

# DH2T

HIGH FREQUENCY TRANSDUCER

## DH2T-8/DH2T-16

2-Inch High Frequency Transducer



### Key Features:

- Pure titanium dome provides extended high frequency response
- Lightweight aluminum voice coil for maximum efficiency
- Unique convex-drive phase plug
- 1-3/8" screw on connection
- Available in 8 and 16 ohms



### General Description:

The Electro-Voice DH2T 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 2" 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 DH2T provides smooth response from 800-20,000 Hz.

### Technical Specifications:

	DH2T-8	DH2T-16
Nominal Impedance:	8 ohms	16 ohms
Minimum Impedance:	6 ohms @ 7 kHz	12 ohms
DC Resistance:	4.5 ohms	11 ohms
Frequency Response:	800-20,000 Hz	
Power Capacity <sup>1</sup> :	40 Watts, 80 Watts Cont. Prog.	
Recommended Crossover:	800 Hz or Higher	
Nominal Efficiency:	25%	
Sound Pressure Level <sup>2</sup> : (1 Watt @ 1 Meter)	114 dB, HP420 Horn 112 dB, HP640 Horn 110 dB, HP940 Horn	
Throat Diameter:	1" (25mm)	
Voice Coil Diameter:	2" (50 mm)	
Voice Coil Wire:	Pure Aluminum Wire	
Diaphragm Construction:	0.03 mm Pure Titanium Dome and Surround	
Electrical Connection:	One 0.2" (+ Terminal) and one 0.25" (- Terminal) Fast-on Connectors	
Polarity:	Positive Voltage to Positive Terminal Produces a Positive Acoustic Pressure	
Flux Density:	1.6 Tesla	
Net Weight (each):	5.5 lbs (2.5 kg)	
Shipping Weight:	6.5 lbs (3.0 kg)	

<sup>1</sup> Power capacity per AES standard. Continuous pink noise, 800 - 8000 Hz with a 6 dB crest factor, 2 hours.

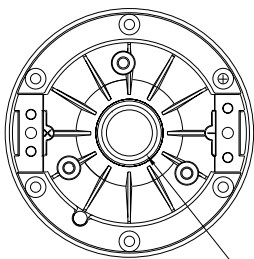
<sup>2</sup> Sound Pressure measured on axis in the far field with 1 Watt input of band-limited pink noise from 500 - 5000 Hz and calculated to 1 Meter equivalent by inverse square law.

## 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 DH2T diaphragm assemblies.

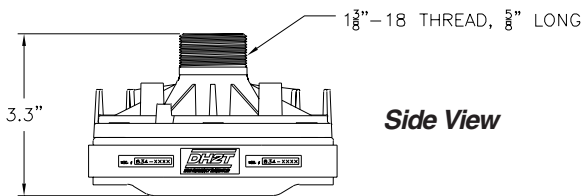
Electro-Voice's commitment to precision compression driver manufacturing and modern design techniques assure the DH2T user the highest level of audio and engineering excellence.

## Dimension Drawings:



Top View

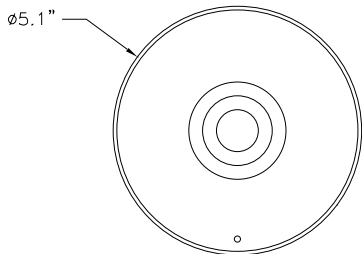
Ø1.0" EXIT



Side View

3.3"

1 3/8" - 18 THREAD, 5/8" LONG



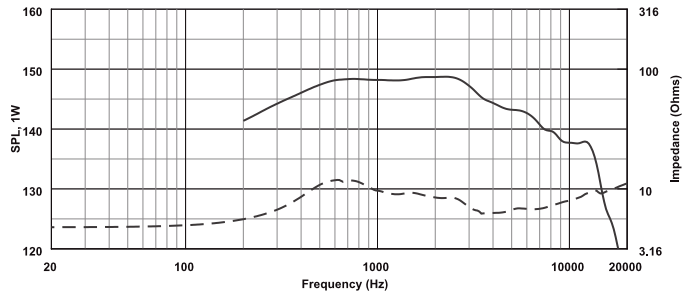
Bottom View

Ø5.1"

### Accessories:

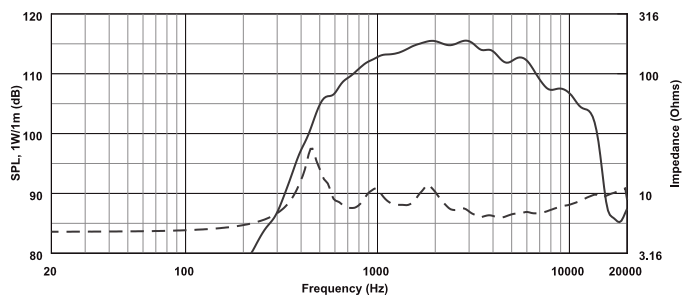
- ADH-3 Adapter (For 1.38" Exit) 588-587  
(must be purchased separately)
- ADH-5 Adapter (For 2.0" Exit) 588-2855  
(must be purchased separately)

## Frequency Response (On a Tube):



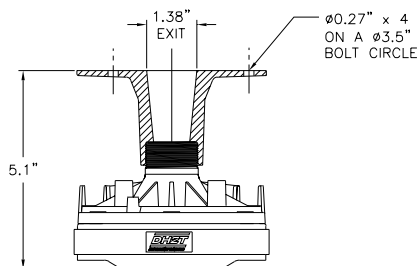
Note: Frequency response and impedance of the DH2T-16 driver attached to a 25mm (1.0") diameter plane wave tube, using one watt input (4 Vrms).

## Frequency Response (On an HP64M Horn):

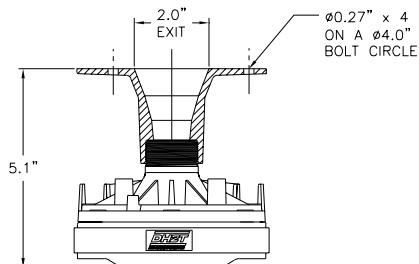


Note: Frequency response and impedance of the DH2T-16 driver attached to an HP64M Horn, measured on axis in the far field using one watt input (4 Vrms). SPL calculated to 1 meter equivalent by inverse square law.

## Dimension Drawings (Cont'):



Side View  
(Shown with  
Optional ADH-3  
Adapter)



Side View  
(Shown with  
Optional ADH-5  
Adapter)

DH2T-8 Part Number: 834-PA-2680  
DH2T-16 Part Number: 834-PA-3391



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Part Number 38110-094 Rev. A

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Specifications subject to change without notice.

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