



TM00405

MODEM MAGNETICS

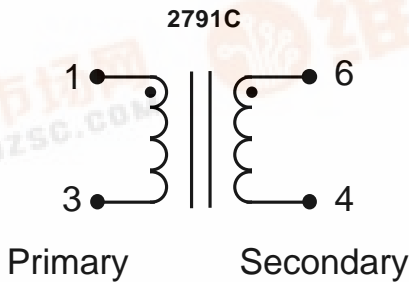
V.90 Modem Transformer

- Provides isolation and balance while minimizing signal distortion and insertion loss in high-speed modem applications
- Designed to match a 600Ω line to a 374Ω load with no direct current in the windings
- Approved by UL and CSA
- Minimum interwinding breakdown voltage of 1000 Vrms
- Qualified per Bellcore TR-TSY-000357-1

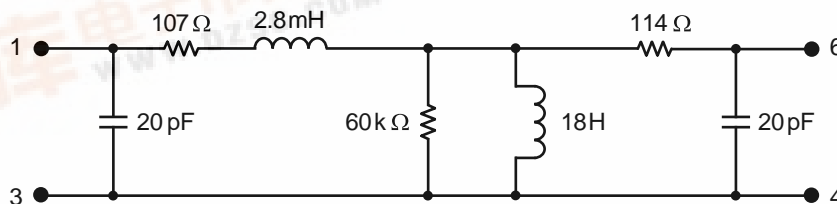
ELECTRICAL SPECIFICATIONS at 25° C

| Part Number | Turns Ratio ± 2% | Insertion Loss dB | Return Loss dB | Frequency Response dB | DCR Ω max | | Harmonic Distortion dB | Longitudinal Balance dB |
|-------------|---------------------|----------------------|-------------------|--------------------------|-----------------|-----|---------------------------|----------------------------|
| | | @ 1 kHz | 300 Hz - 3500 Hz | 200 Hz - 4 kHz | Pri | Sec | -10 dBm, 600 Hz | 300 Hz - 3500 Hz |
| 2791C | 1 : 1 | ≤ 2.0 | ≥ 25 | ≤ 0.1 | 118 | 125 | ≤ -84 | ≥ 60 |

SCHEMATIC



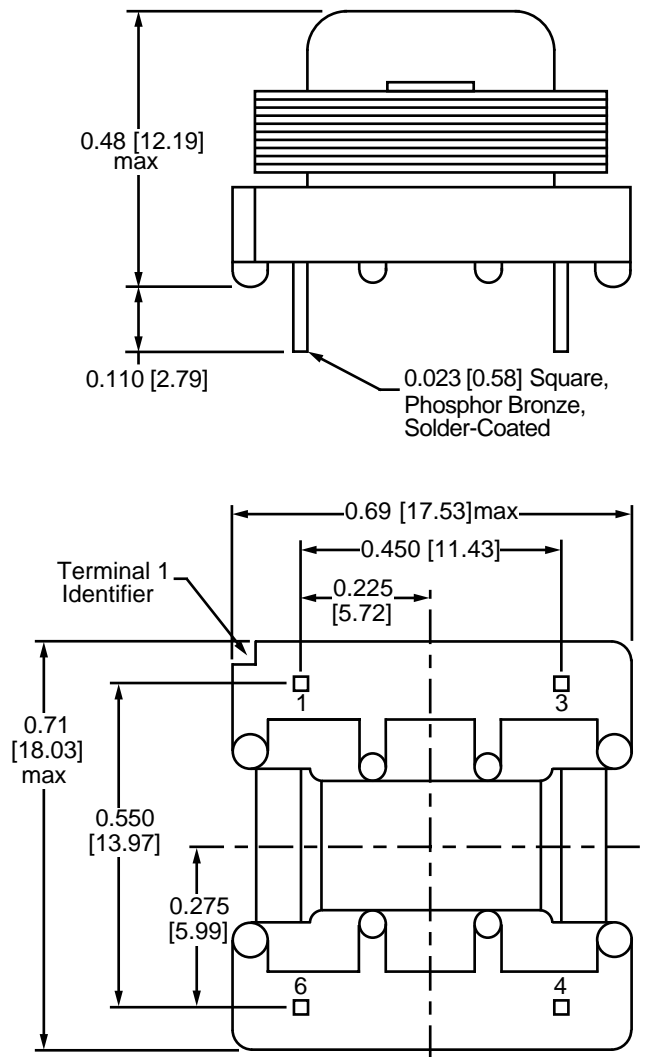
TYPICAL SPICE TRANSMISSION MODEL



MODEM MAGNETICS V.90 Modem Transformer

MECHANICAL

2791C



Note: Unless otherwise specified, dimensions are nominal and in inches [millimeters].

CORPORATE

Bel Fuse Inc.
198 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