ND6

HIGH FREQUENCY TRANSDUCER

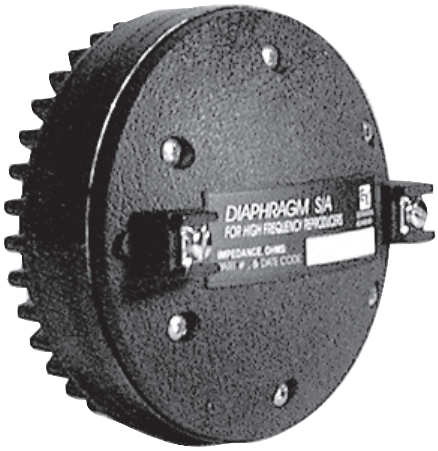
ND6-8/ND6-16

3-Inch High Frequency Neodymium Transducer

Step Up To Electro-Voice®

Key Features:

- **Extremely high acoustic output**
- **Geometrically optimized titanium diaphragm**
- **World-Class Sensitivity and Reliability**
- **Neodymium magnet provides unprecedented output to size ratio**
- **Compact, rugged and light weight**
- **1.4" exit diameter**
- **2.0" exit diameter with ADH-6 adapter**



General Description:

The Electro-Voice ND6 is a world-class high-frequency compression driver capable of extremely 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.

The unusually small size and weight-to-power ratio of the ND6 assures easy installations where weight may be a concern. Additionally the 2.15 Tesla flux density provided by the Neodymium magnet exceeds that of most conventional drivers at a fraction of the size.

A unique, geometrically optimized 3" titanium diaphragm, consisting of a one-piece dome and suspension system gives these drivers an ideal combination of superb high-frequency response and resistance to fatigue.

Technical Specifications:

	ND6-8	ND6-16
Nominal Impedance:	8 ohms	16 ohms
Minimum Impedance:	7 ohms @ 6 kHz	14 ohms
DC Resistance:	4.5 ohms	10 ohms
Freq. Response:	1000Hz-20,000Hz	
Power Capacity[1]:	75 Watts	
Nominal Efficiency:	28%	
Sound Pressure Level[2]: (1 Watt @ 1 Meter)	114 dB, HP420 Horn 112 dB, HP640 Horn 110 dB, HP940 Horn 108 dB, HP1240 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:	2.15 Tesla	
Net Weight (each):	5.5 lbs (2.5 kg)	
Shipping Weight:	6.5 lbs (3.0 kg)	

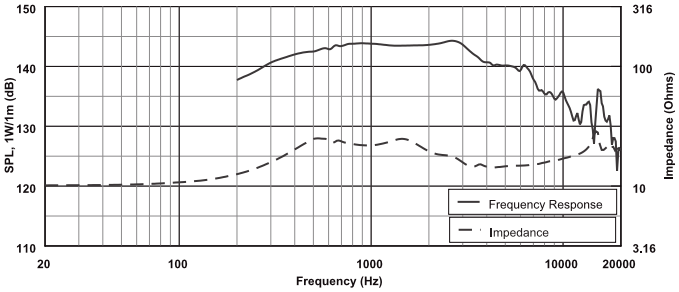
[1] Power capacity per AES standard. Continuous pink noise with a 6 dB crest factor, 2 hours.
[2] Sound Pressure measured on axis in the far field with 1 Watt input of band-limited pink noise from 1000 - 5000Hz and calculated to 1 Meter equivalent by inverse square law.

General Description (Cont'):

Pure aluminum rectangular voice coil wire is used to obtain the highest sensitivity. Proprietary bonding and winding technologies assure unsurpassed reliability.

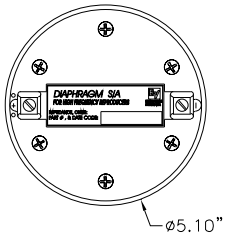
Electro-Voice's commitment to precision compression driver manufacturing and modern design techniques assure the ND6 user the highest level of audio and engineering excellence.

Frequency Response (On a Tube):

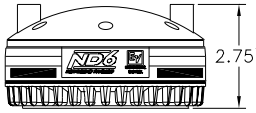


Note: Frequency response and impedance of the ND6-16 driver attatched to a 38 mm (1.5") diameter plane wave tube, using one watt input (4 Vrms).

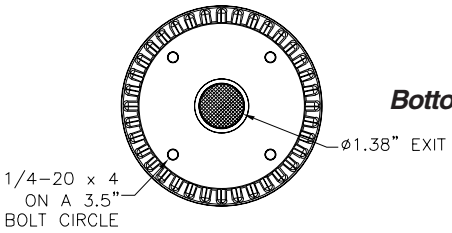
Dimension Drawings:



Top View

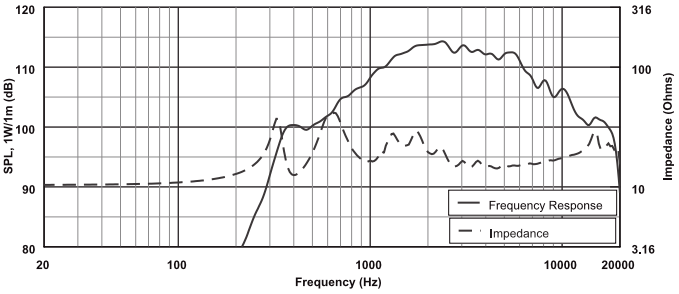


Side View



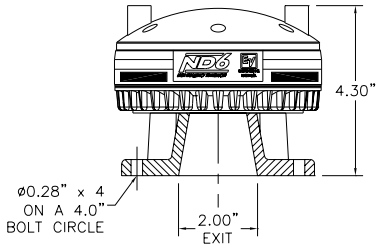
Bottom View

Frequency Response (On an HP94 Horn):



Note: Frequency response and impedance of the ND6-16 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 ADH-6 Adapter)

Accessories:

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

ND6-8 Part Number: 301051-102
ND6-16 Part Number: 301052-102

Electro-Voice®

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Part Number 38110-083 Rev. A

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800/685-2606
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