

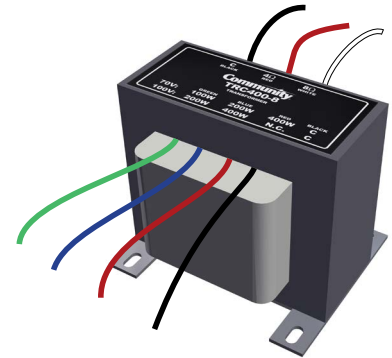
# TRC400-8 400 WATT 70V/100V LINE TRANSFORMER



## TECHNICAL SPECIFICATIONS

### SYSTEM

<b>Type:</b>	Line transformer for constant voltage audio distribution lines
<b>Inputs:</b>	70V, 100V
<b>Maximum Inputs:</b>	70V RMS / 100V peak 100V RMS / 140V peak
<b>Taps:</b>	at 70V: 100W, 200W, 400W at 100V: 200W, 400W
<b>Load:</b>	4 or 8 ohm
<b>Frequency Response:</b>	50 Hz - 16 kHz
<b>Insertion Loss:</b>	1.1 dB
<b>Input Impedance:</b>	100V 25 ohms @ 400W 50 ohms @ 200W 70V 12.5 ohms @ 400W 25 ohms @ 200W 50 ohms @ 100W



### PHYSICAL

<b>Input / Output Connections:</b>	8" (203mm) #18 AWG color coded wires with stripped ends
<b>Construction:</b>	Open frame
<b>Mounting Provisions:</b>	(4) mounting tabs with slotted holes Hole dimensions: 0.44" x 0.22" (11 x 6 mm)
<b>Dimensions – H x W x D:</b>	4.3" x 5.01" x 3.75" (109 x 127 x 95 mm)
<b>Unit Weight:</b>	8.8 lbs (4.0 kg)
<b>Shipping Weight:</b>	9.3 lbs (4.2 kg)

### APPLICATIONS

- 70V and 100V Loudspeaker Distribution Systems
- Can be used with R SERIES (R.35, R.5, R1, R2) and W SERIES systems
- Use for high power distributed announcement systems

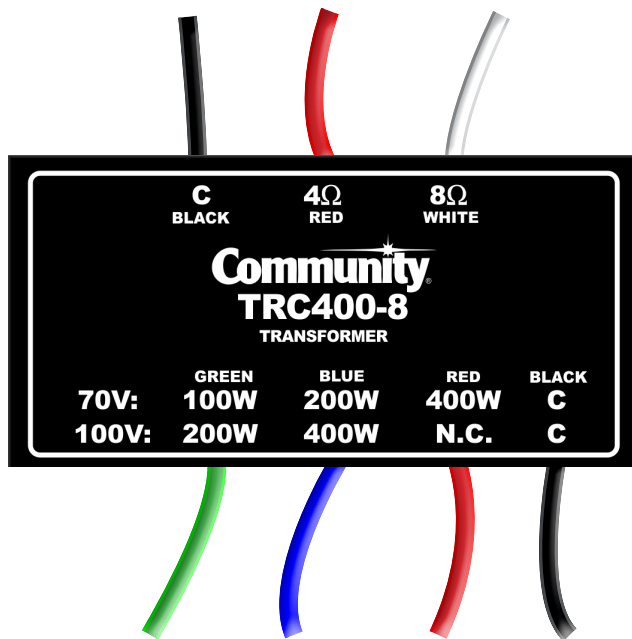
### FEATURES

- Can be used to step up or step down voltage
- Low insertion loss
- Excellent low frequency performance at full power

### DESCRIPTION

The TRC400-8 is a 400 watt line transformer used to step down the voltage and impedance of "constant voltage" audio distribution lines to the voltage level and impedance required by loudspeakers. It can also be used to step up the voltage of an amplifier to the voltage needed for a distribution line. The TRC400-8 has three wattage taps. The taps allow individual loudspeakers to be adjusted to operate at the same or different power levels compared to other loudspeakers in a system on the distribution line. The input taps on the TRC400-8 allow it to be used with 70V and 100V distribution systems.

