

## AE TECHRON®

2507 Warren Street, Elkhart, IN 46516 USA | 574.295.9495 | www.AETechron.com

### For Testing to these Specifications:

- AIRBUS
- Chrysler CS-11809 (2009)
- DaimlerChrysler DC-10615
- DO 160 Section 16
- DO 160 Section 18
- Ford EMC-CS-2009.1
- GLloyd VI-7-2
- ISO 11452-10
- EMC-CS-2010JLR V1.1 (2011-01)
- MIL STD 461 D CS 101
- MIL STD 461 D CS 109
- MIL STD 461 E CS 101
- MIL STD 461 E CS 109
- MIL STD 461 F CS 101
- MIL STD 461 F CS 109
- MIL-STD-704
- Mitsubishi ES-X82115
- SAE J1113-2
- Tata TST/TS/WI/257

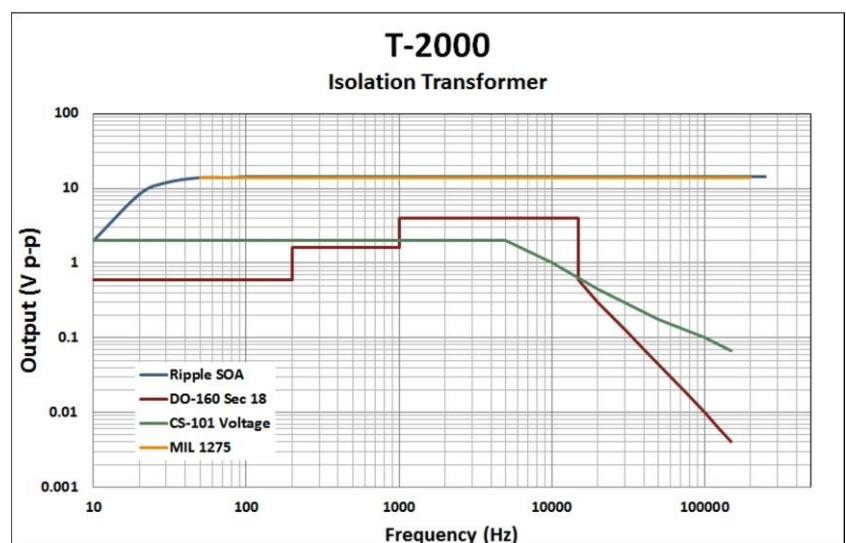
The AE Techron **T2000 Audio Bandwidth Transformer** was designed to meet or exceed the LF conducted susceptibility test requirements of DO 160 Section 18. The T2000 is used to apply the required test signals to the lines under test for ripple voltage tests and continuous or transient conducted immunity tests.



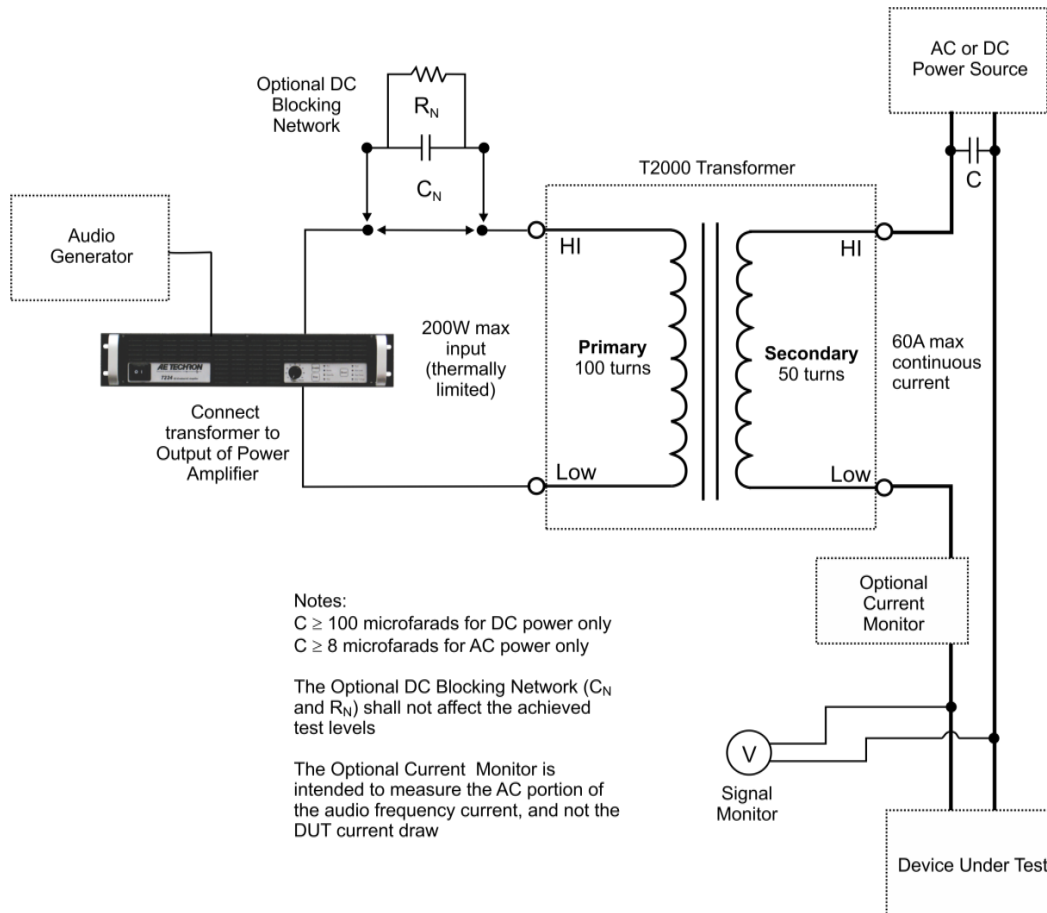
### T2000 TRANSFORMER SPECIFICATION SHEET

