

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 ¹ | Turns Ratio ± 2% | Primary Inductance ² mH min | Leakage Inductance μH max | DCR Ω max | | Interwinding Capacitance ³ 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 ⁴ | 850 | 2745AF2 |
| 2741G2 | 1CT : 2CT | 3.15 | 6.5 | 1.9 | 4.4 | 5 ⁴ | 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 ⁴ | 850 | 2745CA2 |
| 2741H2 | 1 : 1.37CT | 0.92 | 2.5 | 0.83 | 1.43 | 5 ⁴ | 850 | 2745CA2 |

1. A "2" suffix indicates short terminals (see mechanical section)

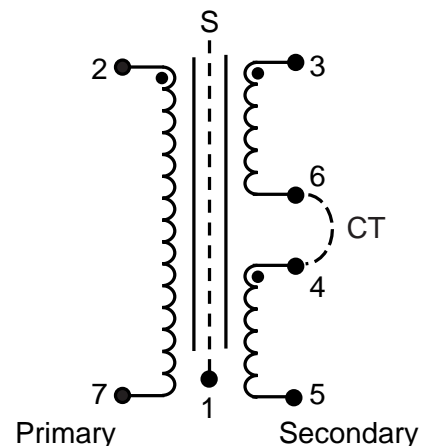
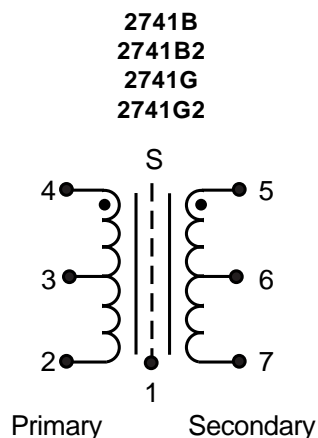
2. measured at 10 kHz, 0.1 Vac

3. with terminal 1 grounded

4. There is an internal connection to terminal 8; do not use

2741C
2741C2
2741H
2741H2

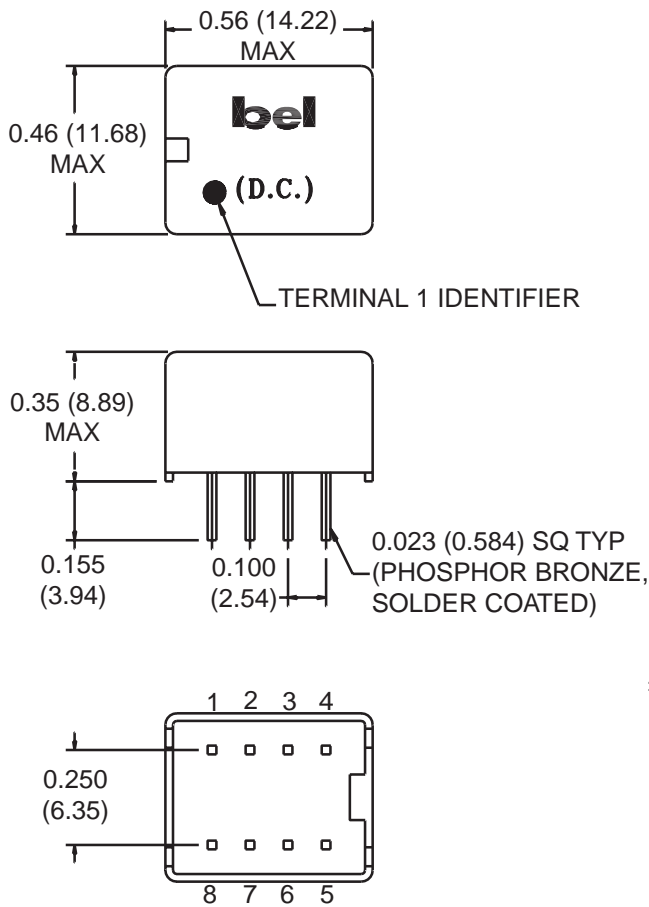
SCHEMATICS



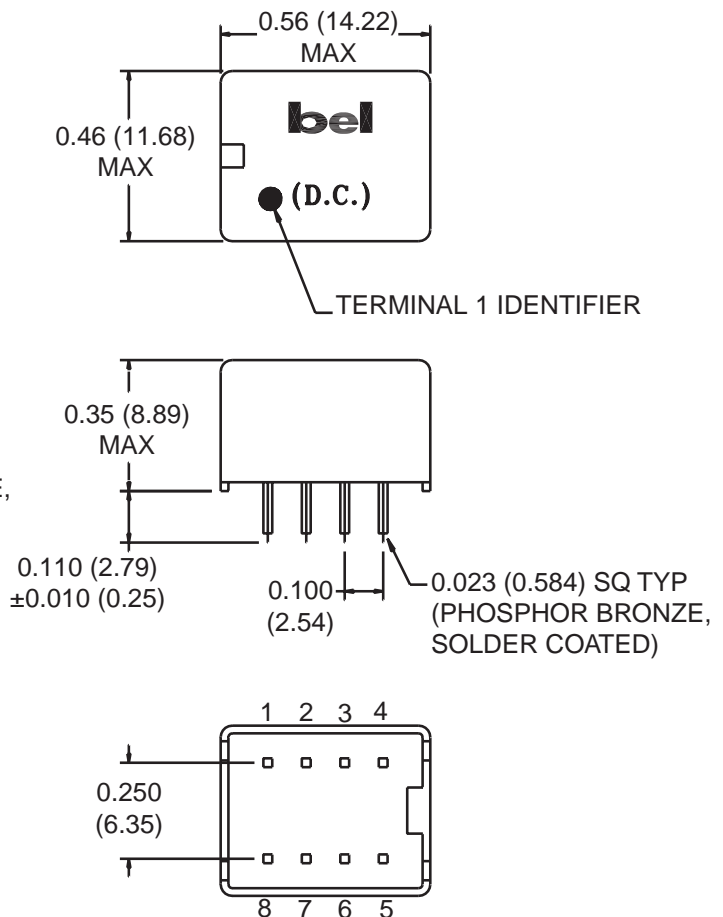
TM00123

MECHANICAL

2741B
2741C
2741G
2741H



2741B2
2741C2
2741G2
2741H2



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

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