General Product Description

The Electro-Voice[®] DH2010A Is a high-performance compression driver optimized for use as the super-tweeter component in professional two- and three-way sound reinforcement systems. Use above 5,000 Hz is recommended. Exceptional high-frequency performance is realized through a design which includes:

- 1) A specially formed lightweight titanium diaphragm and low-mass voice coil.
- A unique glass-filled polycarbonate, convexdrive, distributed-source phase plug. This advanced design is akin to modern fluidic amplifier circuitry and is Electro-Voice's exclusive Time Path[™] phase equalizer.
- An optimum magnetic motor design, leading to a compact but sensible size and weight.
- Exclusive Resonant Drive[™] high-frequency suspension treatment (patent pending).

Recommended Horns

The following Electro-Voice horns are recommended for use with the DH2010A, HPT42, HPT64, HPT94, HP64M, HP85P.

Architects' and Engineers' Specifications

The loudspeaker shall be of the compression-driver type consisting of a titanium diaphragm joined to an aluminum voice coil on a polyimide form.

The nominal impedance shall be 8 ohms.

The loudspeaker shall exhibit essentially flat power response from 1.5-5.0 kHz with a smoothly rolled-off response from 5 kHz to 20 kHz. The efficiency shall not be less than 25%. The sensitivity, when mounted on an EV HPT42 horn, shall be 113 dB (1 W/1 m) with a 1.5 kHz to 5 kHz pink-noise signal applied.

Specifications: -

The following specifications are in accordance with or exceed the AES Recommended Practice for Specification of Loudspeaker Components Used in Professional Audio and Sound Reinforcement (AES2-1984; ANSI 54.26-1984). See AES Recommended Practice section.

Power Frequency Response:

| 1.5 kHz to 20 kHz (essentially flat | | |
|--|--|--|
| 1.5 kHz to 5 kHz with 6 dB-per-octave rolloff to 20 kHz, rapid | | |
| rolloff beyond) | | |
| Nominal Impedance: | | |
| Minimum Impedance: | | |
| Nominal DC Resistance: | | |
| Long-Term Average Power Capacity on HP Horns, Indicated | | |
| Bands of Pink Noise, 8 Ohm Impedance Assumed, | | |
| 24 Hours, 6-dB Crest Factor: 20 watts (5 kHz-20 kHz) | | |
| 2 Hours, 6-dB Crest Factor: | | |
| Nominal Efficiency, 1,000-5,000-Hz Pink Noise, 8-Ohm | | |
| Impedance Assumed: | | |
| Maximum Long-Term Acoustic Power Output (24 hours): | | |
| | | |
| Recommended Minimum Crossover Frequency: | | |
| Sound Pressure Level at 1 Meter, 1 Watt Input Averaged from | | |
| 500 Hz to 5,000 Hz: ¹ | | |
| 111 dB, HP64 horn | | |
| | | |

112 dB, HP94 horn

DH2010A Very High-Frequency

Reproducers





The louspeakers shall be capable of handling a 20-watt, 5 kHz to 20 kHz pink noise signal with a 10-dB crest factor (200 watts peak) for a period of 24 hours.

The loudspeakers shall have a diameter of 12.2 cm (4.8in.) and a depth of 8.9 cm (3.5 in.). They shall have a 0.95 inch throat opening, with a 1-3/8"-18 thread for mounting. They shall weigh no more than 1.9 kg (4.2 lbs).

The loudspeakers shall be the Electro-Voice® model DH2010A.

| Throat Diameter: | 2.41 cm (0.95 in.) |
|--------------------------|--------------------|
| Voice Coil Diameter: | 3.17 cm (1.25 in.) |
| Voice Coil Construction: | |

Polyimide insulated aluminum wire on a polyimide form.

Diaphragm Construction:

Titanium integral half-roll surround diaphragm

Electrical Connection:

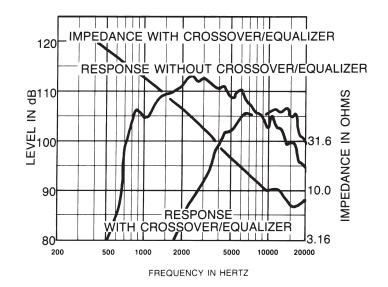
The DH2010A is fitted with a pair of chrome-plated connectors with color-coded ends. Electrical connection is made by pushing down, inserting wire completely through the rectangular slot and releasing pressure. One conductor of #9 AWG stranded, #8 AWG solid, a pair of twisted #15 AWG stranded or a pair of #14 AWG solid conductors will fit. A positive electrical signal applied to the red (+) terminal will displace the diaphragm away from the magnet, thus producing a positive acoustic pressure.

Mechanical Construction:

1- 3/8"-18 x 5/8 long thread allows the DH2010A to be mounted on any HPT super-tweeter horn or the MTA-42 Manifold Technology[™] adapter.

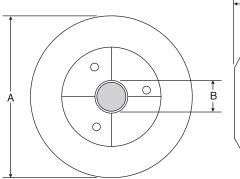
- Shipping Weight: 2 0 kg (4.4 lb)
- ¹ Measured axis in the far field with 1 watt input of band-limited plnk noise from 500-5,000 Hz end calculated to 1 m or equivalent by Inverse square law.

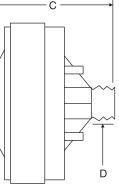
Electro-Voice®



Axial Frequency Response 1 Watt/1 Meter, HPT94 Horn

| Dimensions: (in) | | |
|------------------|------------|--|
| A | 4.80 | |
| В | 0.95 | |
| С | 3.5 | |
| D | 1 3/8 - 18 | |





Dimensions

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For customer orders, contact the Customer Service department at 800/392-3497 Fax: 800/955-6831 For warranty repair or service information, contact the Service Repair department at 800/685-2606 For technical assistance, contact Technical Support at 866/78AUDIO Please refer to the Engineering Data Sheet for warranty information. Specifications subject to change without notice.