

10BASE-T LAN MAGNETICS

Quad Transformer Modules

LM00501

- Transformer turns ratio RX 1 : 1 and TX 1CT : 1.41CT
- Filterless quad, four-port designs with common footprint and pinouts
- Optimized for use with stackable RJ-45 connectors
- Designs utilize standard 40 pin SMD packaging
- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Quad design offers best space, performance and cost efficiency
- Operating temperature 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

ELECTRICAL SPECIFICATIONS AT 25° C

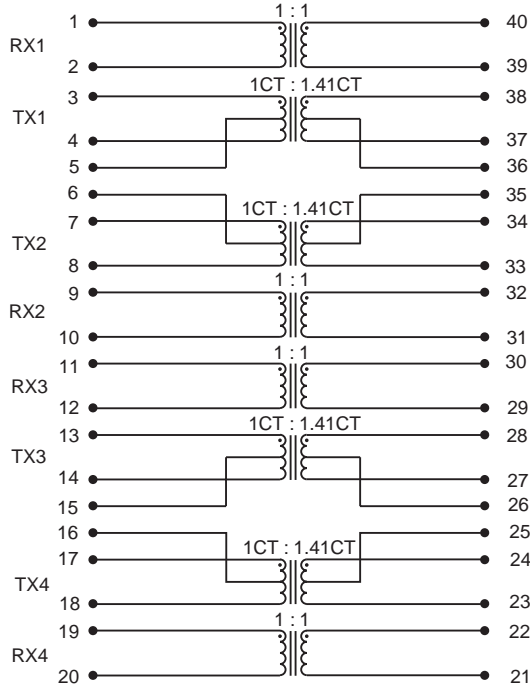
Part Number	OCL Inductance μ H min	Insertion Loss dB max	Return Loss dB min	Common to Common Mode Rejection dB min		Crosstalk dB min
		1MHz to 10MHz	1MHz to 10MHz	10MHz to 30MHz	100MHz	1MHz to 10MHz
Transformers Only						
S553-2940-02	100	-1.0	-18	---	---	-40
S553-5999-54	100	-1.0	-18	---	---	-40
Transformers and Common Mode Chokes						
S553-2940-01	100	-1.0	-18	-40	-30	-40
S553-2940-03	100	-1.0	-18	-40	-30	-40
S553-2940-04	100	-1.0	-18	-40	-30	-40
S553-2940-08	100	-1.0	-18	-40	-30	-40
S553-2940-09	100	-1.0	-18	-40	-30	-40
S553-5999-38	100	-1.0	-18	-40	-30	-40

