

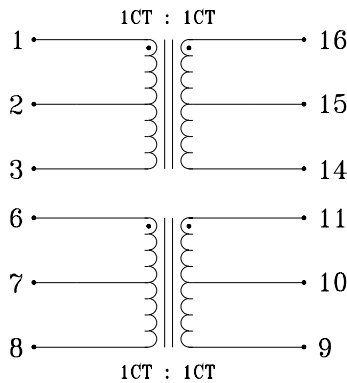
# HIGH SPEED LAN MAGNETICS

- For use in 100Base-TX, 10/100Base-TX, ATM 155 or 100 Mbps TP-FDDI applications
- Compatible with multiple PHY transceivers
- Low profile, surface mount packaging available
- Optional common mode choke available

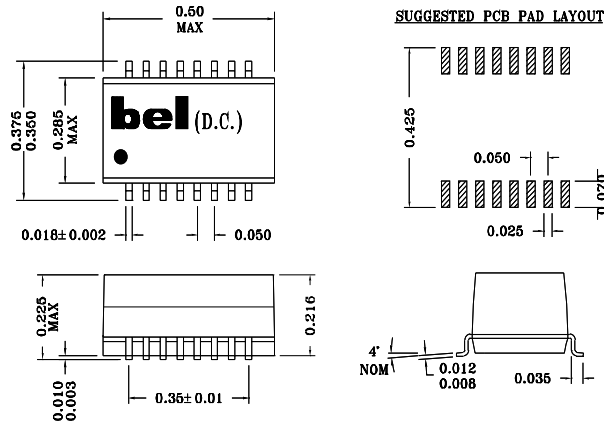
## ELECTRICALS AT 25°C

Part No.	Turns Ratio	Inductance OCL (μH) Min with 8mA DC Bias	Insertion Loss (dB) Max		Return Loss (dB) Typ		Hipot (Vrms) Min
			1MHz-100MHz	1MHz-30MHz	30MHz-60MHz	60MHz-80MHz	
S558-5999-03	1CT:1CT	350	-1.0	-16	16-20log(f/30MHz)	-10	2000

## SCHEMATIC



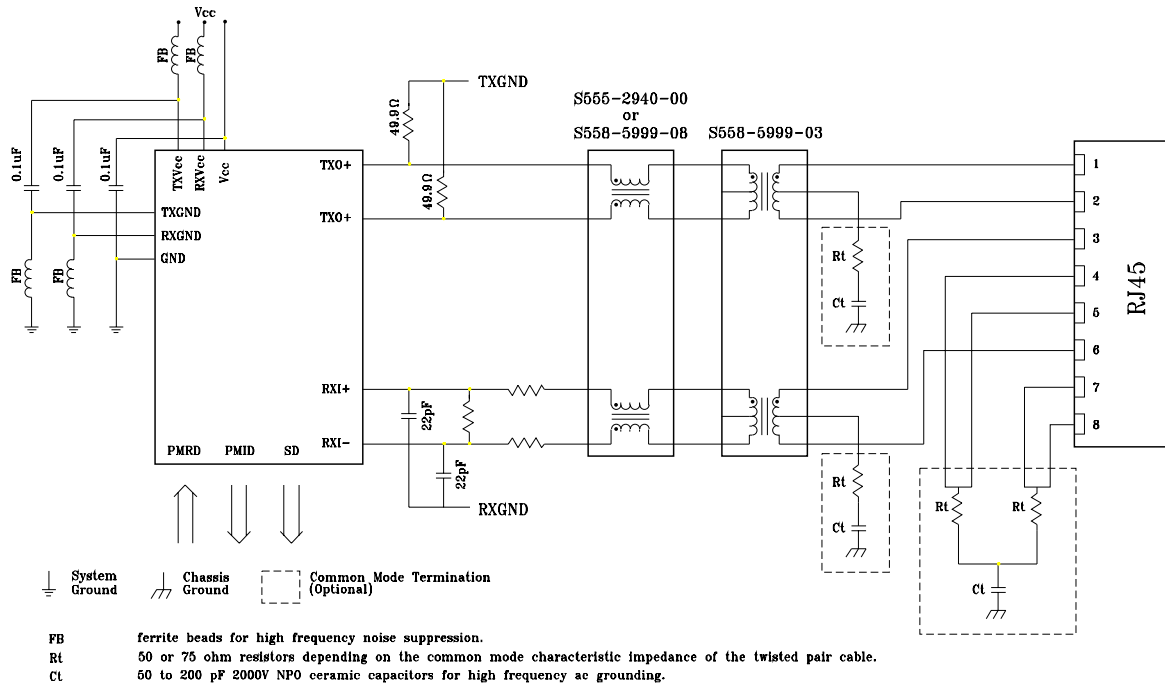
## MECHANICAL



Specifications subject to change without notice.

960031A

### APPLICATION CIRCUIT



### APPLICATION NOTES

- This part type has been designed for use in 100 Mbps TP-FDDI, 100Base-TX, 10/100Base-TX and ATM 155 Mbps applications over Category 5 UTP or STP cable.
- This part type is designed with high voltage isolation transformers only and provides 350µH OCL (inductance) with 8mA DC bias applied. Consult the Bel short form catalog and recommended application circuit for the specific configuration for this part type.
- Bel's low profile, surface mount packaging is ideal for high speed pick and place machinery. Parts can be shipped on tape and reel for high speed placement. Construction processes have been implemented for thermal compatibility with high temperature IR reflow assembly processing. Post dipping of leads assist with PC board solderability. Each part is optically inspected to meet rigid coplanarity requirements.

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