HIGH SPEED LAN MAGNETICS

960002D

- Low profile, Type II surface mount packaging, compliant with IEEE 802.3 standards
- Individually designed to function with multiple PHY transceivers
- 225ºC peak IR reflow temperature rating
- 350µH OCL (inductance) with 8mA DC bias applied
- 2000 Vrms isolation

ELECTRICALS AT 25ºC

Part No.	Insertion Loss (dB) Typ 1MHz-100MHz	Return Loss (dB) Min 1MHz-30MHz	30MHz-60MHz	60MHz-80MHz	Crosstalk (dB) Min 1MHz-100MHz	Common to Diff Mode Rej (dB) Min 30MHz	100MHz	Common to Common Mode Rej (dB) Min 30MHz	100MHz	Schematic	Package Style
S558-5999-29	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	A	3
S558-5999-32	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	B	3
S558-5999-57	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	C	3
S558-5999-59	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	D	2
S558-5999-62	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	E	3
S558-5999-69	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	F	3
S558-5999-70	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	G	3
S558-5999-B3	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	H	1
S558-5999-D6	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	I	3
S558-5999-D7	-1.2	-16	16-20log(f/30MHz)	-10	-35	-50	-30	-50	-30	J	3

APPLICATION CHART

IC Manufacturer	IC Part Number	Bel Part Number
ICS	1890	S558-5999-32 S558-5999-59 S558-5999-69
NATIONAL	83840/83223	S558-5999-B3
MICROLINEAR	6692/6694/6698	S558-5999-62
QSI	6611	S558-5999-29 S558-5999-57 S558-5999-70
QSI	6612	S558-5999-D6 S558-5999-D7
SSI/TDK	78Q2120/2121	S558-5999-32 S558-5999-59 S558-5999-69

Specifications subject to change without notice.

Bel Fuse Inc. 198 Van Vorst Street, Jersey City, NJ 07302 • Tel: 201-432-0463 • Fax: 201-432-9542 • E-Mail: BelFuse@belfuse.com
Website: http://www.belfuse.com

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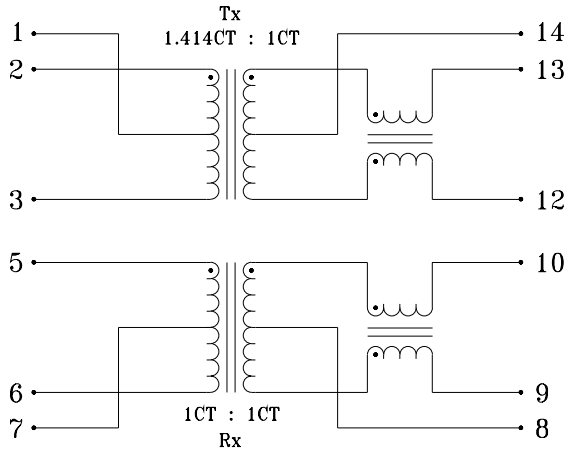
SCHEMATICS

A



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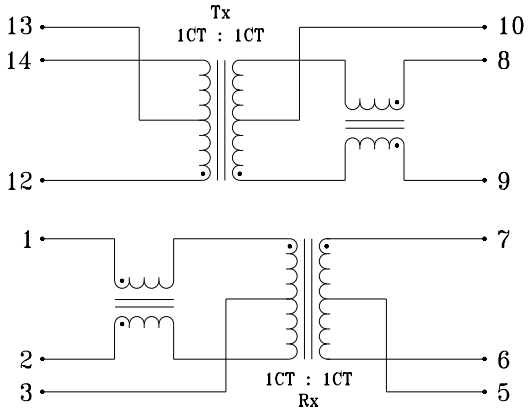

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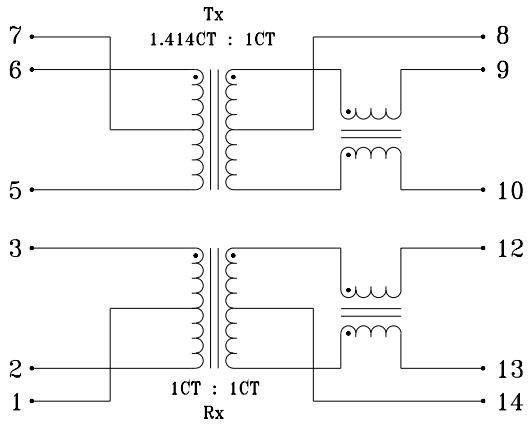