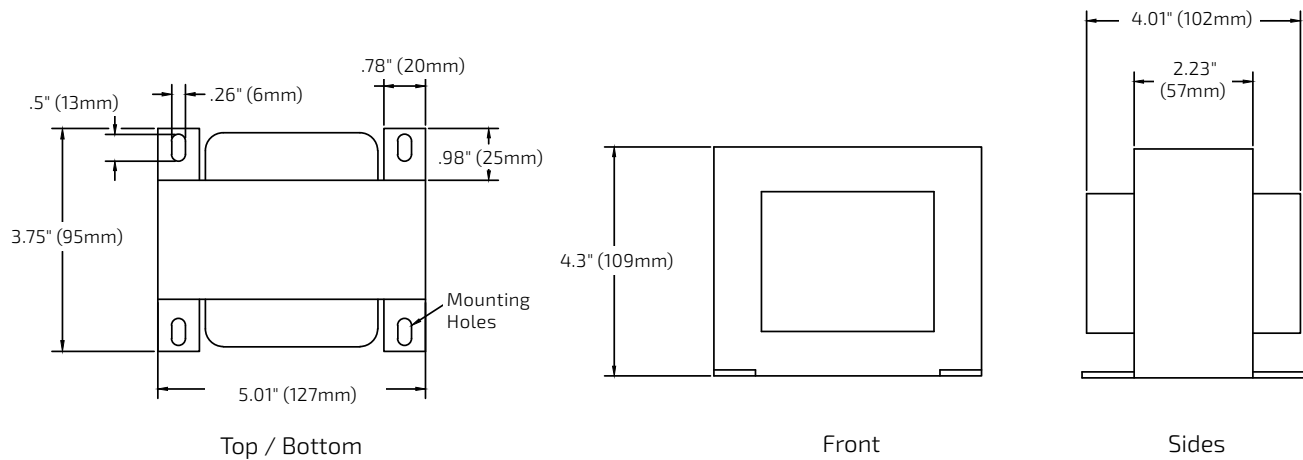
The output taps of the TRC400-8 are designed to drive either 8 ohm or 4 ohm loudspeakers. The TRC400-8 is manufactured from high quality materials. Its high permeability iron core provides high power handling at low frequencies. The TRC400-8 has four mounting tabs that allow it to be bolted into back-boxes or other enclosures, to loudspeaker enclosures, or to loudspeaker mounting hardware. The stripped wire input and output leads can be easily connected to loudspeaker terminals and the distribution cable in a variety of ways including terminal strips, soldering, and wire-nuts.



Input / Output Label with Wire Colors

# TRC400-8 400 WATT 70V/100V LINE TRANSFORMER

## DIMENSIONS



## ARCHITECTURAL SPECIFICATIONS

The transformer shall be an audio line transformer for step-down or step-up use with high voltage, audio distribution lines. For step-down use, it shall have 3 inputs of 400W, 200W and 100W for use with 70V lines or two inputs of 400W and 200W for use with 100V lines and shall be compatible for output loads of either 4 ohms or 8 ohms. The inputs and outputs may reversed for step-up use. The insertion loss for any combination of input to output shall be a maximum of 1.1 dB. Frequency response shall be from 50 Hz to 16 kHz at 400 watts. All taps shall have 8 inch (203mm) long, 18 gauge wires for connections. It shall be constructed with a high permeability iron core and copper windings. Construction shall be of the open frame type with four 0.98 in. (25mm) x 0.78 in. (20mm) mounting tabs. The transformer shall be 4.3 in. (109mm) H x 5.01 in. (127mm) W x 3.75 in. (95mm) D and weigh 8.8 lb (4.0 kg).

**CAUTION:** Installation of loudspeakers should only be performed by trained and qualified personnel.  
It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.