

## SPECIFICATIONS (See notes 1 - 3)

**Driver Type:** 2.8 in. / 71 mm exit, high frequency

**Operating Range:** 1 kHz - 12 kHz (with equalization)  
1 kHz - 4 kHz (+/-3.5dB)

### Max Input Ratings:

160W continuous, 400W Program  
36 volts RMS, 80 volts momentary peak  
Recommended Power Amplifier:  
330W to 480W @ 8 Ohms

### Sensitivity 1W/1m:

112 dB SPL (1 kHz - 8 kHz 1/3 octave bands)

### Maximum Output:

134 dB SPL / 141 dB SPL (peak)

**Nominal Impedance:** 8 Ohms

**Min Impedance:** 10 Ohms @ 1.7 kHz

**Compression Ratio:** 4:1

### Lowest / Highest Crossover Frequencies:

1 kHz / 8 kHz

### Optimum Crossover Frequencies:

1 kHz / 6 kHz

### Recommended LF Protection Capacitor: \*

40 mfd non-polar (for 1 Hz crossover)

### Diaphragm:

Diameter: 3.55 in. / 90 mm

Material: Carbon fiber composite

### Voice Coil:

Diameter: 3.55 in. / 90 mm

Material: Copper-clad aluminum edgewound wire on  
Kapton former

### Input Connection:

(2) 3/16 in. wide solder tabs

### Bolt Pattern:

(4) 1/4-20 threaded studs on 5.75 in. / 146 mm bolt circle

### Required Accessories:

Electronic crossover

### Supplied Accessories:

(4) 1/4-20 washer / lockwasher / nut sets

### Recommended Community Horns:

PC394 - 90 x 40 medium format midrange horn

PC364 - 60 x 40 medium format midrange horn

PC342 - 40 x 20 medium format midrange horn

### Dimensions (without mounting studs):

Depth: 3.4 in. / 86 mm  
(4.4 in. / 112 mm with mounting studs)

Diameter: 7 in. / 178 mm

**Weight:** 12.4 lb. / 5.6 kg

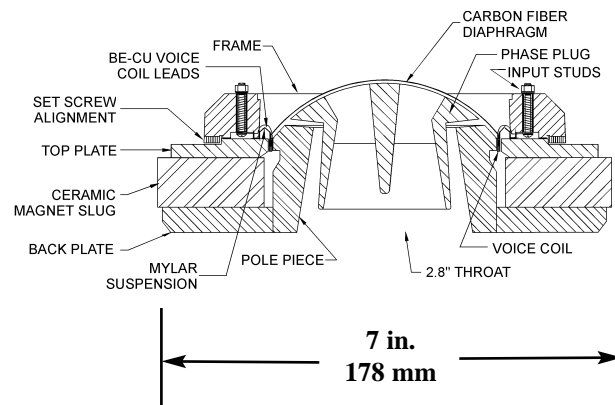
**Shipping Weight:** 14 lb. / 6.4 kg

**1. Sensitivity:** Free field pink noise measurement at 15 ft / 4.6 m at 15% power; extrapolated to 1 meter and an input of 2.83 volts RMS.

**2. Watts:** All wattage figures are calculated using the rated nominal impedance.

**3. Data:** All performance data measured on a PC394 90 x 40 horn.

\* Capacitor is only for protection against DC voltage or catastrophic amplifier failure and not to be used as a crossover.



## APPLICATIONS:

- Multi-way Component High Fidelity Systems
- Two-way Voice Announcement Systems

## FEATURES:

- Carbon Fiber Diaphragm
- 2.8" (71 mm) Throat Exit
- Low Distortion, High Efficiency
- High Power Output

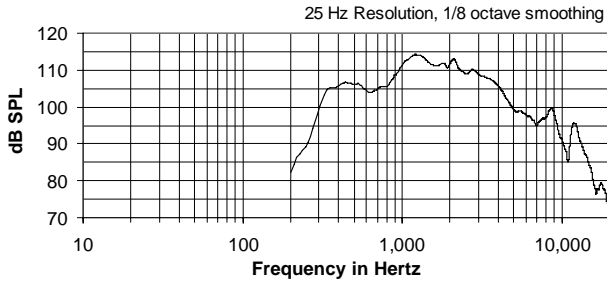
## DESCRIPTION

The EM282 High Frequency Compression Driver is a high output, high sensitivity driver for systems requiring powerful upper midrange and high frequency capabilities. This includes component two, three and four-way full range high fidelity music systems as well as two-way, voice-only high output announcement systems. The EM282 is matched with Community's PC300 Series of fiberglass horns.

