ND1460A 16Ω

HF Drivers - 1.4 Inches

- 110 dB 1W/1m average sensitivity
- 1,4 inch exit throat
- 3 inch edgewound aluminum voice coil
- 160W program power handling
- Aluminum PEN diaphragm
- High grade neodymium magnetic structure
- Excellent thermal exchange

The ND1460A 1.4 inch exit neodymium HF compression driver has been designed for high level sound systems application. The diaphragm assembly is composed by an aluminum dome sandwiched to a proprietary treated polyester suspension. This design maintains low resonance and lowers the minimum crossover point value at 800Hz. 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 jointed 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. The ability to perform properly under inclement weather conditions is a key-point of Eighteen Sound philosophy. The special coating applied to the magnet and the top and back plates of the magnetic structure makes the ND1460A compression driver resistant to the corrosive effects of salts and oxidization.

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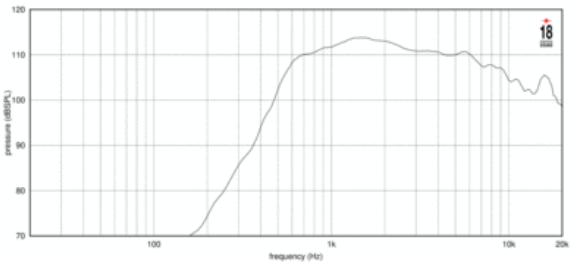

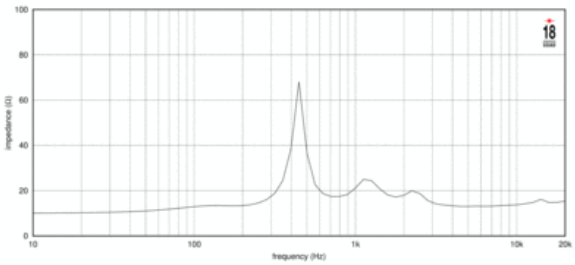

SPECIFICATIONS[1]

Throat Diameter	35 mm (1.4 in)
Nominal Impedance	16 Ω
Minimum Impedance	10.0 Ω
Nominal Power Handling[2]	80 W
Continuous Power Handling[3]	160 W
Sensitivity[4]	110.0 dB
Frequency Range	0.5 - 20.0 kHz
Recommended Crossover[5]	0.8 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Diaphragm Material	Aluminum - Pen
Flux Density	1.9 T
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	132 mm (5.2 in)
Depth	62 mm (2.44 in)
Net Weight	3.2 kg (7.05 lb)
Shipping Weight	3.4 kg (7.5 lb)
Shipping Box	132x132x68 mm (5.20x5.20x2.68 in)

1. Driver mounted on Eighteen Sound XR1464C horn
2. 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated nominal impedance.
3. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
4. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
5. 12 dB/oct. or higher slope high-pass filter.

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