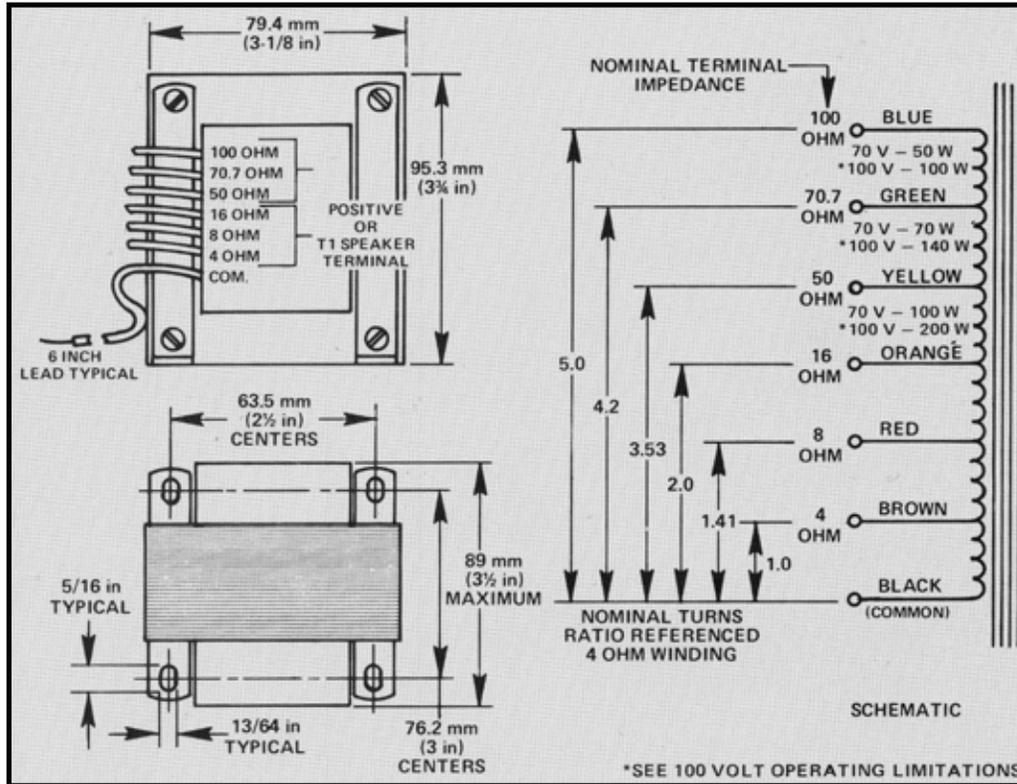


AT100 100 Watt Autotransformer



General Description:

The Electro-Voice® AT100 is a wide-range audio autotransformer designed for use in high-quality distributed sound systems or for other impedance matching purposes where line losses need to be minimized. Where DC isolation between windings is not required, the autotransformer approach provides lower insertion loss than the typical dual winding transformer due to tighter magnetic coupling and lower coil resistance.

Although nominally rated at 100 watts, the AT100 is capable of operation at peak levels with low distortion far in excess of 100 watts due to its massive core and hefty construction.

Proper hook-up of the autotransformer can be made by noting the schematic diagram above. As an example of using the AT100 as a step-down transformer, a 100 watt, 8 ohm speaker may be matched to a 70.7 volt line by connecting the yellow and black wires to the line and the speaker to the red and black wires.

The autotransformer may also be used as a step-up transformer. As an example, an amplifier capable of delivering a maximum power of 100 watts into 4 ohms, but not having a 70.7 volts output tap, may be connected to the brown and black leads.

Technical Specifications:

Usable Freq. Response:	20 Hz - 20 kHz
Long-Term Average Power Capacity:	100 Watts
Environmental Treatment:	Vacuum Impregnated with Transformer Varnish
Size and Mounting Centers:	See Diagram Above
Shipping Weight:	6.0 lbs (2.7 kg)

Full power output will then produce 70.7 volts across the yellow and black leads. Other AT100's or line matching transformers may then be used to match this line to the various speakers (loads).

100 Volt Operating Limitations

For 100 volt operation, the 50 and 70.7 ohm terminals correspond to 200 and 141 watts respectively. Amplifiers with these 100 volt power outputs may be used, *as long as the long-term average power delivered by the amplifier does not exceed the 100 watt rating of the AT100*. Because of the peak-to-average ratio of typical program material, this condition is automatically met if clipping of program peaks is generally avoided.

Electro-Voice®

12000 Portland Avenue South, Burnsville, MN 55337
Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

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U.S.A. and Canada only. For customer orders, contact Customer Service at:
800/392-3497 Fax: 800/955-6831

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at:
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Specifications subject to change without notice.