

# HIGH FREQUENCY MAGNETICS

## T1/E1 Surface Mount Shielded Hardened Transformers

TM00141

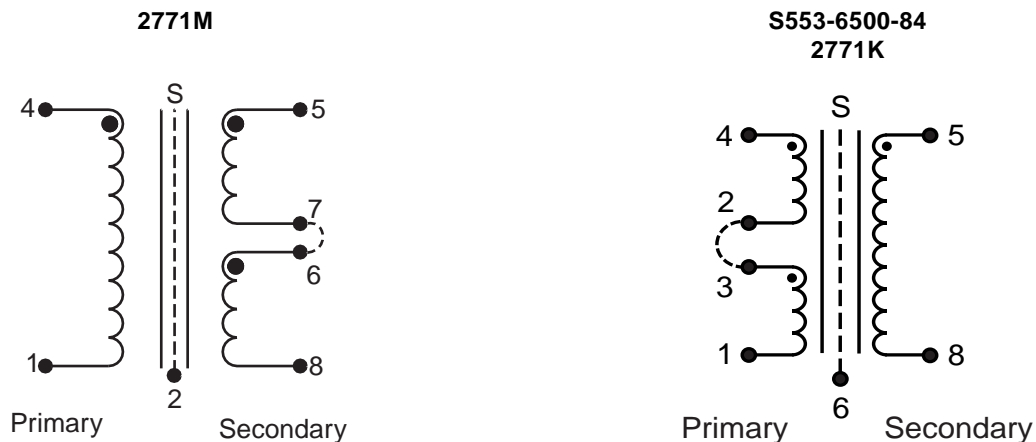
- Operates at the rate of 1.544 Mb/s and the E1 rate of 2.048 Mb/s
- Interwinding Electrostatic Shield provides low capacitance and high EMI suppression
- 2771K and S553-6500-84: Winding (4-1) is hardened to handle a 6A surge for 1 second
- 2771M: All windings are hardened to handle a 6A surge for 1 second
- Minimum Interwinding Breakdown Voltage of 1500 Vrms
- 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

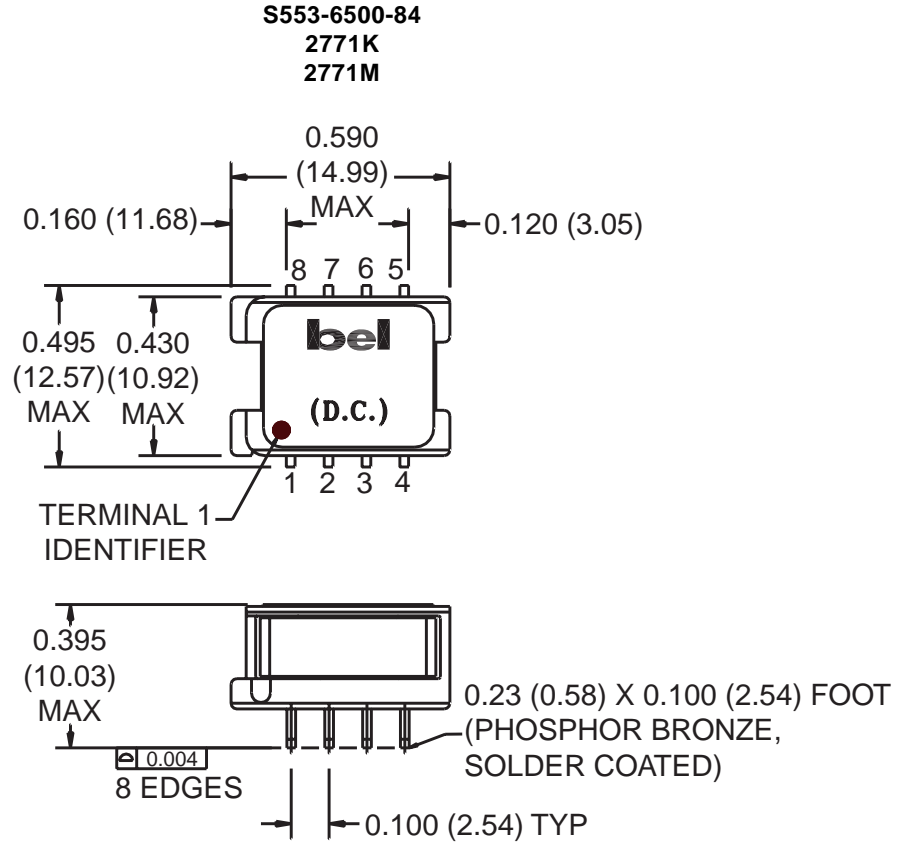
Part Number	Turns Ratio ± 2%	Primary Inductance <sup>1</sup> mH min	Leakage Inductance <sup>2</sup> µH max	DCR Ω max		Interwinding Capacitance <sup>3</sup> pF max
	Pri : Sec			Pri	Sec <sup>3</sup>	
2771K	1 CT : 2	2.75	2.8	0.70	2.50	10
2771M	1 : 1.37 CT	1.10	0.65	0.45	0.65	5
S553-6500-84	1 CT : 1	2.75	2.8	0.70	1.25	10

- measured at 10 kHz, 0.1 Vac
- measured at 100 kHz, 0.1 Vac
- with shield grounded

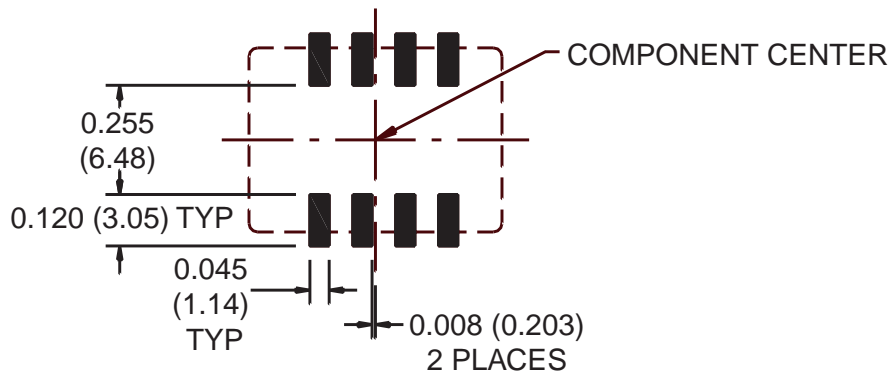
### SCHEMATICS



#### MECHANICAL



#### RECOMMENDED PCB PATTERN



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