

DH7

HIGH FREQUENCY TRANSDUCER

DH7-8/DH7-16

3-Inch High Frequency Transducer



Key Features:

- Very smooth frequency response
- Geometrically optimized titanium diaphragm
- 75mm edgewound aluminum voice coil
- Secure screw down terminals
- Compact and rugged
- 1.4" bolt-on exit diameter
- Available in 8 and 16 ohms



General Description:

The Electro-Voice DH7 high frequency compression driver is capable of high acoustic output over a wide frequency range. Precise engineering, along with careful selection of materials and advanced driver architecture, has resulted in a driver that is ideally suited for the most demanding presentation of high quality music and communications program.

Incorporating Electro-Voice's exclusive Ring Mode Decoupling (RMD) through all design phases has produced drivers with unmatched accuracy while minimizing any acoustic resonances, or time domain ringing throughout the driver structure.

Years of dedicated research and experience in the field have yielded a new high performance solution for use in both two and three-way systems, as well as demanding stand alone horn applications

A unique, geometrically optimized 3" titanium diaphragm, consisting of a one piece dome and suspension structure, gives these drivers an ideal combination of superb high frequency response and resistance to fatigue. The DH7 provides smooth response from 1000-20,000 Hz.

Technical Specifications:

	DH7-8	DH7-16
Nominal Impedance:	8 ohms	16 ohms
Minimum Impedance:	7 ohms @ 6 kHz	14 ohms
DC Resistance:	4.5 ohms	10 ohms
Freq. Response:	1000-20,000 Hz	
Power Capacity ¹ :	75 Watts, 150 Watts Cont. Prog.	
Recommended Crossover:	1000 Hz or Higher	
Nominal Efficiency:	25%	
Sound Pressure Level ² : (1 Watt @ 1 Meter)	113 dB, HP420 Horn 111 dB, HP640 Horn 109 dB, HP940 Horn	
Throat Diameter:	1.38" (35mm)	
Voice Coil Diameter:	3" (75 mm)	
Voice Coil Wire:	Pure Aluminum Ribbon	
Diaphragm Construction:	0.05 mm Pure Titanium Dome and Surround	
Electrical Connection:	Screw Terminals (Accepts a pair of 12GA Wires)	
Polarity:	Positive Voltage to Positive Terminal Produces a Positive Acoustic Pressure	
Flux Density:	1.7 Tesla	
Net Weight (each):	10.0 lbs (4.5 kg)	
Shipping Weight:	11.0 lbs (5.0 kg)	

¹ Power capacity per AES standard. Continuous pink noise, 1000 - 10000 Hz with a 6 dB crest factor, 2 hours.

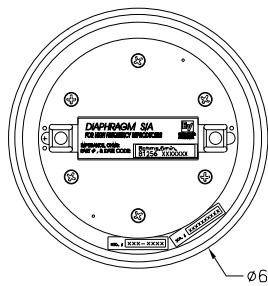
² Sound Pressure measured on axis in the far field with 1 Watt input of band-limited pink noise from 1000 - 5000 Hz and calculated to 1 Meter equivalent by inverse square law.

General Description (Cont'):

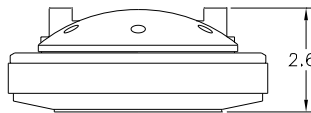
Pure aluminum rectangular voice coil wire is used to obtain the highest sensitivity. Proprietary bonding and winding technologies assure unsurpassed reliability and performance of all DH7 diaphragm assemblies.

Electro-Voice's commitment to precision compression driver manufacturing and modern design techniques assure the DH7 user the highest level of audio and engineering excellence.

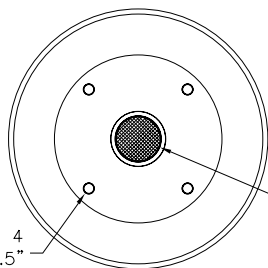
Dimension Drawings:



Top View



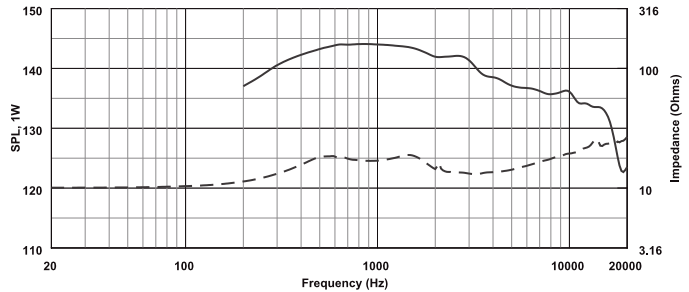
Side View



Bottom View

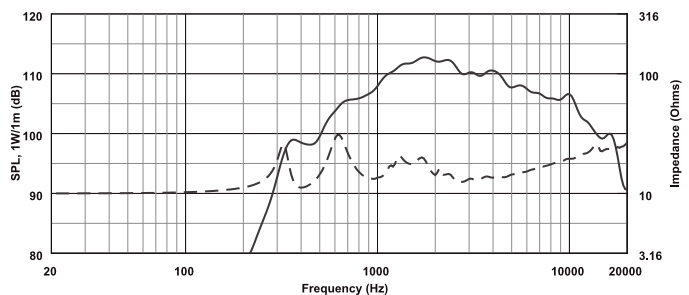
1/4-20 x 4
ON A 3.5"
BOLT CIRCLE

Frequency Response (On a Tube):



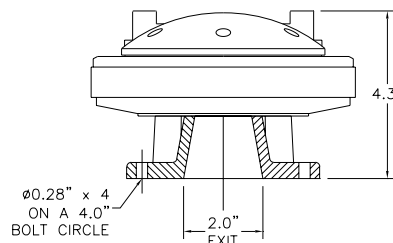
Note: Frequency response and impedance of the DH7-16 driver attached to a 38mm (1.5") diameter plane wave tube, using one watt input (4 Vrms).

Frequency Response (On an HP94 Horn):



Note: Frequency response and impedance of the DH7-16 driver attached to an HP94 Horn, measured on axis in the far field using one watt input (4 Vrms). SPL calculated to 1 meter equivalent by inverse square law.

Dimension Drawings (Cont'):



Side View
(Shown with
Optional ADH-6
Adapter)

Accessories:

- ADH-6 Adapter (For 2" Exit) 591183-102
(must be purchased separately)

DH7-8 Part Number: 827-3389
DH7-16 Part Number: 827-3390



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Part Number 38110-095 Rev. A

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Specifications subject to change without notice.

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