

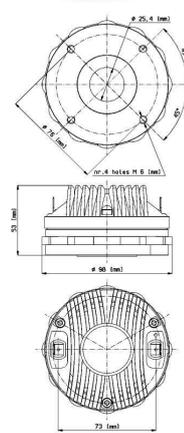


ND1075 8Ω

HF Drivers - 1.0 Inches



 EighteenSound.com



- 1 inch exit throat
- 108 dB SPL 1W/ 1m average sensitivity 44 mm (1 3/4 inch) voice coil diameter
- 100 Watt program power handling
- Titanium diaphragm
- Proprietary Phase Plug design
- Excellent thermal exchange
- High grade neodymium magnet

The ND1075 is a 1 inch exit neodymium high frequency compression driver specifically designed for high quality applications.

Equipped with proprietary phase plug architecture, the ND1075 has been developed to give high level manufacturing consistency and smooth coherent wavefront at horn entrance over all the working frequency range. This phase plug design, with its short openings and high flare rate value assures low distortion and remarkable improvements in mid-high frequency reproduction.

With its ellipsoidal suspension shape, the titanium diaphragm assembly exhibits constant slope response from 1kHz to 18kHz with uniform smooth roll-off behavior. An edge-wound aluminum voice coil, wound on proprietary treated Nomex, completes diaphragm assembly. Thanks to its physical properties, the proprietary treated Nomex former shows 30% higher value of tensile elongation at working operative temperature (200°C) when compared to Kapton.

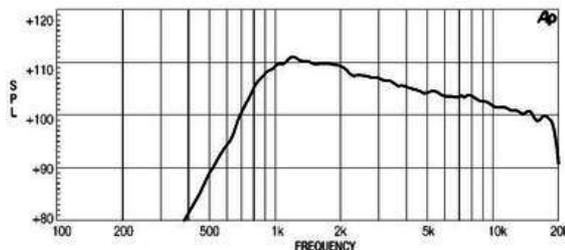
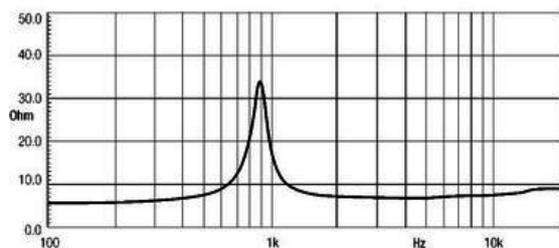
Moreover, this proprietary former material is suitable to work also in higher moisture contents environments.

Through careful use of elementary pieces of neodymium magnets, Eighteen Sound engineers have developed a powerful neodymium magnet assembly able to reach 18 KGauss in the gap in compact and lightweight structure.

A copper ring on the pole piece reduces inductance above 10 kHz improving phase and impedance linearization.

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 the Eighteen Sound philosophy. A special treatment is applied to the magnet and the top and back plates of the magnetic structure making the ND1075 driver more resistant to the corrosive effects of salts and oxidization than any other treatment used by any other manufacturer.





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SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Nominal Power Handling ²	50 W
Continuous Power Handling ³	100 W
Sensitivity ⁴	108.0 dB
Frequency Range	1.6 - 20.0 kHz
Recommended Crossover ⁵	1.6 kHz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	98 mm (in)
Depth	53 mm (in)
Net Weight	1.1 kg (lb)
Shipping Weight	1.2 kg (lb)
Shipping Box	97x97x58 mm (3.82x3.82x2.28 in)

1. Driver mounted on Eighteen Sound XR1064 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.