

HIGH SPEED LAN MAGNETICS

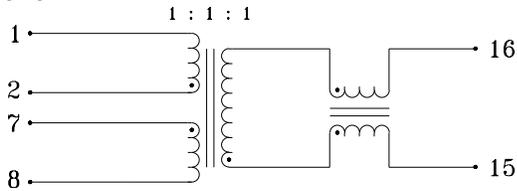
- Designed for use with Microlinear ML6692/6694/6698 10/100 Mbps PHY transceivers
- Low cost, space efficient surface mount packaging
- 350µH OCL (inductance) with 8mA DC bias applied
- 2000 Vrms isolation

ELECTRICALS AT 25°C

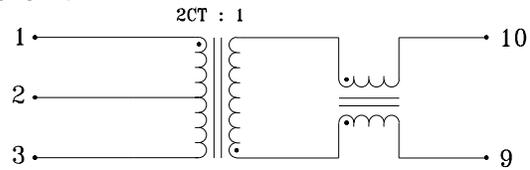
Part No.	Turns Ratio	Insertion Loss (dB) Max 1MHz-100MHz	Return Loss (dB) Min 1MHz-30MHz	Return Loss (dB) Min 30MHz-80MHz	Common to Diff Mode Rej (dB) Min		Common to Common Mode Rej (dB) Min		Schematic
					30MHz	100MHz	30MHz	100MHz	
S558-5999-16	1:1:1	-1.0	-18	-12	-50	-40	-40	-30	A
S558-5999-17	2CT:1	-1.0	-18	-12	-50	-40	-40	-30	B

SCHEMATICS

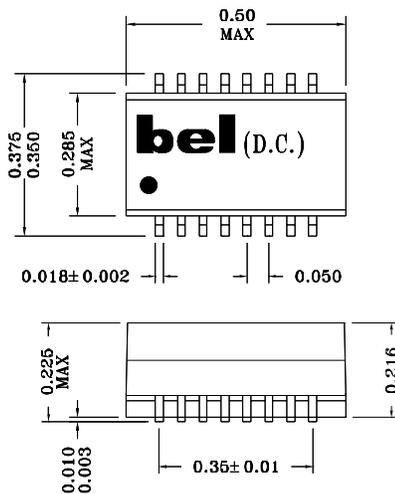
A
Receive



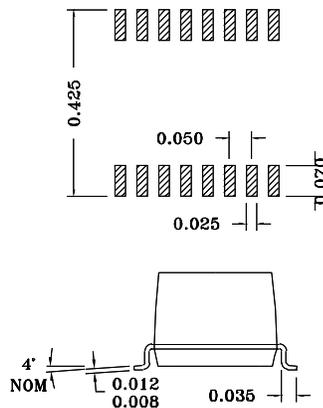
B
Transmit



MECHANICAL



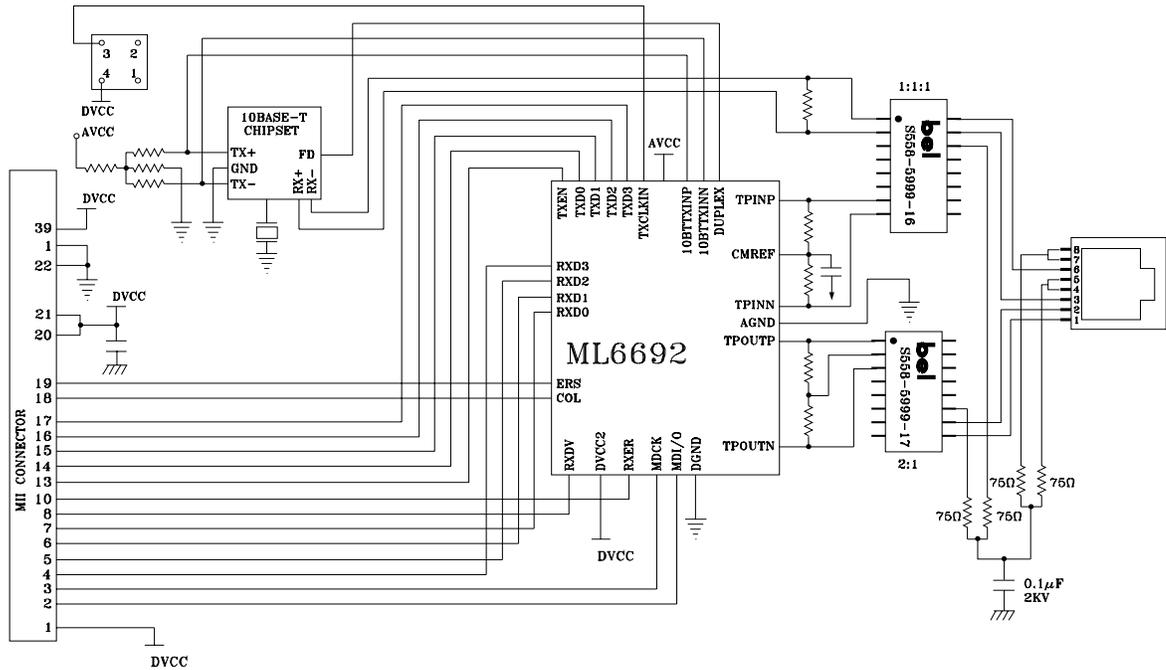
SUGGESTED PCB PAD LAYOUT



Specifications subject to change without notice.

960027A

APPLICATION CIRCUIT



APPLICATION NOTES

- These Bel part types have been designed for use in 10 Mbps or 10/100 Mbps data transmission systems over category 5 UTP/STP cable. The combination of these two parts, when used in the recommended application circuit, provides superior EMI noise suppression, high voltage isolation, wave shaping and fast, but controlled rise times. All parts meet IEEE 802.3 standards, which includes 350μH OCL (inductance) when 8mA of DC bias is applied.
- The Bel part types have been tested and qualified for use with Microlinear ML6692/6694/6698 transceivers.
- 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.

Corporate Office

Bel Fuse Inc.
198 Van Vorst Street, Jersey City, NJ 07302-4496
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: BelFuse@belfuse.com
Internet: <http://www.belfuse.com>

Far East Office

Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Preston PR1 8UD
Lancashire, U.K.
Tel: 44-1772-556601
Fax: 44-1772-888366