ND2060A

HF Neodymium Driver

KeyFeatures

- 110 dB 1W/1m average sensitivity
- 2 inch exit throat
- 3 inch edgewound aluminum voice coil
- 160 W program power handling
- Aluminum PEN diaphragm
- Neodymium magnetic structure
- Excellent thermal exchange

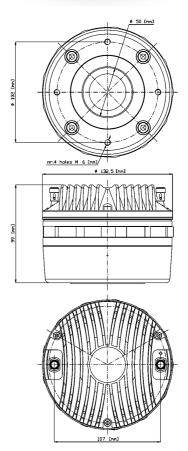
Description

The ND2060A 2 inch exit neodymium HF compression driver has been designed for high quality sound systems application. The ND2060A diaphragm assembly is composed by an aluminum dome sandwiched to a proprietary treated PEN (polyethylene naftalate) suspension. This design maintains low resonance and lowers the minimum crossover point value at 800 Hz. The composite diaphragm assembly is made by an aluminum dome strongly joined to the PEN suspension, in order to assure unmatched transient response. The lower density of the aluminum and PEN structure permits higher levels of sensitivity, especially in the mid-high frequency range. A bended former edge-wound aluminum 75mm voice coil completes the diaphragm assembly. The proprietary treated Nomex former material shows 30% higher value of tensile elongation at working operative temperature (200°C) when compared to Kapton. Moreover, Nomex is suitable to work also in higher moisture contents environments. The bended former is joint in a sandwich configuration between PEN suspension and the aluminum dome, assuring extended frequency energy transfer for improved response linearity and unparallel reliability. Through careful use of elementary pieces of neodymium magnets, Eighteen Sound engineers have developed a powerful neodymium magnet assembly able to reach 19 KGauss in the gap in a compact and lightweight structure. The motor structure, throughout the precisely coherent phase plug with 3 circumferential slots and copper ring on the pole piece, reduces inductance effects and distortion. Four top plate air ducts were designed to act as a loading chamber for the diaphragm, implementing mid band distortion and response figures. The custom designed O-ring creates a tight seal between the plate and the cover assuring air chamber loading. Excellent heat dissipation and thermal exchange are guaranteed by the direct contact between the magnetic structure and the aluminum cover that allows to obtain a lower power compression value. For the increase in use of high power audio systems at outdoor events or in marine environments, the ability to perform properly under inclement weather conditions is a key-point. The special coating applied to the magnet and the top and back plates of the magnetic structure makes the ND2060A compression driver resistant to the corrosive effects of salts and oxidization.

Models

Model	Code	Information
0423A8M600	0423A8M600	80hm
0423A6M600	0423A6M600	160hm







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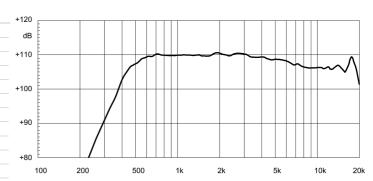
General Specifications

Throat Diameter	50 mm (2 in)	
Rated Impedance	8 Ohm	
DC Resistance	6,2 Ohm	
Minimum Impedance	8 Ohm at 3500 Hz	
Le (at 1kHz)	124 µH	
AES Power	80 W above 1,2 kHz	
Program Power	160 W above 1,2 kHz	
Sensitivity (1W@1m)	110 dB	
Frequency Range	500 Hz ÷ 20 kHz	
Recomm. Xover Frequency	Above 800Hz (12 dB/oct slope)	
Diaphragm Material	Aluminum - Polyethylene	
Voice Coil Diameter	75 mm (3 in)	
Voice Coil Winding Material	Edge-wound aluminum	
Magnet Material	Neodymium	
Flux Density	1,9 T	
BL Factor	13,5 N/A	
Polarity	Positive voltage on the red terminal gives positive pressure in the throat	

Thiele Small Parameters

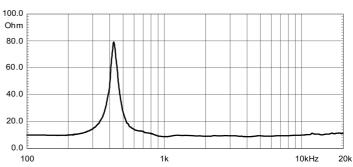
Mounting information

Overall diameter	132,5 mm (5,22 in)
N. of mounting holes and bolt	4 M6 holes 90° at Ø102 mm (4 in)
Bolt circle diameter	102mm (4 in)
Total depth	99 mm (3,9 in)
Net weight	3,6 kg (7,9 lb)
Shipping weight	4 kg (8,8 lb)
CardBoard Packaging dimensions	132x132x103 mm(5,2x5,2x4,1 in)



ND2060A MEASURED WITH 1W INPUT ON RATED IMPEDANCE AT 1 M DISTANCE FROM THE MOUTH OF XR2064 HORN

FREE AIR IMPEDANCE MAGNITUDE CURVE



FREE AIR IMPEDANCE MAGNITUDE CURVE

Notes

 AES power rating is tested with a pink noise input having a 6 dB crest factor for two hours duration within the specified range. Power calculated on minimum impedance.
Program power rating is defined as 3 dB greater than AES rating and is a conservative expression of the transducer ability to handle music program material.
Sensitivity is measured on 1 W input on rated inpedance at 1 m on axis from the mouth of XR2064 horn, averaged between 1 kHz and 4 kHz.

