

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
- 225°C peak IR reflow temperature rating
- 350µH OCL (inductance) with 8mA DC bias applied
- 2000 Vrms isolation

ELECTRICALS AT 25°C

Part No.	Insertion Loss (dB) Typ	Return Loss (dB) Min			Crosstalk (dB) Min	Common to Diff Mode Rej (dB) Min		Common to Common Mode Rej (dB) Min		Schematic	Package Style
	1MHz-100MHz	1MHz-30MHz	30MHz-60MHz	60MHz-80MHz	1MHz-100MHz	30MHz	100MHz	30MHz	100MHz		
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

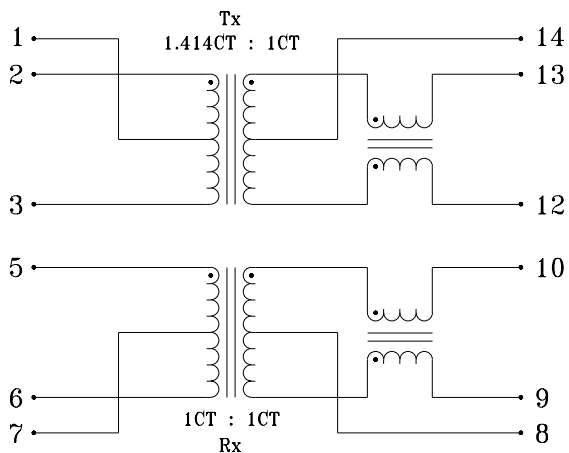
IC Manufacturer	IC Part Number	Bel Part Number
ICS	1890	S558-5999-32 S558-5999-59 S558-5999-69
NATIONAL	83840/83223	S558-5999-B3
MICROLINEAR	6692/6694/6698	S558-5999-62
QSI	6611	S558-5999-29 S558-5999-57 S558-5999-70
QSI	6612	S558-5999-D6 S558-5999-D7
SSI/TKD	78Q2120/2121	S558-5999-32 S558-5999-59 S558-5999-69

Specifications subject to change without notice.

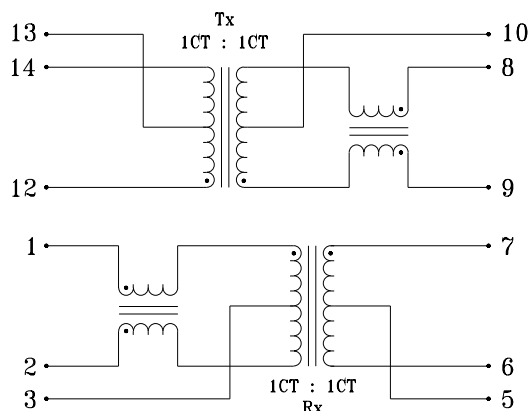
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SCHEMATICS

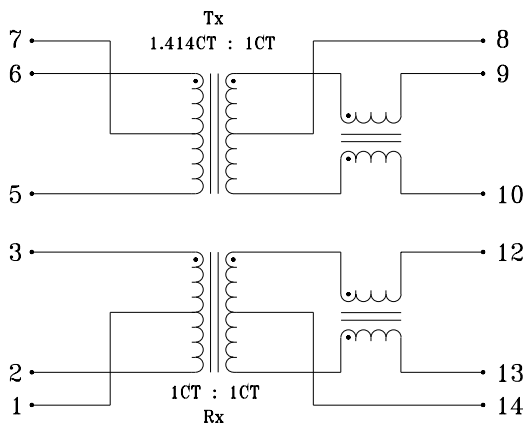
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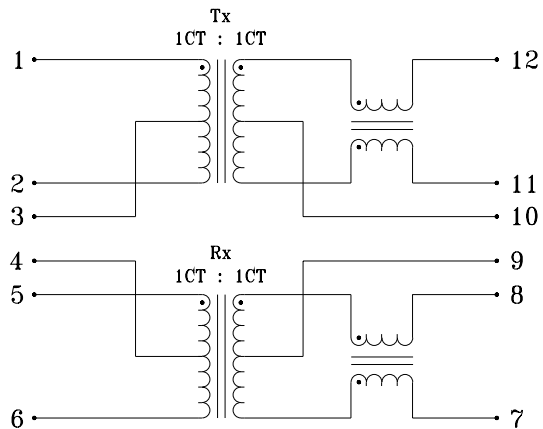
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C