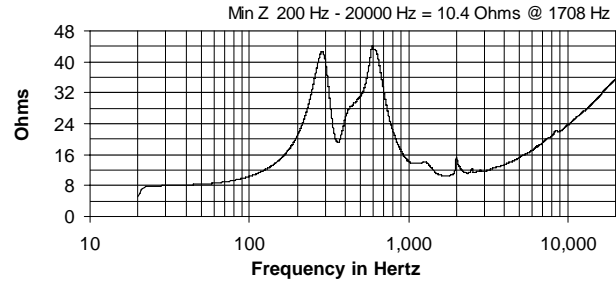
The EM282's diaphragm is made of two different carbon fiber composites combined to form a strong, low mass, high stiffness dome that resists resonant behavior. It exhibits a smooth frequency response throughout its operating range. The EM282 is well matched as the high frequency element in a system which includes M4 midrange drivers including long throw systems in larger sports arenas and stadia.

Community drivers incorporate large area, low compression phase plug loading and large magnet structures for extremely low distortion at high outputs while maintaining high efficiency and low power compression. There is a two year warranty.

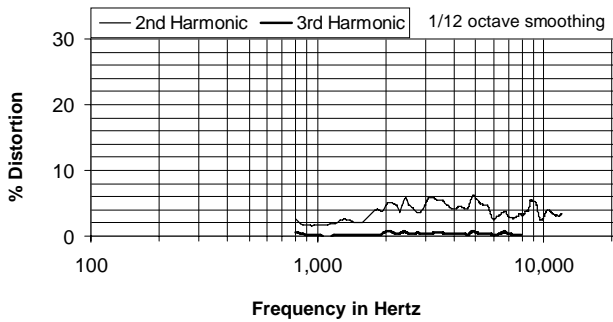
## FREQUENCY RESPONSE



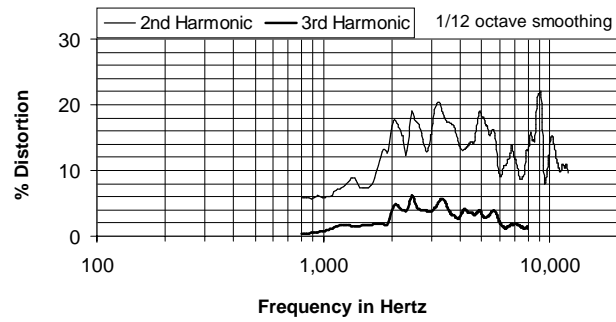
## IMPEDANCE



## HARMONIC DISTORTION (10% POWER)

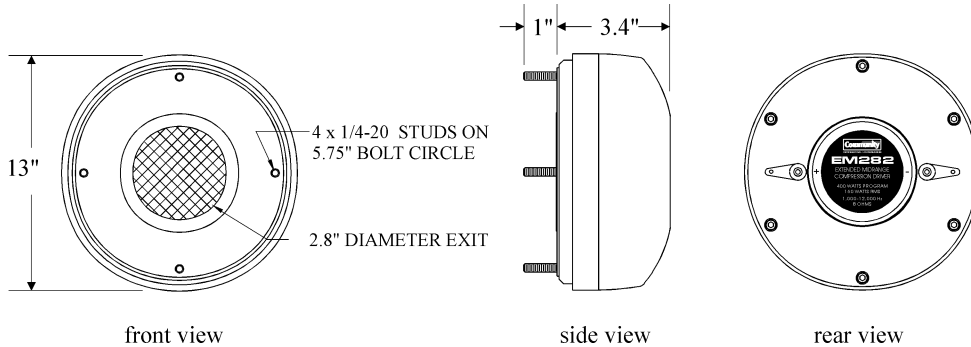


## HARMONIC DISTORTION (100% POWER)



Note: all graphs measured on PC394 horn.

## DIMENSIONS



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The driver shall be a 2.8 inch (71 mm) exit compression type, specifically designed for high frequency response. On a PC394 horn the driver shall have an amplitude response of 1 kHz to 4 kHz dB (+/- 3.5 dB), input capability of 36V RMS, 112 dB sensitivity at 1 meter / 2.83V, and a nominal impedance of 8 Ohms. The driver shall incorporate a large magnet structure, a one-piece 3.55" carbon fiber diaphragm and a copper-clad aluminum edgewound voice coil on a Kapton former immersed in Ferrofluid. The compression ratio shall be 4 to 1. The diaphragm assembly shall be field replaceable. The driver shall be 7 in. (178 mm) diameter, 3.4 in. (86 mm) deep plus 1 in. (25 mm) mounting stud projection, and weigh 12.4 lb. (5.6 kg).