

# HIGH FREQUENCY MAGNETICS

## T1/E1 Through Hole Shielded Transformers

TM00123

- Designed for DS1, DS1C, and CEPT applications
- Electrostatic shield provides improved longitudinal signal suppression and EMI reduction
- Maximum inductance unbalance of center-tapped windings is 0.1%
- 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

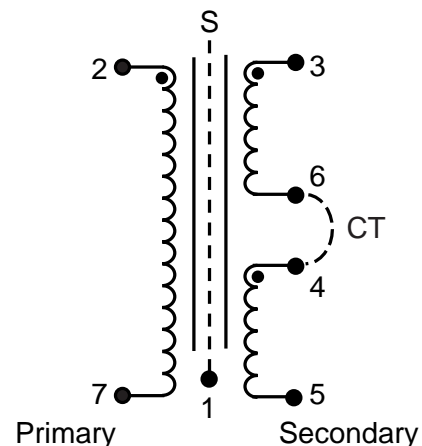
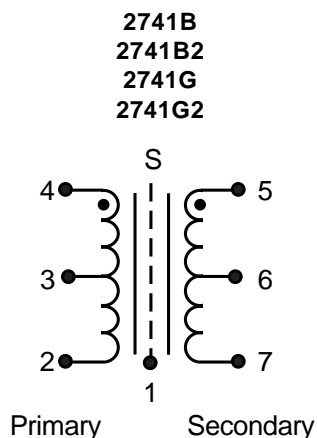
### ELECTRICAL SPECIFICATIONS at 25° C

Part Number <sup>1</sup>	Turns Ratio ± 2%	Primary Inductance <sup>2</sup> mH min	Leakage Inductance μH max	DCR Ω max		Interwinding Capacitance <sup>3</sup> pF max	Minimum Interwinding Breakdown Voltage Vrms	Non-Shielded Version
	Pri : Sec			Pri	Sec			
2741B	1CT : 2CT	4.5	4.5	3.7	7.2	10	1000	2745AF2
2741B2	1CT : 2CT	4.5	4.5	3.7	7.2	10	1000	2745AF2
2741G	1CT : 2CT	3.15	6.5	1.9	4.4	5 <sup>4</sup>	850	2745AF2
2741G2	1CT : 2CT	3.15	6.5	1.9	4.4	5 <sup>4</sup>	850	2745AF2
2741C	1 : 1.36CT	0.92	1.1	0.75	1.05	10	1000	2745CA2
2741C2	1 : 1.36CT	0.92	1.1	0.75	1.05	10	1000	2745CA2
2741H	1 : 1.37CT	0.92	2.5	0.83	1.43	5 <sup>4</sup>	850	2745CA2
2741H2	1 : 1.37CT	0.92	2.5	0.83	1.43	5 <sup>4</sup>	850	2745CA2

1. A "2" suffix indicates short terminals (see mechanical section)
2. measured at 10 kHz, 0.1 Vac
3. with terminal 1 grounded
4. There is an internal connection to terminal 8; do not use

2741C  
2741C2  
2741H  
2741H2

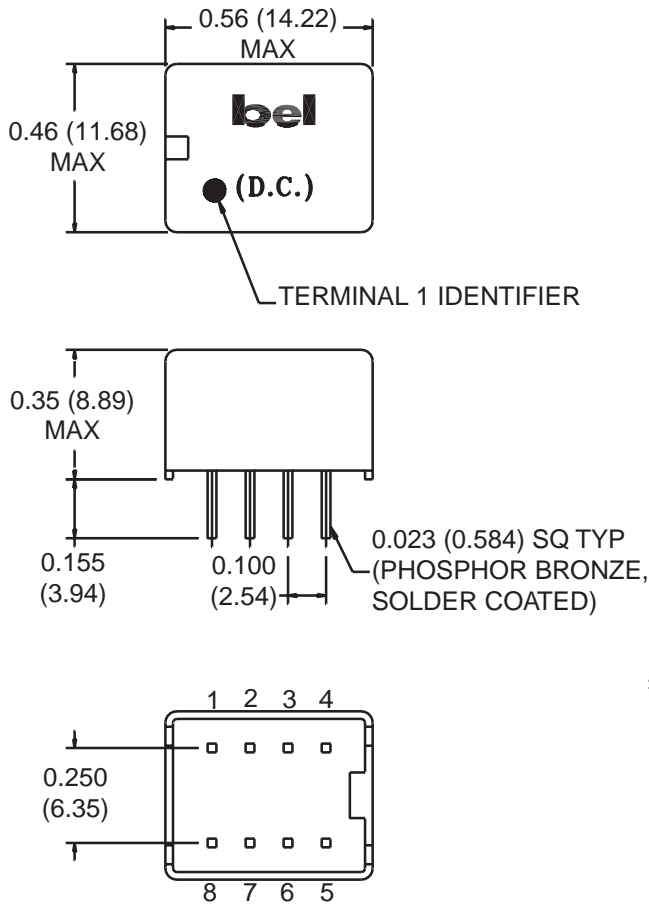
### SCHEMATICS



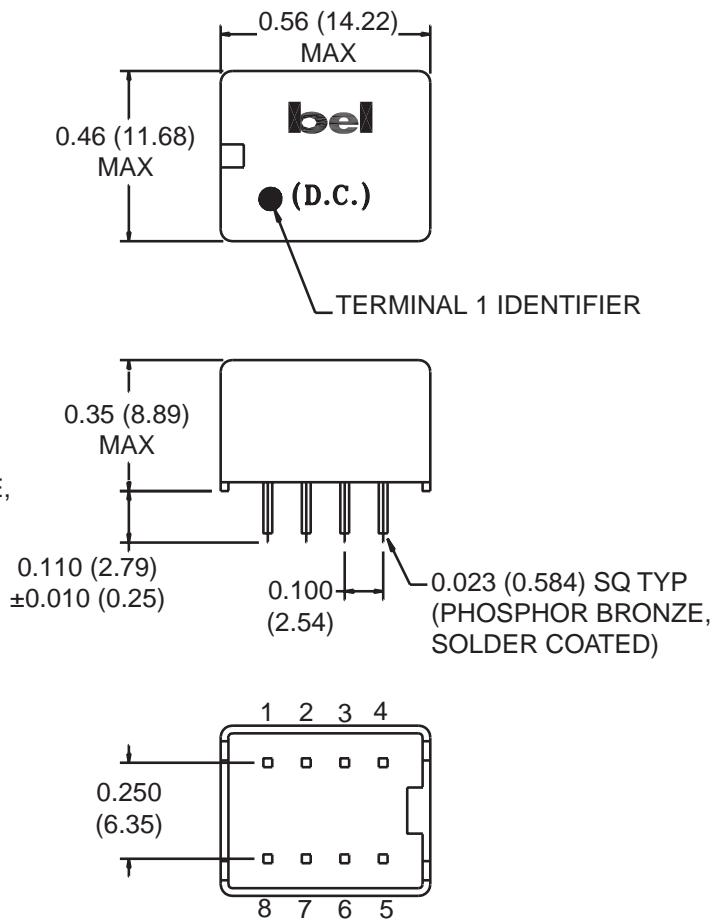
TM00123

#### MECHANICAL

2741B  
2741C  
2741G  
2741H



2741B2  
2741C2  
2741G2  
2741H2



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

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#### 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