D

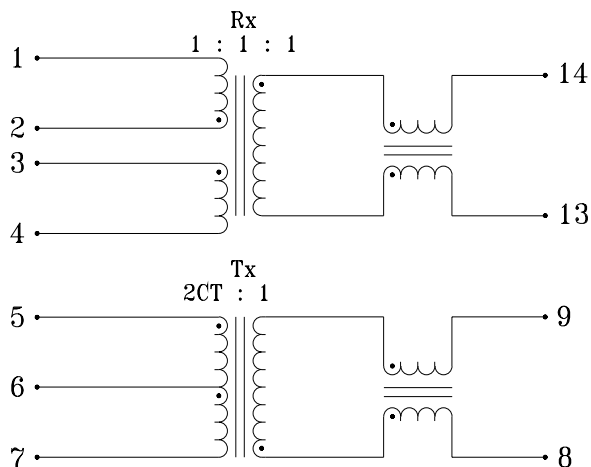


Specifications subject to change without notice.

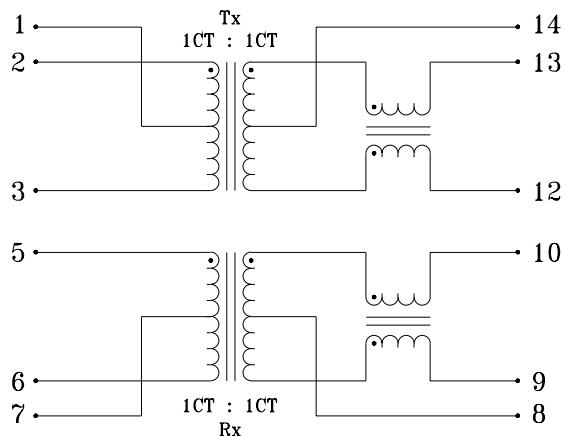
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SCHEMATICS (CONT'D)

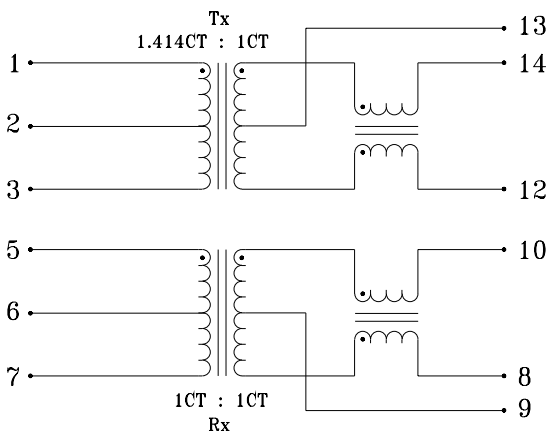
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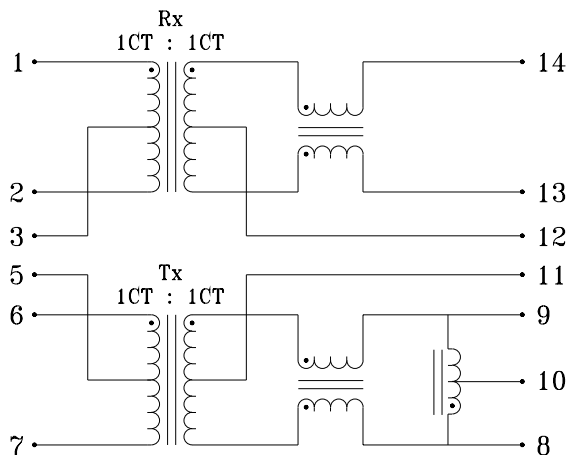
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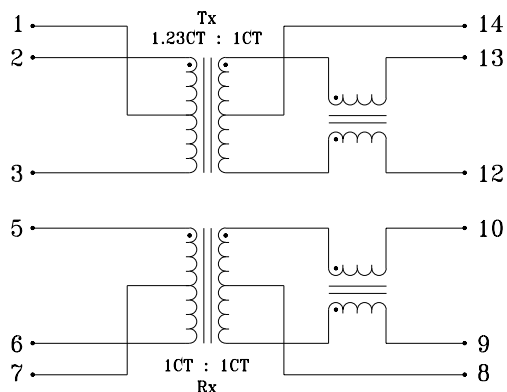
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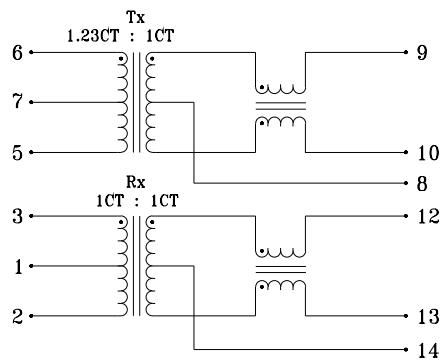
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I



