

10/100BASE-T LAN MAGNETICS

Quad Transformer Modules

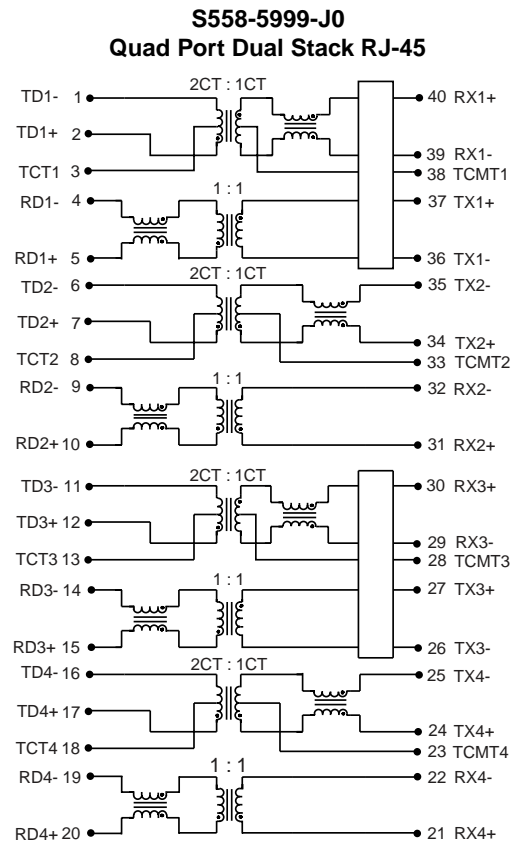
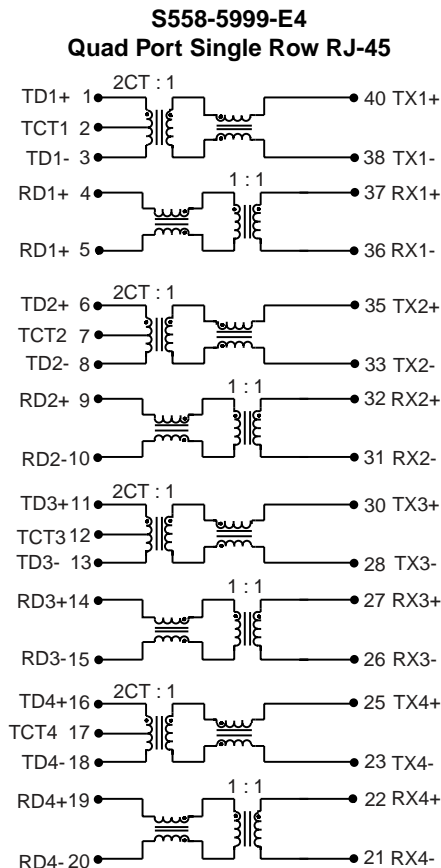
LM00404

- Quad, four-port designs provide excellent EMI and common mode noise suppression
- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Meets all IEEE 802.3 standards including 350µH with 8mA bias
- Minimum interwinding breakdown voltage of 1500 Vrms
- Operating temperature 0° to 70° C

ELECTRICAL SPECIFICATIONS AT 25° C

| Part Number | Turns Ratio | | Insertion Loss dB max | Return Loss dB min | | | | Common to Differential Mode Rejection dB min | Common to Common Mode Rejection dB min | Crosstalk dB min | | | |
|--------------|--------------|-------|-----------------------|--------------------|----------------------|----------------|----------------|--|--|------------------|------|-------|-------|
| | TX | RX | | 100kHz to 100MHz | 100kHz to 30MHz | 30MHz to 60MHz | 60MHz to 80MHz | | | 100kHz to 100MHz | 1MHz | 30MHz | 60MHz |
| S558-5999-E4 | 2CT : 1 | 1 : 1 | -1.0 | -18 | 18 - 13log (f/30MHz) | -12 | 40 | 30 | -65 | -55 | -45 | -35 | |
| S558-5999-J0 | 2CT : 1CT | 1 : 1 | -1.0 | -18 | 18 - 13log (f/30MHz) | -12 | 40 | 30 | -65 | -55 | -45 | -35 | |
| S558-5999-77 | 1.23CT : 1CT | 1 : 1 | 1.0 | -18 | 18 - 13log (f/30MHz) | -12 | 40 | 30 | -65 | -55 | -45 | -35 | |

