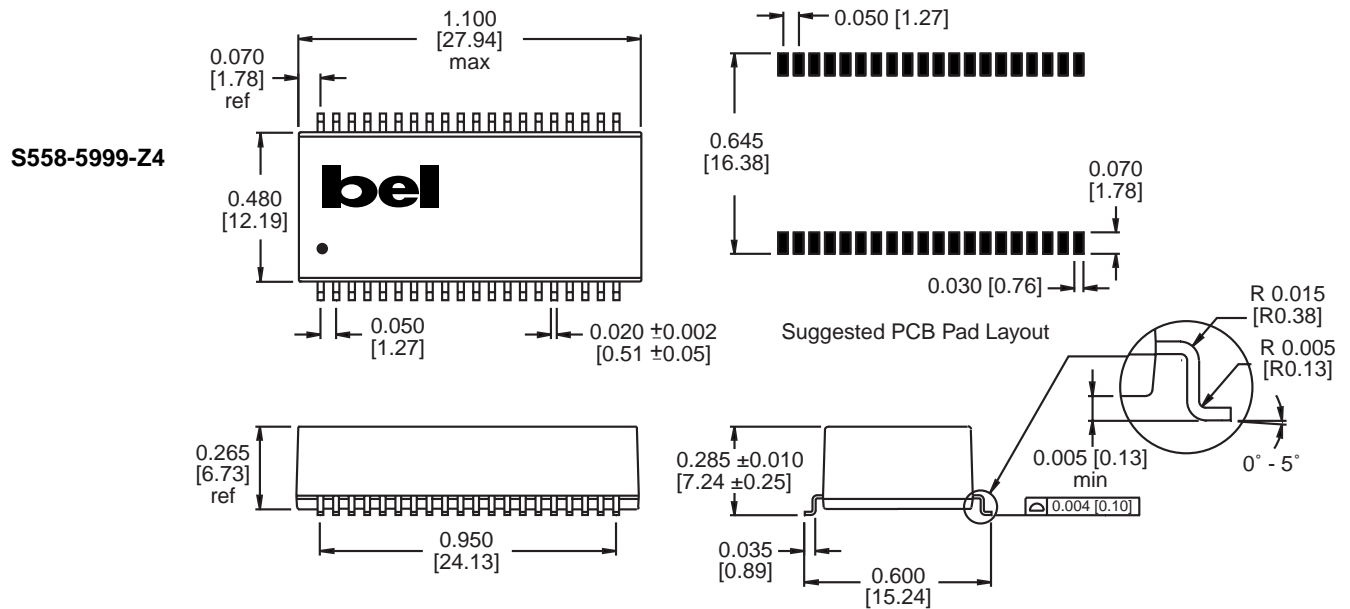


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### MECHANICALS



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



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