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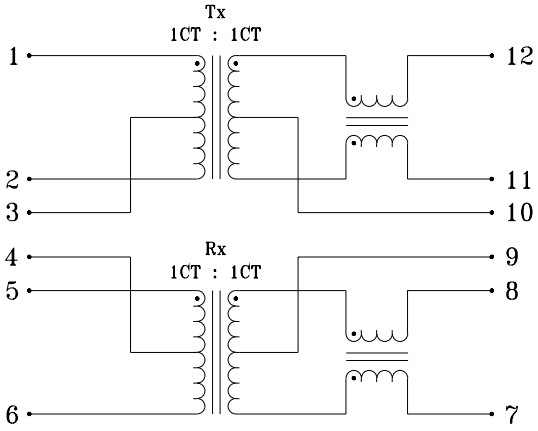

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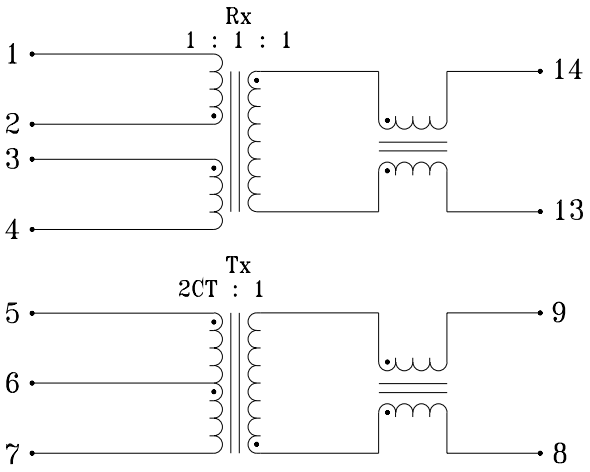
HIGH SPEED LAN MAGNETICS

960002D

SCHEMATICS (CONT'D)

E



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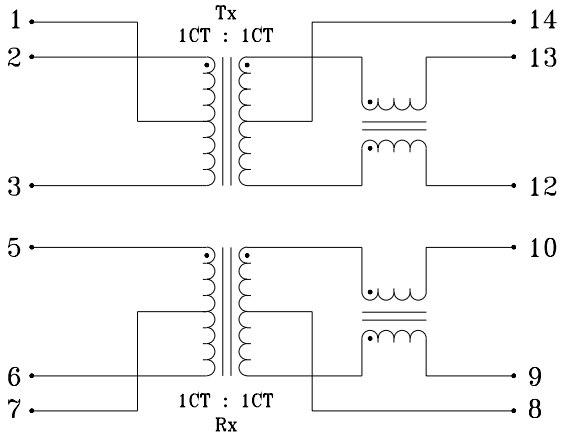

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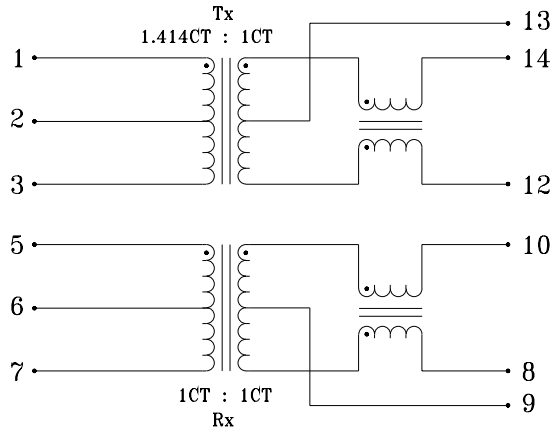

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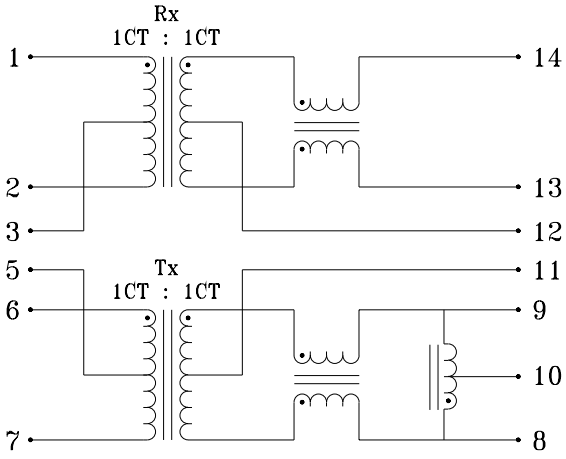

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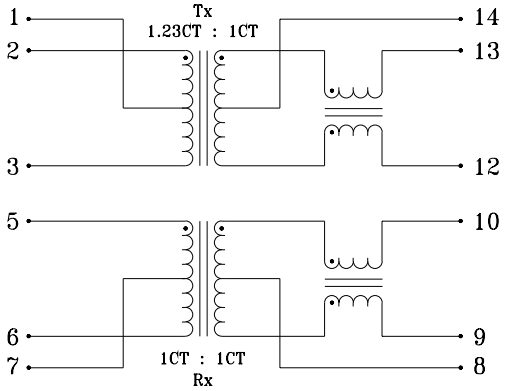

