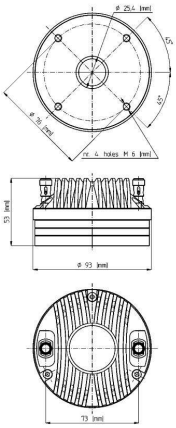
ND1080 8Ω

HF Drivers - 1.0 Inches



- 109 dB SPL 1W / 1m average sensitivity 1 inch exit throat
- 44 mm (1 3/4 inch) voice coil diameter
- 100 Watt program power handling
- Pure titanium dome
- Patented phase plug design
- Neodymium ring magnetic structure
- Excellent thermal exchange

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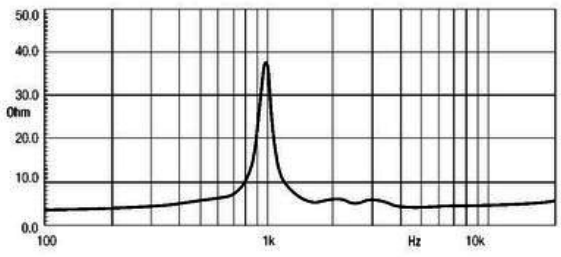
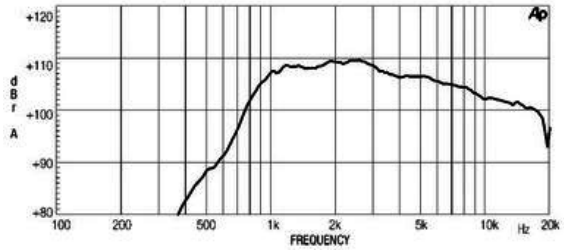
The ND1080 one inch exit neodymium compression driver is designed for use in three-way high-end audio systems, where superior top end control is achieved.
Equipped with unique Phase Plug architecture, the ND1080 is designed to give high level manufacturing consistency and smooth coherent wavefront at horn entrance over all the working frequency range. The phase plug with short openings and high flare rate value assures low distortion and remarkable improvements in mid-high
frequency reproduction.
The diaphragm assembly, which is composed by a titanium dome sandwiched to a proprietary treated polyester suspension, has a higher resonance frequency if compared to ND1090, usable for crossover frequency down to 1.9 kHz, keeping very high control on the upper frequency range. An edge-wound aluminum voice coil, wounded on the 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.
The ND1080 powerful neodymium magnet assembly is designed to obtain 20 KGauss in the gap for major benefits in transient response. 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 special treatment applied to the magnet and the top and back plates of the magnetic structure makes the ND1080 compression driver more resistant to the corrosive effects of salts and oxidization than any other treatment used by any other manufacturer.





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SPECIFICATIONS[1]

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Nominal Power Handling[2]	50 W
Continuous Power Handling[3]	100 W
Sensitivity[4]	109.0 dB
Frequency Range	1.9 - 20.0 kHz
Recommended Crossover[5]	1.9 kHz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	93 mm (3.66 in)
Depth	53 mm (2.09 in)
Net Weight	1.2 kg (2.65 lb)
Shipping Weight	1.3 kg (2.87 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.