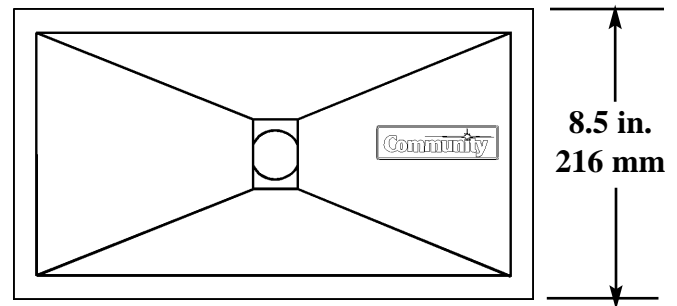


**SPECIFICATIONS (See notes 1 - 3)**

- Horn Type:** Exponential, High frequency horn
- Operating Range:** 1 kHz - 20 kHz
- Usable LF Limit:** 550 Hz
- Flare Rate:** 500 Hz
- Throat Diameter:** 1 in. / 25.4 mm
- Axial Sensitivity 1W/1m (with VHF100 driver):**  
116 dB SPL (1.6 kHz - 16 kHz 1/3 octave bands)
- Maximum Output (with VHF100 driver):**  
129 dB SPL / 136 dB SPL peak
- Nominal -6 dB Beamwidth:**  
Horizontal: 35° (+5° / -4°, 2 kHz - 20 kHz)  
Vertical: 20° (+16° / -10°, 4 kHz - 20 kHz)
- Axial Q:** 57.1 (2 kHz - 20 kHz)
- Axial DI:** 17.6 (2 kHz - 20 kHz)
- Recommended Signal Processing (for VHF100 driver):**  
1.8 kHz crossover point in a system
- Construction:**  
Hand-laminated, reinforced composite, black fiberglass  
Double wall construction using embedded balsa wood
- Required Accessories:**  
Electronic crossover, Equalization
- Optional Accessories:**  
DSC42: Digital crossover / processor  
2BKT: Rear yoke-type mounting bracket  
CPLATE: Adapts 3 bolt driver to 2 bolt PC642 horn
- Bolt Pattern:**  
(2) 5/16 in. / 8 mm holes on 3 in. / 76 mm bolt circle
- Dimensions:**  
Height: 8.5 in. / 216 mm  
Width: 14.5 in. / 368 mm  
Depth: 15.9 in. / 404 mm
- Weight:** 5 lb. / 2.3 kg
- Shipping Weight:** 8 lb. / 3.6 kg

- 1. Sensitivity:** Free field pink noise measurement at 15 ft / 4.6 m at 75% power; extrapolated to 1 meter and an input of 2.83 volts RMS. 0 dB SPL = 20 uPa.
- 2. Watts:** All wattage figures are calculated using the rated nominal impedance.
- 3. EQ:** Specifications are without equalization, normally required for optimum performance.



**APPLICATIONS:**

- High Fidelity Component Systems
- Sports Facilities
- Performing Arts
- Concert Systems
- Houses of Worship

**FEATURES:**

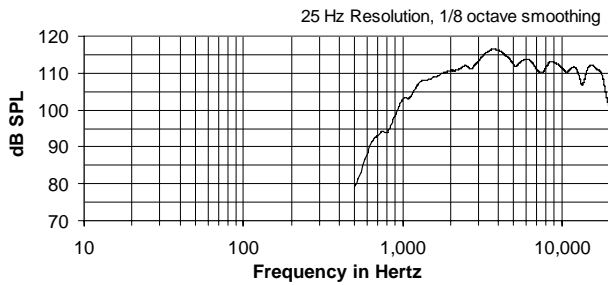
- Precise Horizontal and Vertical Control Maintains Consistent On and Off Axis Frequency Response
- High Q Design Provides Increased Intelligibility Over Distance
- Strong, Light Weight, Non-Resonant, Weather Resistant Fiberglass Construction

**DESCRIPTION**

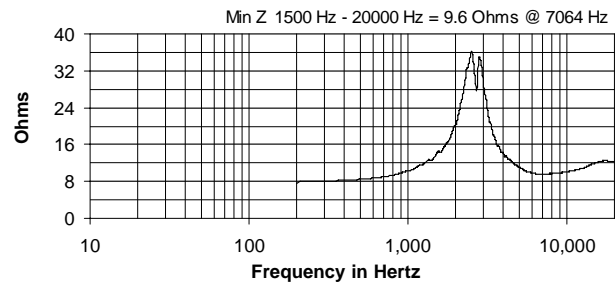
The PC642 horn is designed by Community to function as a high frequency horn in a multi-way component system. Mated with a Community VHF100 1" compression driver it will provide focused, extremely high output sound projection, with predictable performance and exceptional long term durability for professional sound reinforcement systems. Performance data for Community horns is well documented, providing the designer and consultant with highly predictable and consistent coverage patterns for system design.

