

TOKENRING NETWORKING COMPONENTS

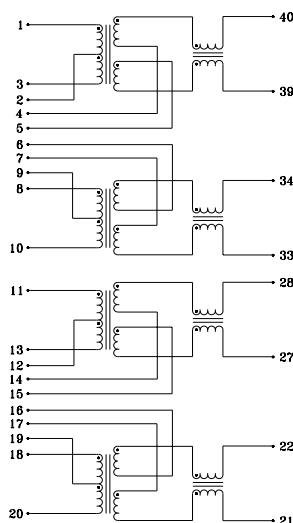
960045A

- Designed for use with token ring transceivers developed by Texas Instruments and Madge
- Dual, 2-port design integrates two channels of transmit and receive transformers plus common mode chokes
- Cost efficient design for multi-port applications
- Compliant with IEEE 802.5 standards
- Robust surface mount packaging rated to meet 225°C peak IR reflow temperature
- For use in either 100 ohm UTP or 150 ohm STP media systems

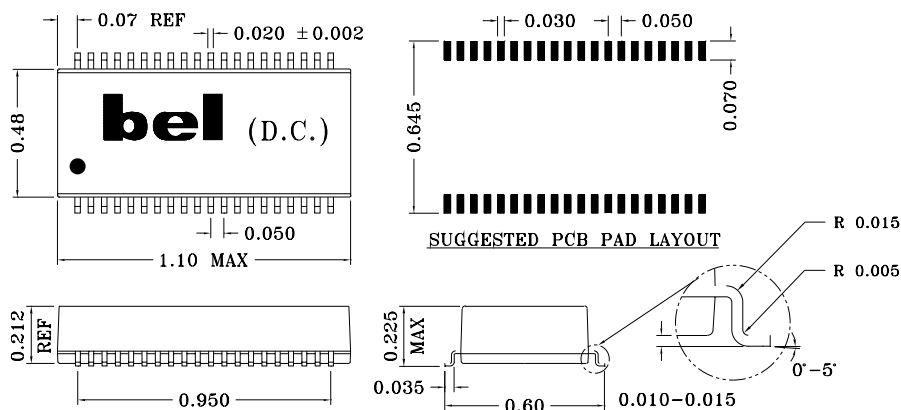
ELECTRICALS AT 25°C

Part No.	Turns Ratio	Return Loss (dB) Min		Insertion Loss (dB) Max				Common to Common Mode Rej (dB) Min			Crosstalk (dB) Min		
		1-17MHz	17-25MHz	4MHz	8MHz	16MHz	24MHz	5MHz	20MHz	200MHz	8MHz	16MHz	24MHz
S553-5999-42	1CT:1CT	-16	-9	-0.5	-0.8	-1.1	-1.9	-35	-35	-20	-55	-50	-45

SCHEMATIC



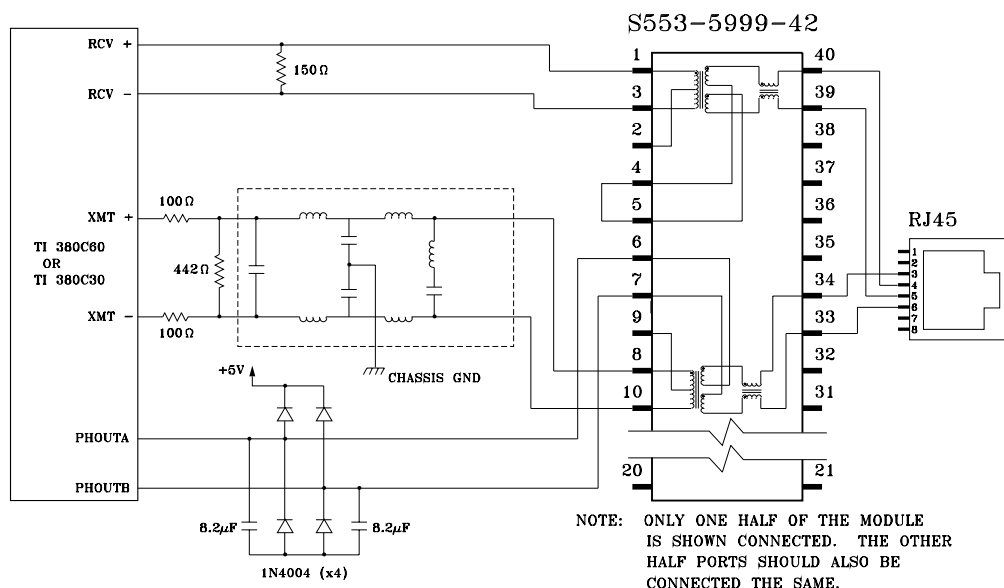
MECHANICAL



Specifications subject to change without notice.

TOKEN RING NETWORKING COMPONENTS

APPLICATION CIRCUIT



APPLICATION NOTES

- Bel has created this product for use with token ring 4/16 Mbps chipsets developed by Texas Instruments and Madge. The impedance of this part has been optimized for use in either 100 ohm UTP or 150 ohm STP media applications with only one RJ-45 connection. The Bel module provides isolation and impedance matching transformers plus common mode choke for two sets of transmit and receive channels, and is ideal for multi-port applications. External filtering is required.
- Suppression of board induced noise can be achieved with precision layout instructions, along with careful consideration of the selection and placement of discrete components for the interface circuit.
- 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.
- OCL (inductance) of this transformer is 616 μ H minimum. Optional lower inductance models can be made available.

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