

HIGH FREQUENCY MAGNETICS

T3/E3/STS-1 Through Hole Transformer

TM00147

- Operates at pulse repetition rates of 30 Mb/s to 60 Mb/s (includes both the DS3 and the STS-1 rate)
- Has three separate windings which can be configured for both 1:1 and 1:4 impedance ratios
- 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

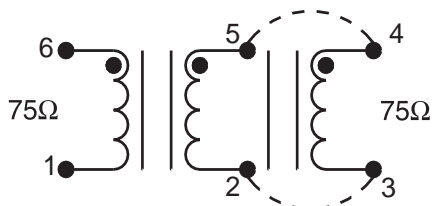
ELECTRICAL SPECIFICATIONS AT 25° C

| Part Number | Turns Ratio ± 2% | Inductance ² μH Min | DCR Ω max | Leakage Inductance ¹ μH max | Interwinding Capacitance pF min | For 75Ω:75Ω Configuration | | Minimum Interwinding Breakdown Voltage Vrms |
|-------------|---------------------|-----------------------------------|-------------------------|--|---------------------------------------|--------------------------------|--|---|
| | (1-6):(2-5):(3-4) | (6-1) | (1-6) (2-5) (3-4) | (3-5) | | Typical Bandwidth (3 dB) | Typical Pulse Rise Time (10%-90%) | |
| 2745AM2 | 1:1:1 | 65 | 0.2 | 0.3 | 15 | 40 kHz to 260 MHz | 1.4 ns | 1500 |

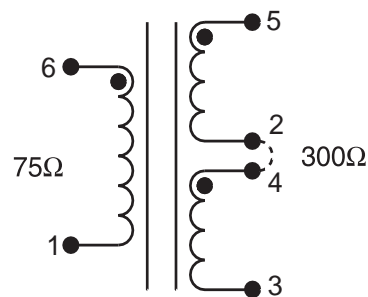
- measured at 100 kHz, 0.01 Vac, connect 2 to 4
- measured at 10 kHz, 0.1 Vac

SCHEMATIC

2745AM2



TYPICAL CONNECTION
75Ω : 75Ω



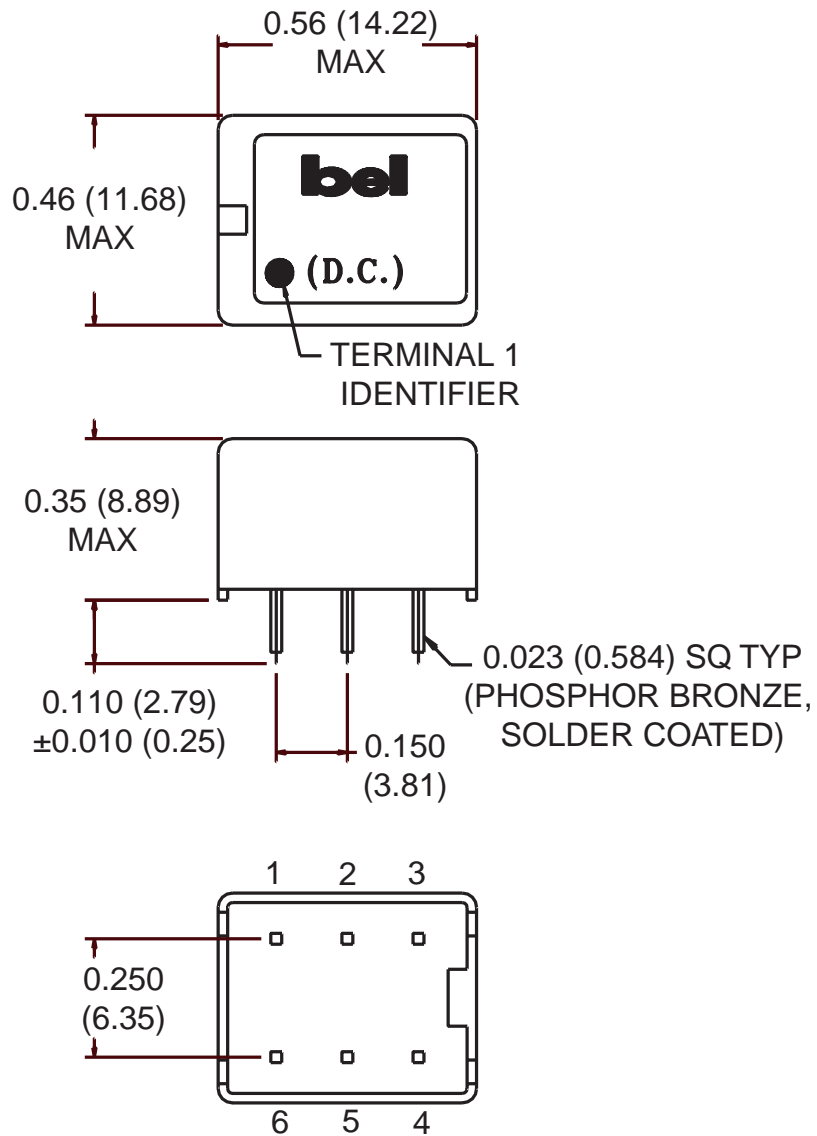
TYPICAL CONNECTION
75Ω : 300Ω

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MECHANICAL

2745AM2



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

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