

MODEL NUMBER:  
**AIF-100A**

## Audio isolation transformer



### DESCRIPTION

The EMC Shops AIF-100A Audio Isolation Transformer 30 Hz- 250 kHz is capable of handing up to 200 W of audio power into its primary over the frequency range 30 Hz to 250 kHz. The turns ratio provides a two-to-one step down to the special secondary winding. The secondary will handle up to 100 A of AC or DC without saturating the transformer.

Another secondary winding is connected to a pair of binding posts suitable for connecting to AC voltmeter as directed by the applicable EMI specifications. This winding serves to isolate the voltmeter from power ground. Neither the primary nor the secondary windings are connected to the end bells of the core. The transformer may be used as a 4 Ω primary and 1 Ω secondary or 2.4 Ω primary and 0.6 Ω secondary or 2 Ω primary and 0.5 Ω secondary.

### SPECIFICATIONS

|                      |   |
|----------------------|---|
| Primary              | Less than 5 ohms  |
| Secondary            | ¼ the primary impedance   |
| Frequency response   | 30 Hz to 250 kHz (less than 8 dB at 30 Hz and less than 5 dB at 250 kHz when primary is loaded with 2 ohms and secondary is loaded with 0.5 ohms) |
| Audio power          | 200 W   |
| Dielectric test      | 600 VDC primary to secondary and each winding to end bells  |
| Secondary saturation | 100 A, AC or DC max.  |
| Turns ratio          | 2-to-1 step down  |
| Secondary inductance | Approximately 0.6 mH (unloaded)   |
| Weight               | 34 pounds   |
| Size                 | 4.50" wide x 5.25" high x 8.50" deep plus terminals (11.43 cm x 13.33 cm x 21.59 cm)  |
| Terminals            | Primary ¾" spaced binding posts<br>Secondary ¼" - 20 threaded studs spaced 1" apart<br>Voltmeter winding ¾" spaced binding posts                  |

### INSERTION LOSS MEASURED WITH 2 OHMS ON PRIMARY AND 0.5 OHMS ON SECONDARY

