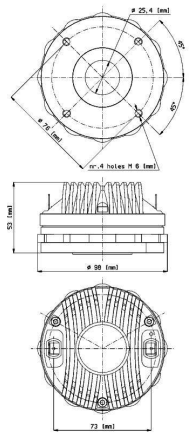
ND1060 8Ω

HF Drivers - 1.0 Inches





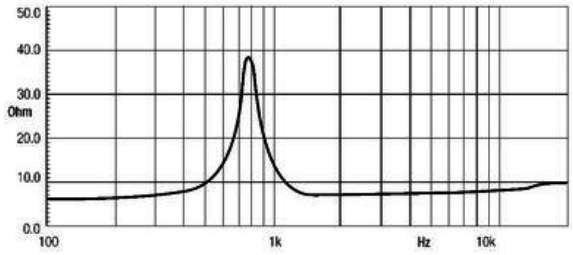
- 108 dB SPL 1W / 1m average sensitivity 1 inch exit throat
- 44 mm (1 3/4 inch) edgewound aluminum voice coil 80 Watt program power handling
- Treated polyethylene diaphragm
- Proprietary phase plug design
- Neodymium magnetic structure
- Excellent thermal exchange

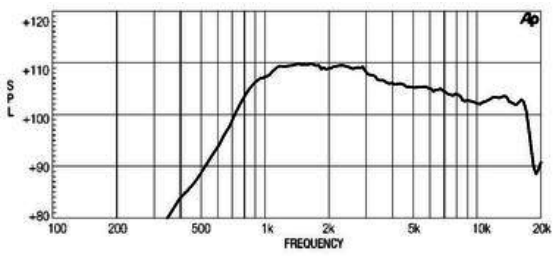
Eighteen Sound Srl
Via Botticelli 8 - 42124 Mancasale (RE) - ITALY - Ph. +39 0522 1861800 - Fax +39 0522 1861801 - info@eighteensound.it

ND1060 8Ω

HF Drivers - 1.0 Inches

The ND1060 1 inch exit neodymium high frequency compression driver has been designed for use in high quality audio system designs.
One key advancement in the ND1060 is its innovative diaphragm assembly made from a proprietary treated Polyethylene material.
Consequently, the ND1060, with its inherent superior diaphragm dimensional stability (160°C), is able to maintain constant behavior during its whole working life. Moreover, the proprietary treated polyethylene film, with its very high value of modulus of elasticity (50% more than standard Mylar and 100% more than polyimide film), is capable of superior transient and intermodulation distortion response. The flat suspension shape has been designed to maintain low stiffness and low mid band distortion and response.
An edge-wound aluminum voice coil wound on proprietary treated Nomex completes the diaphragm assembly. Nomex shows a 30% higher value of tensile elongation at a working operative temperature (200°C) when compared to Kapton. This feature enables proper energy transfer control from the voice coil to the dome in real working conditions. Further, this proprietary former material is also suitable for use in high moisture content environments.
Equipped with proprietary phase plug architecture, ND1060 shows high level manufacturing consistency and a smooth coherent wavefront at the horn entrance across the whole working frequency range. With its short openings and high flare rate value, this phase plug design assures low distortion and demonstrates remarkable improvements in mid-high frequency reproduction. By careful use of elementary pieces of neodymium magnets, Eighteen Sound engineers have developed a powerful neodymium magnet assembly capable of reaching 18KGauss in the gap, within a 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 which facilitates a lower power compression value.
The ability to perform properly under inclement weather conditions is a key-point in the Eighteen Sound philosophy. A special treatment has been applied to the magnet and the top and back plates of the magnetic structure making the ND1060 driver more resistant to the corrosive effects of salts and oxidization. This treatment is more
effective than any other treatment used by other manufacturers.





ND1060 8Ω

HF Drivers - 1.0 Inches

SPECIFICATIONS[1]

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.0 Ω
Nominal Power Handling[2]	40 W
Continuous Power Handling[3]	80 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	Treated polyethylene
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	98 mm (3.86 in)
Depth	53 mm (2.09 in)
Net Weight	1.1 kg (2.43 lb)
Shipping Weight	1.2 kg (2.65 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.