©2001 Bel Fuse Inc. Specifications subject to change without notice. 09.01

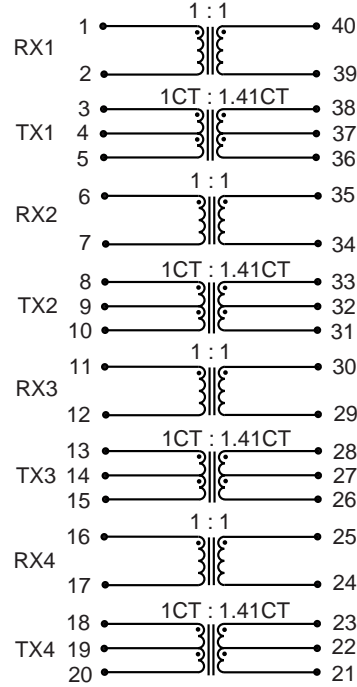
LM00501

SCHEMATICS

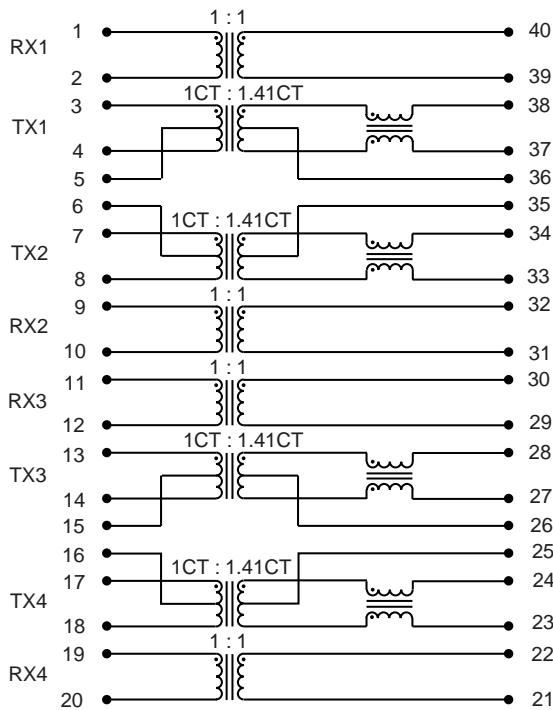
S553-2940-02



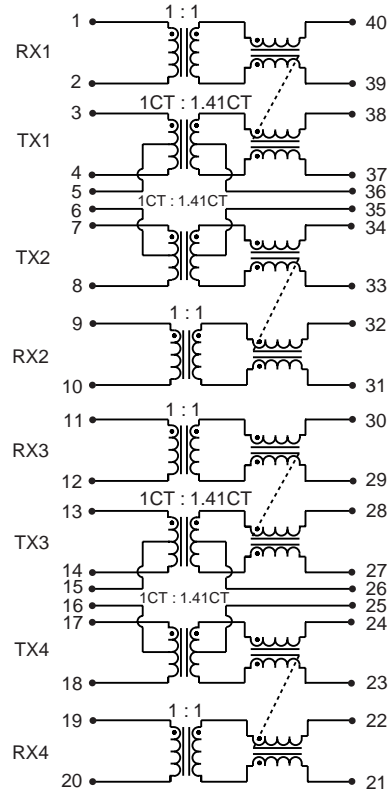
S553-5999-54



S553-2940-01



S553-2940-03