Each horn is a handcrafted, one-piece, precision waveguide, precision molded in hand-laminated, fiber-reinforced fiberglass. Balsa wood is embedded in the sidewalls for non-diaphragmatic, resonant-free operation. With substantial fiberglass layering and integral throat and driver flange construction, Community horns are built to withstand the torque loads of the heaviest compression drivers. Their inherent strength and rigidity enhances sonic efficiency by preventing sound energy losses through the horn walls or from vibration. Community fiberglass horns are inherently weather-proof under all conditions of use. There is a five year warranty.

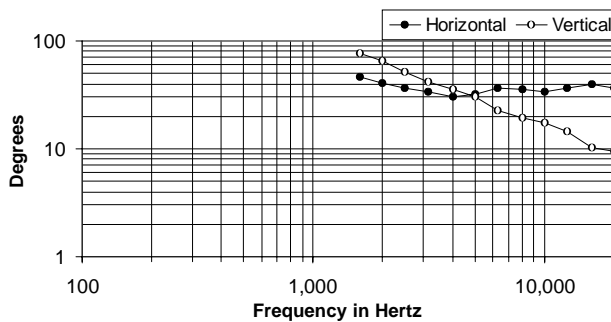
## FREQUENCY RESPONSE



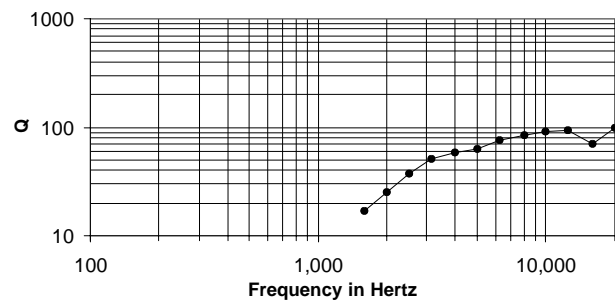
## IMPEDANCE



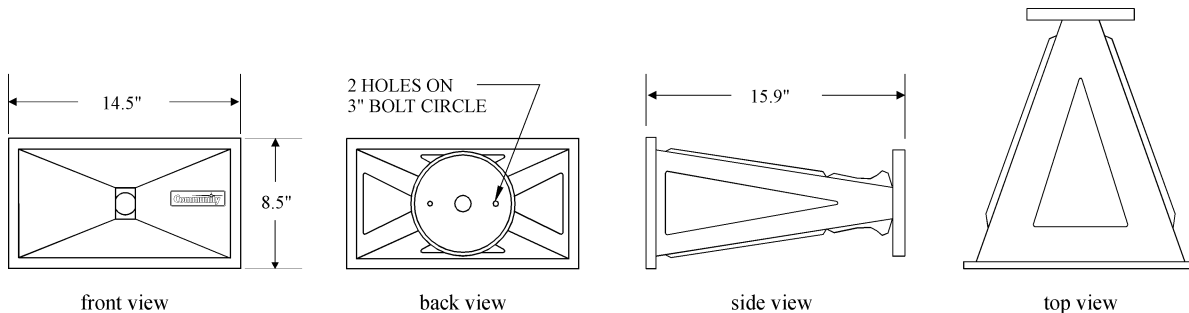
## BEAMWIDTH



## AXIAL Q



## DIMENSIONS



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The horn shall be a 1 inch throat entrance, Pattern Control, high frequency device. It shall be made as one piece using hand-laminated fiberglass, with double wall constructions formed by resin-encapsulated, sandwich core wood. It shall include an integral rear flange for mounting a 1 inch exit compression driver and a flat, front flange to facilitate mounting. The usable operating range shall be from 1 kHz to 20 kHz with nominal -6 dB beamwidths of 35° horizontal, deviating no more than +5° / -4° between 2 kHz and 20 kHz, and 20° vertical, deviating no more than +16° / -10° between 4 kHz and 20 kHz. The horn shall be 8.5 in. (216 mm) H x 14.5 in. (368 mm) W x 15.9 in. (404 mm) D, and weigh 4 lb. (1.8 kg).