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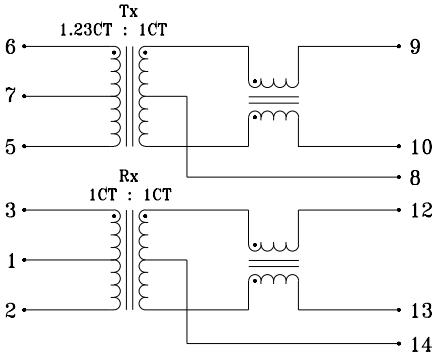

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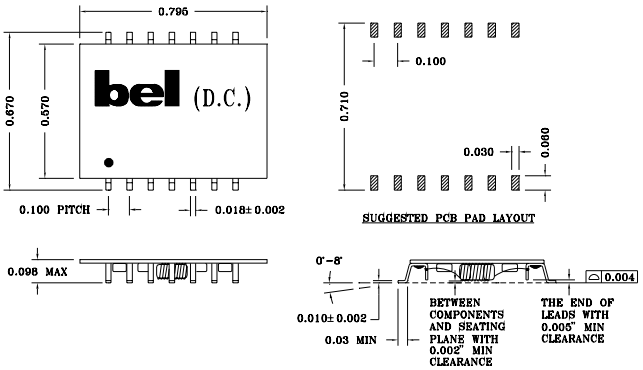
MECHANICALS

1



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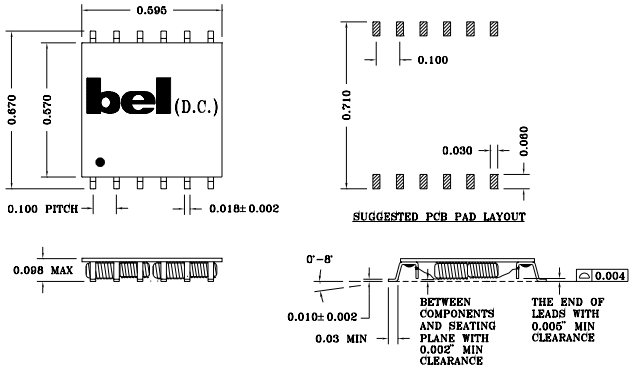

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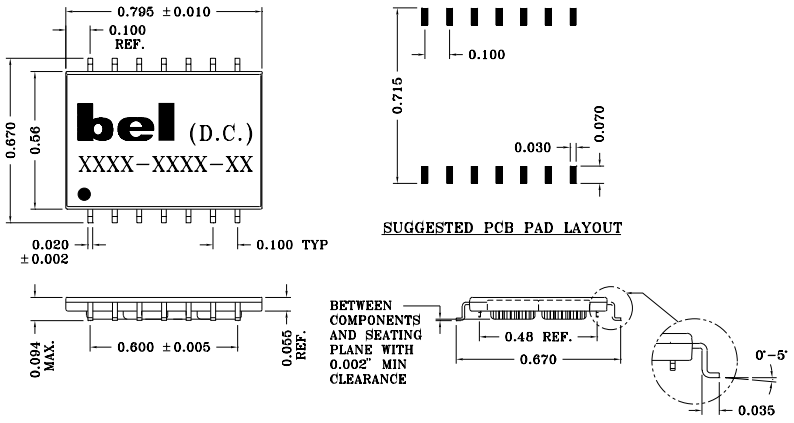