#### Features

- Frequency response – 10 Hz to 250 kHz
- Turns ratio – 2:1 step down
- Audio power – 200W
- Meets the LF Conducted Susceptibility test requirements of DO 160 Section 18
- Circuit breaker protected from over-current on secondary
- Durable steel and high-density polyethylene case for impact resistance



T2000 Maximum SOA (Safe Operating Area)



### Sample Application – DO-160 Section 18 Test Setup (for AC and DC power lines, differential mode)

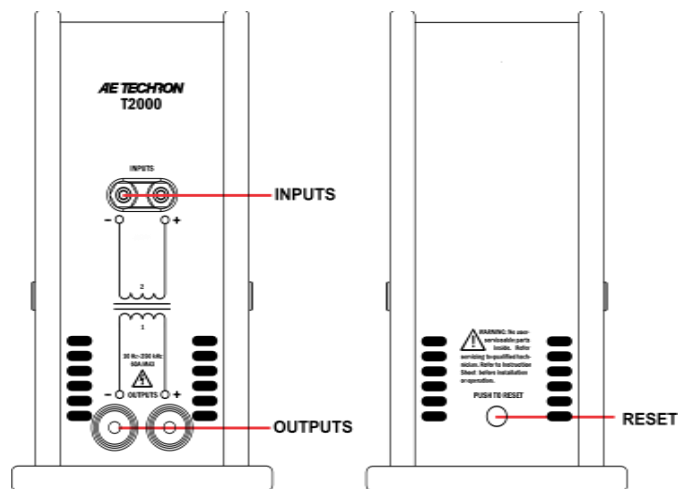
It may also be used as 2-to-1 step-down transformer. The secondary can support up to  $60 A_{RMS}$ .

The T2000 transformer supports up to 200W and is able to pass up to 60A on the secondary. The turns ratio provides a two-to-one step down.

The T2000 provides convenient input connectors via binding posts. Standard 0.75-inch spacing of binding posts allows use of standard plugs. Output is via Multi Contact 125A plugs.

A thermal breaker protects the unit against over-current conditions on the primary. A 60A breaker protects the unit against over-current conditions on the secondary. A rugged, impact-resistant case and robust design protects the transformer from accidental damage.

The T2000 transformer is for use by experienced staff.



### T2000 Controls and Connectors

## Specifications

### Transformer DC Resistance,

#### Primary:

0.9 ohms

#### Secondary:

0.03 ohms

### Frequency Response:

10 Hz to 250 kHz

### Audio Power:

200W

### Dielectric Test:

1500 VDC primary to secondary

### Secondary Saturation:

60A AC or DC maximum

### Turns Ratio:

Two-to-one step down

### Secondary Inductance:

Approximately 0.6 mH (unloaded)

### Protection:

Input power-protected via thermal breaker; secondary winding protected via 60A breaker

## Controls and Connectors

### Input Terminals:

4-way binding posts

### Output Terminals:

Multi Contact 125A plugs

### Circuit Breaker:

Secondary winding limited to 60A via circuit breaker; push to reset

## Physical Characteristics

### Case:

Steel interior shell with a durable external shell made from high-density polyethylene for impact resistance.

### Recommended Ambient Temperature:

25°C (77°F)

### Cooling:

Natural air convection

### Weight:

15 lbs. (6.8 kg)

### Dimensions (WxDxH):

5.25 in. x 10.375 in. x 9.75 in. (13.3 cm x 26.4 cm x 24.8. cm)

*AE Techron Sales Representative*