©2001 Bel Fuse Inc. Specifications subject to change without notice. 09.01

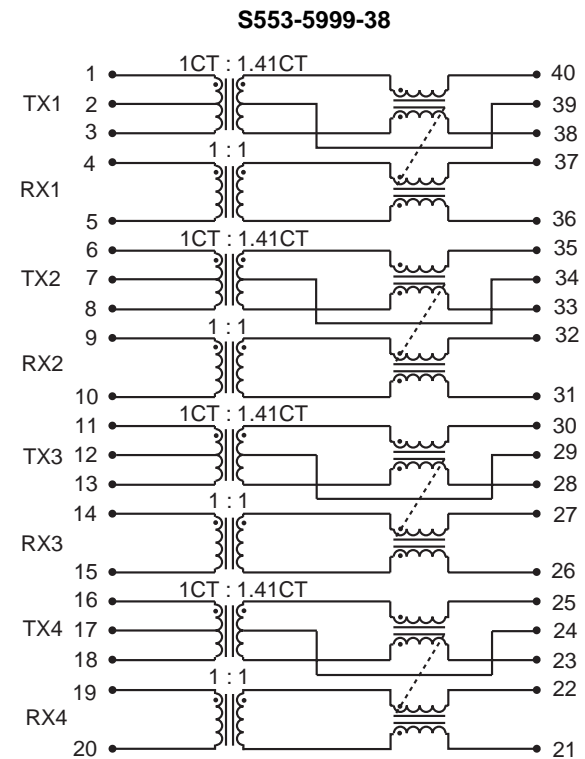
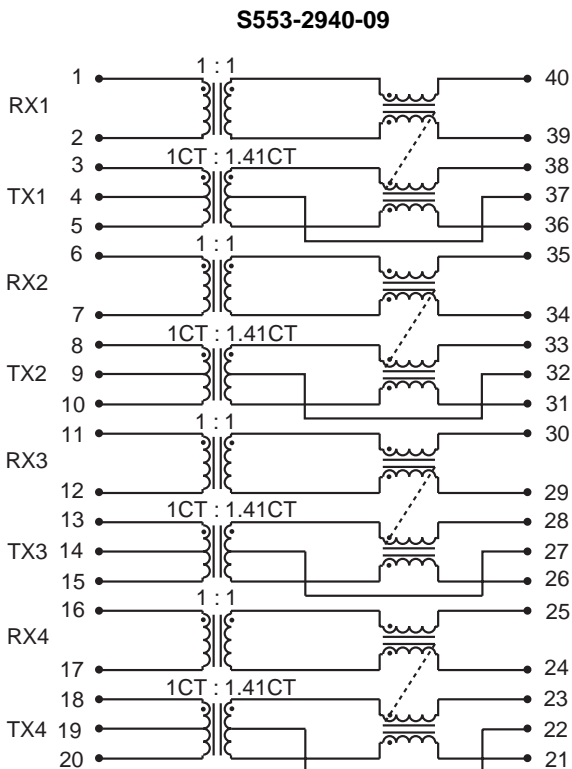
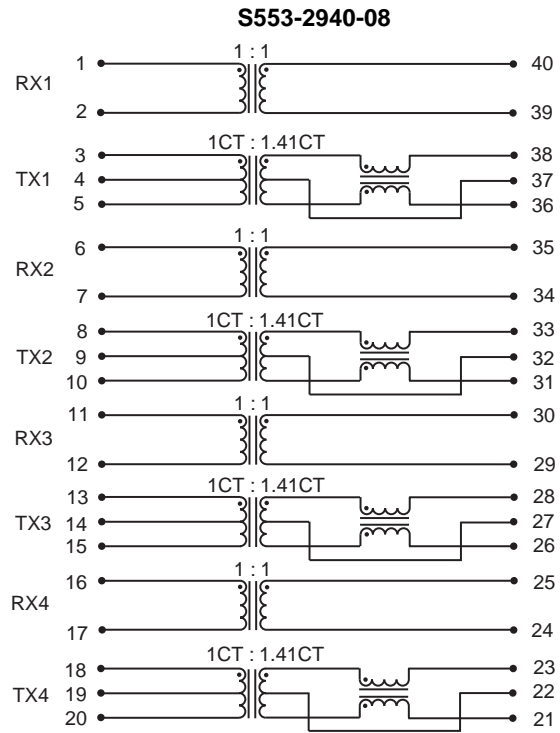
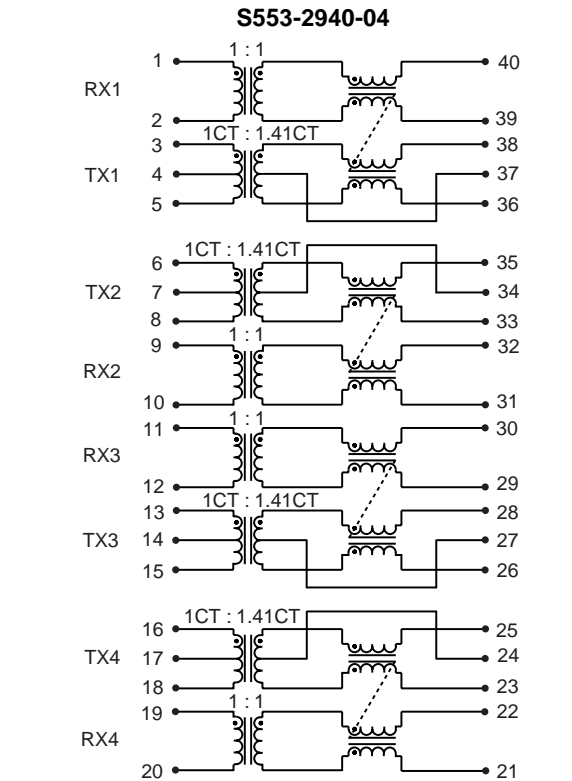
Bel Fuse Inc. 206 Van Vorst Street, Jersey City, NJ 07302 • Tel 201-432-0463 • Fax 201-432-9542 • www.belfuse.com

