

# HIGH FREQUENCY MAGNETICS

## T1/E1 Surface Mount Transformer

TM01102

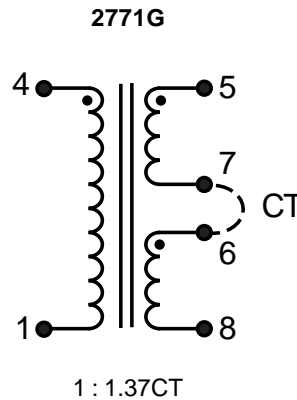
- Operates as a pulse transformer at the T1 rate of 1.544 Mb/s and the E1 rate of 2.048 Mb/s
- Provides voltage transformation and impedance matching for line-interface applications
- All windings are hardened to handle a 6A surge for 1 second
- Recommended drop-in replacement for non-hardened applications is 2779C
- Operating Temperature Range: -40°C to +85°C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: Standard Printed Wiring Board assembly techniques, total-immersion cleaning
- Reliability testing: Shock, vibration, temperature cycling, temperature - humidity - bias

### ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±2%	Inductance <sup>2</sup> mH min	Leakage Inductance <sup>3</sup> µH max	DCR Ω max		Interwinding Capacitance pF typ	Minimum Interwinding Breakdown Voltage Vrms
	(4-1) : (5-8) <sup>1</sup>	(4-1)	(4-1)	(4-1)	(5-8) <sup>1</sup>	(4-1) : (5-8) <sup>1</sup>	
2771G	1 : 1.37CT	0.7	1.2 <sup>3</sup>	0.35	0.45	45	850

1. With 6 and 7 connected.
2. 10 kHz, 0.1 Vac
3. 100 kHz, 0.1 Vac

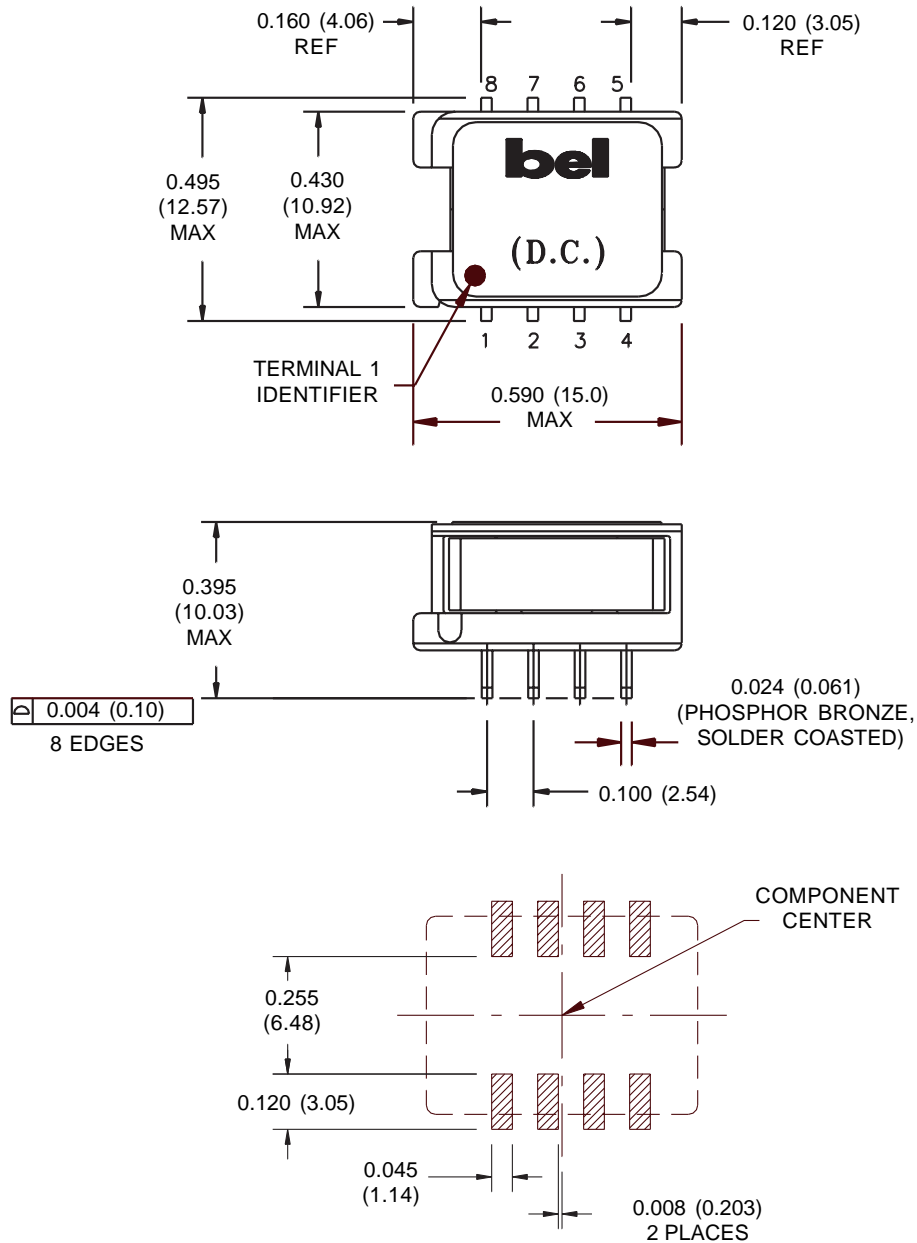
### SCHEMATIC



TM01102

### MECHANICAL

2771G



NOTE: Unless otherwise specified, dimensions are nominal and in inches (millimeters).

©2001 Bel Fuse Inc. Specifications subject to change without notice. 02.01

#### 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 F23, Preston  
Lancashire, PR1 8UD, U.K.  
Tel 44-1772-556601  
Fax 44-1772-888366  
www.belfuse.com