J



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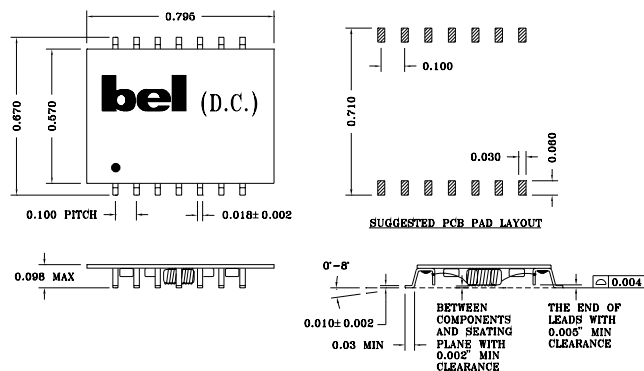
defining a degree of excellence

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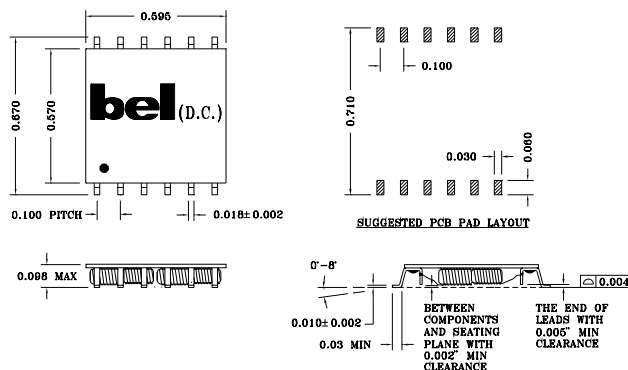
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MECHANICALS

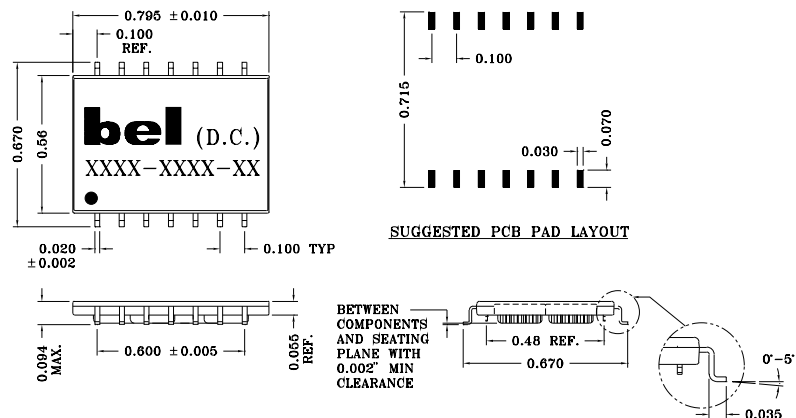
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2

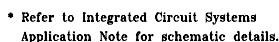
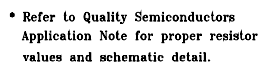


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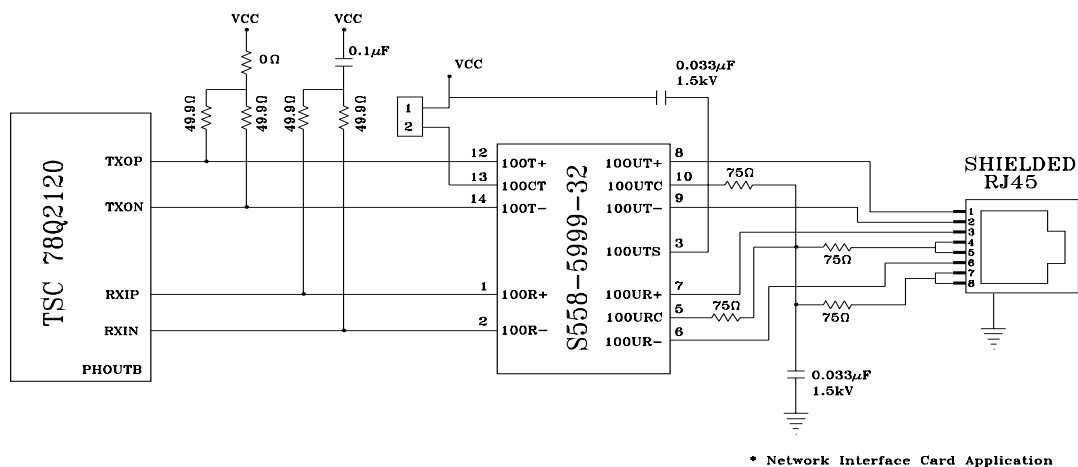
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APPLICATION CIRCUITS



L108

APPLICATION CIRCUITS (CONT'D)



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 separate packages, S558-5999-A0 and -A1.

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