

# HIGH FREQUENCY MAGNETICS

## T1/E1 Through Hole Shielded Transformers

TM00114

- Operate at the T1 rate of 1.544 Mb/s and the E1 rate of 2.084 Mb/s
- Interwinding Electrostatic Shield provides low capacitance and high EMI suppression
- There is an internal connection to Terminal 8; do not use
- Minimum interwinding breakdown voltage of 2200 Vdc
- 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

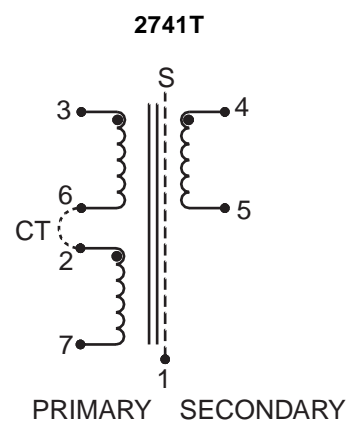
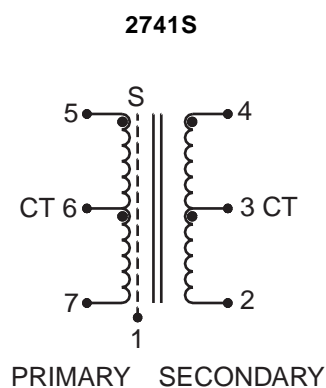
### ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ± 2%	Primary Inductance <sup>1</sup> mH Min	DCR Ω max		Leakage Inductance <sup>2</sup> μH max	Interwinding Capacitance <sup>4</sup> pF max	Inductance Unbalance <sup>5</sup> of CT windings	
	Pri : Sec		Pri	Sec			Winding	% max
2741S	1 CT : 2 CT	3.15	2.3	5.8	6.8	7.5	Pri & Sec	0.2
2741T	1 CT : 1.375 <sup>3</sup>	0.92 <sup>3</sup>	1.1 <sup>3</sup>	1.7	1.6 <sup>3</sup>	8 <sup>3</sup>	Pri	0.1

1. measured at 10 kHz, 0.1 Vac  
2. measured at 100 kHz, 0.1 Vac  
3. connect 2 to 6

4. connect 1 to ground  
5. measured at 20 kHz

### SCHEMATICS

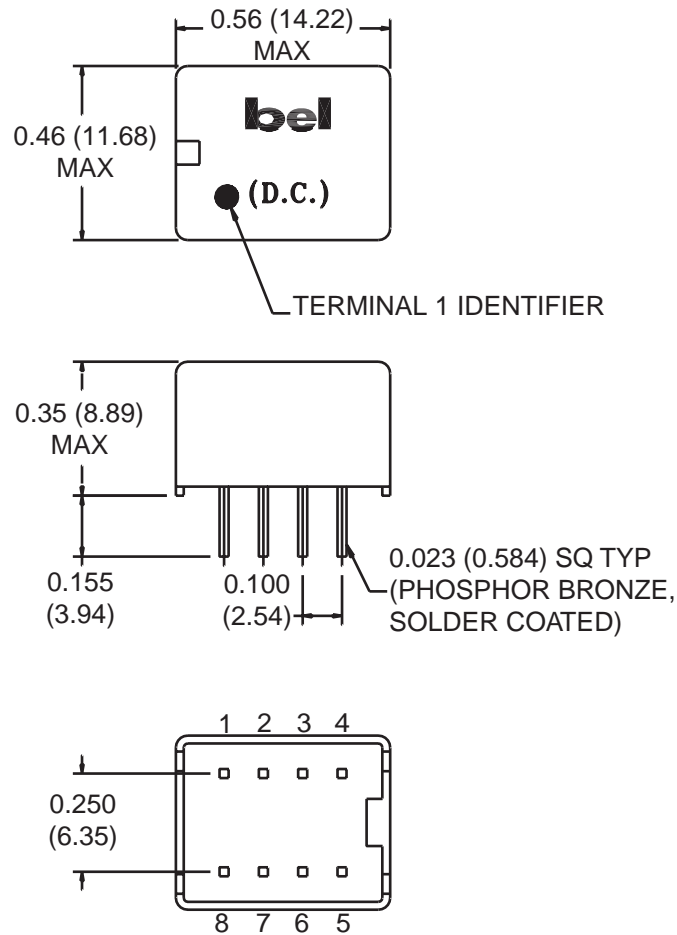


## HIGH FREQUENCY MAGNETICS

### T1/E1 Through Hole Shielded Transformers

#### MECHANICAL

**2741S**  
**2741T**



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