10BASE-T LAN MAGNETICS

Quad Transformer Modules

LM00501

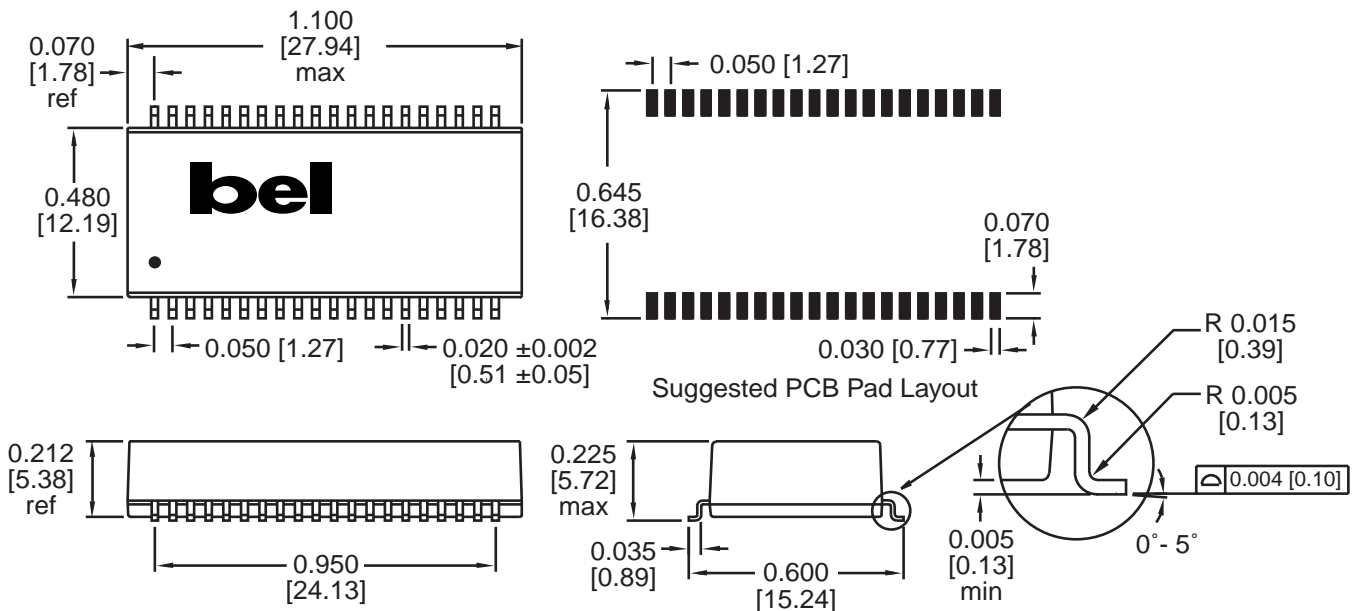
SCHEMATICS



©2001 Bel Fuse Inc. Specifications subject to change without notice. 09.01

MECHANICAL

S553-2940-01
S553-2940-02
S553-2940-03
S553-2940-04
S553-2940-08
S553-2940-09
S553-5999-38
S553-5999-54



Dimensions are in inches [millimeters].
Standard dimension tolerance is ±0.005 [0.13] unless otherwise noted.

CORPORATE

Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302
Tel 201-432-0463
Fax 201-432-9542
www.belfuse.com

L5-8

FAR EAST

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

EUROPE

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Suite G7, Preston
Lancashire, PR1 8UD, U.K.
Tel 44-1772-556601
Fax 44-1772-888366
www.belfuse.com