SCHEMATICS

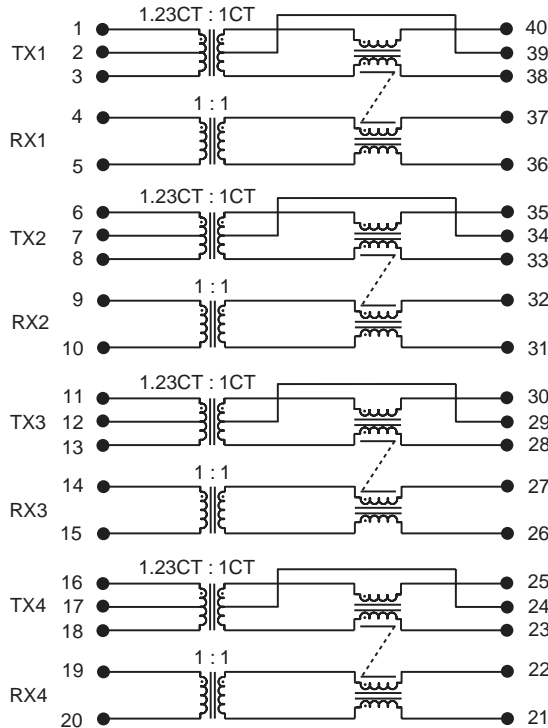


©2001Bel Fuse Inc. Specifications subject to change without notice. 09.01

LM00404

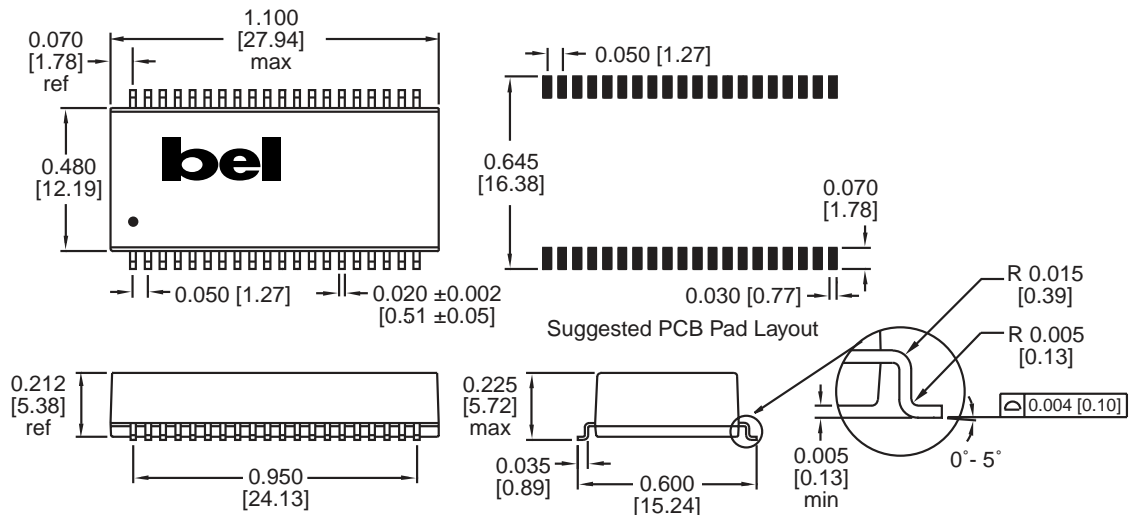
SCHEMATICS

S558-5999-77



MECHANICAL

S558-5999-77
S558-5999-E4
S558-5999-J0



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

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

CORPORATE

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

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