ND1P 16Ω

HF Drivers - 1.0 Inches

- Neodymium magnet
- Edgewound CCAW Voice Coil
- Copper ring
- 109dB Sensitivity
- PEN diaphragm
- Super compact design

The ND1P is a 1 inch exit neodymium high frequency compression driver specifically designed for high quality applications.
Equipped with proprietary phase plug architecture, the ND1P 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.
The pure Pen diaphragm assembly exhibits constant slope response from 1.5kHz to 18kHz with uniform smooth roll-off behavior. An edge-wound aluminum voice coil, wounded 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.
A copper ring on the pole piece reduces inductance above 10 kHz improving phase and impedance linearization.
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 ND1TP driver more resistant to the corrosive effects of salts and oxidization than any other treatment used by any other manufacturer.

Eighteen Sound Srl
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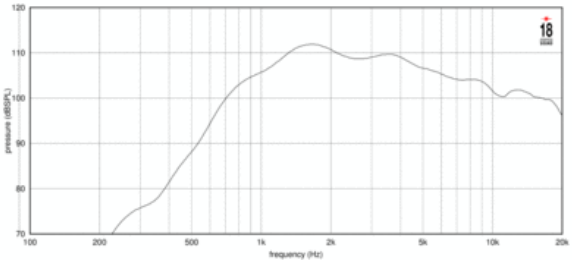

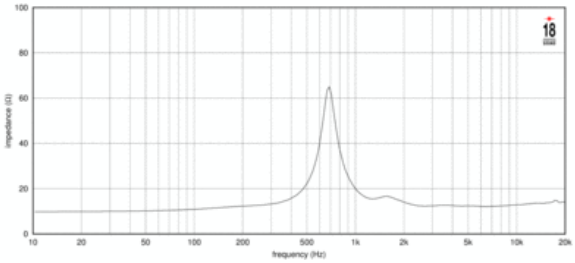

SPECIFICATIONS[1]

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	16 Ω
Minimum Impedance	12.4 Ω
Nominal Power Handling[2]	50 W
Continuous Power Handling[3]	100 W
Sensitivity[4]	109.0 dB
Frequency Range	1600.0 - 18000.0 kHz
Recommended Crossover[5]	1.6 kHz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	Aluminum
Diaphragm Material	Treated polyethylene
Flux Density	2.0 T
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	85 mm (3.35 in)
Depth	46 mm (1.81 in)
Net Weight	0.9 kg (1.98 lb)
Shipping Weight	1.0 kg (2.2 lb)

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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