defining a degree of excellence

HIGH SPEED LAN MAGNETICS

FOR BROADCOM TRANSCEIVER CHIPSETS



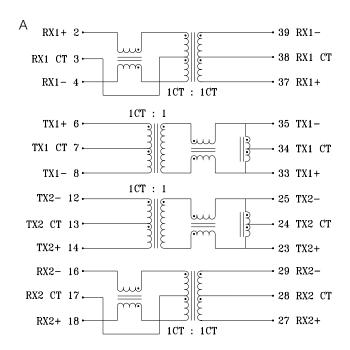
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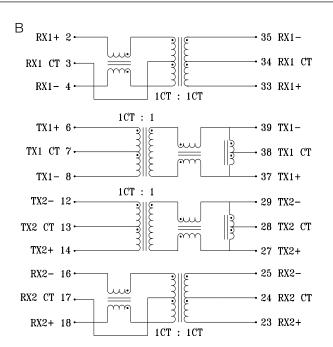
- Designed for use with Broadcom BCM 5208 10/100 Mbps PHY transceiver
- Family of parts designed in common package providing multiple design options, including internal crossovers to reduce pcb layers and improve performance
- Dual, 2-port and quad, 4-port designs offer best space, performance and cost options
- 2000 Vrms isolation
- Low profile, surface mount packaging rated to withstand 225°C peak IR reflow temperature

ELECTRICALS AT 25°C

	Insertion Loss															
Part No.	Insertion Loss (dB) Typ 1MHz-125MHz	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						
S558-5999-47	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	Е						
S558-5999-A3	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	F						
S558-5999-A4	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	Α						
S558-5999-A5	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	G						
S558-5999-A6	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	В						
S558-5999-A7	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	Н						
S558-5999-A8	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	С						
S558-5999-A9	-1.0	-16	16-20log(f/30MHz)	-10	-35	-50	-40	-40	-30	D						

SCHEMATICS





Specifications subject to change without notice.

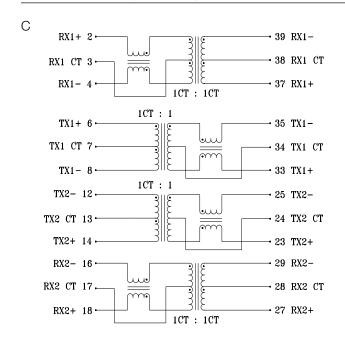


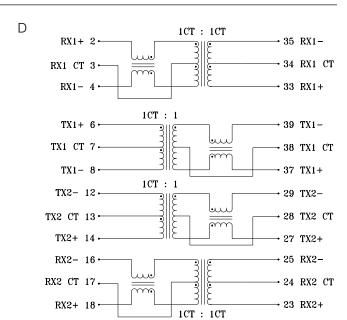
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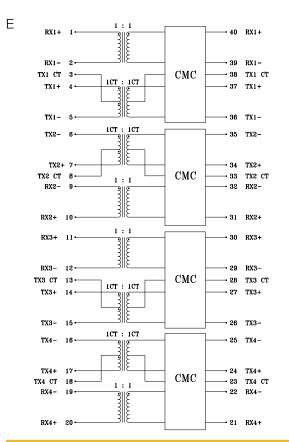
FOR BROADCOM TRANSCEIVER CHIPSETS

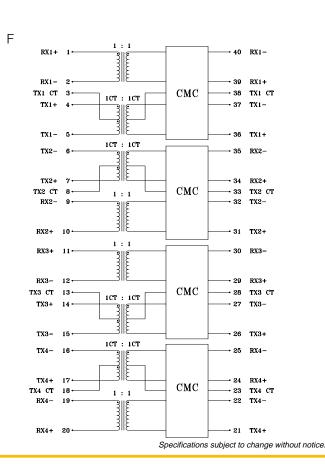
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SCHEMATICS (CONT'D)









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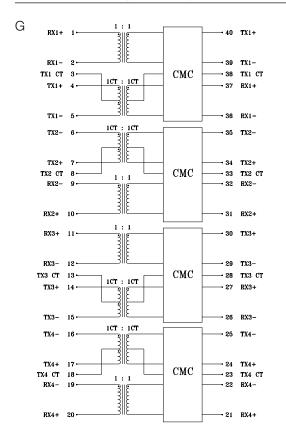
HIGH SPEED LAN MAGNETICS

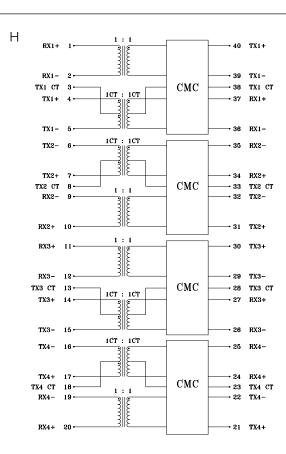
FOR BROADCOM TRANSCEIVER CHIPSETS



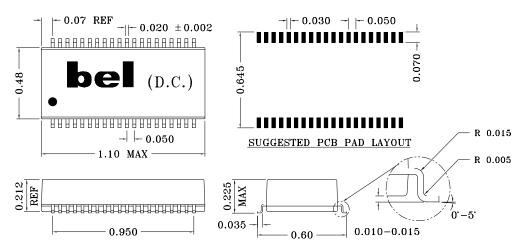
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SCHEMATICS (CONT'D)





MECHANICAL



Specifications subject to change without notice.



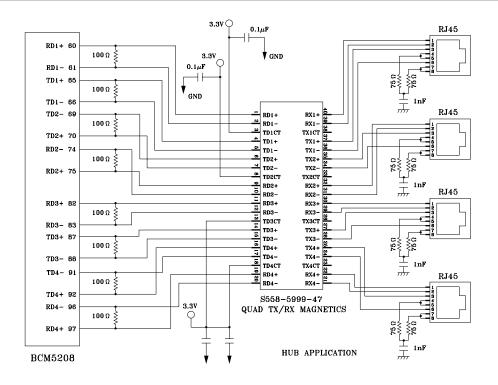


HIGHSPEEDLAN MAGNETICS

FOR BROADCOM TRANSCEIVER CHIPSETS

960078B

APPLICATION CIRCUIT



APPLICATION NOTES

- The Broadcom BCM 5208 is optimized for use in repeater and switch applications. The Bel parts listed on this data sheet provide a very cost efficient interface, in addition to improving performance, reducing PCB layers and minimizing board space. These Bel parts will require minimal or no trace crossovers which should reduce PCB layers and allow for straight and short line traces from the transceiver and to the connectors.
- \$558-5999-47 is a quad, 4-port device optimized to provide a straight line connection with stackable RJ-45 connectors.
- S558-5999-A3 and A5 are quad, 4-port devices optimized to provide a straight line connection with single in-line connectors.
- S558-5999-A7 is a quad, 4-port device optimized to provide a straight line connection with reversed pinout stackable RJ-45 connectors.
- S558-5999-A4 and A6 are dual, 2-port devices optimized for use with single in-line connectors and also includes an impedance matched common mode termination.
- S558-5999-A8 and A9 are dual, 2-port devices optimized for use with single in-line connectors.
- 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