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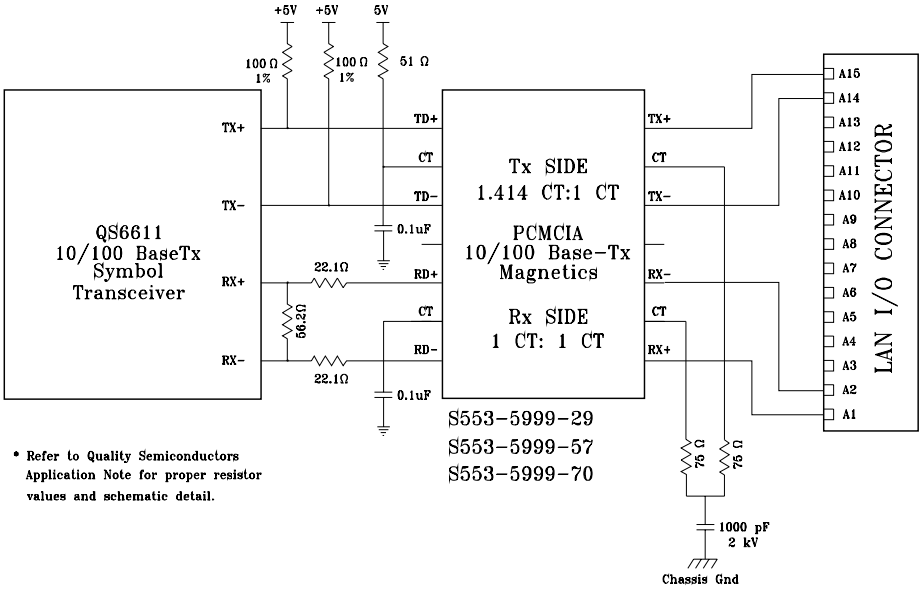
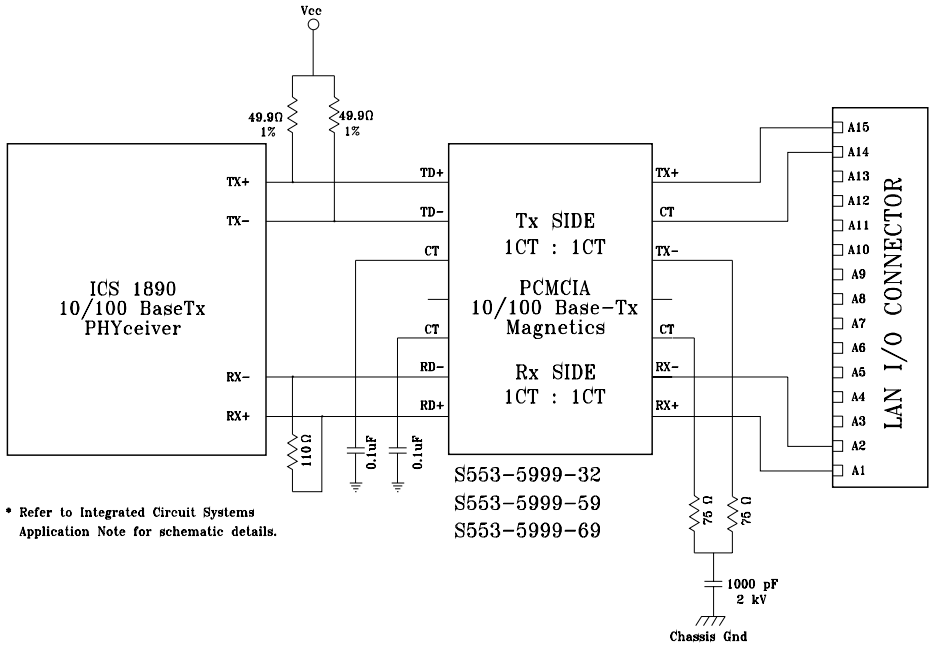
HIGH SPEED LAN MAGNETICS

APPLICATION CIRCUITS





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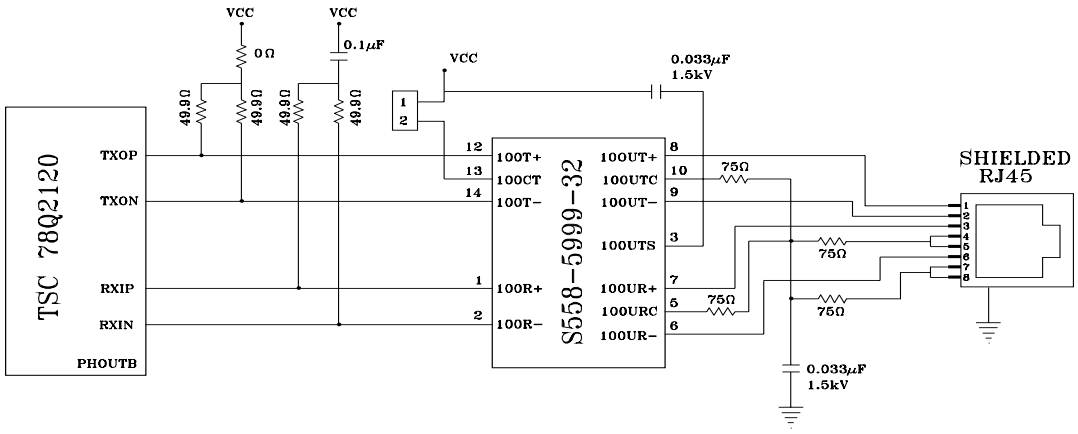
APPLICATION CIRCUITS (CONT'D)



* Network Interface Card Application

APPLICATION NOTES

- Each Bel part type is designed with high voltage isolation transformers and common mode chokes. The S558-5999-B3 also includes an impedance matched common mode termination. All designs have been created to provide 350μH OCL with 8mA DC bias applied. Consult the Bel short form catalog and request a recommended application circuit for the specific configuration of each individual Bel part type.
- Available with tape and reel packaging.
- For availability and timing of Type I height magnetics modules, please consult the nearest Bel office.
- Additional models are available providing transmit and receive functions in seperate packages, S558-5999-A0 and -A1.

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