

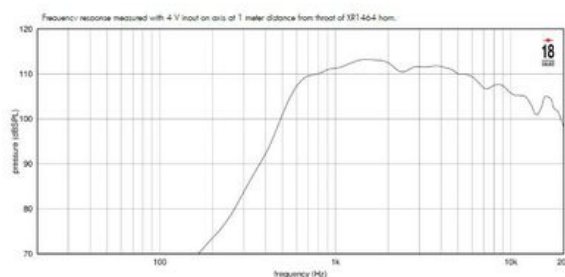
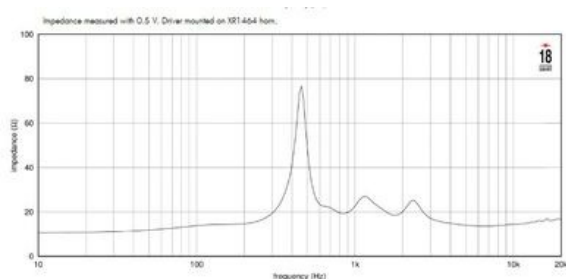
ND1480BE 16Ω

HF Drivers - 1.4 Inches



- 3 inch premium Beryllium dome - polymer surround diaphragm
- Extended HF with minimal breakup
- 112 dB 1W / 1m average sensitivity
- 1.4 inch throat exit
- 3 inch edgewound aluminum voice coil
- 200 W program power handling
- Excellent thermal exchange
- HF copper sleeve for reduced distortion and increased output
- Exceptional clarity even at very high SPL

The ND1480BE is a 1.4 inch exit, 3 inch diaphragm neodymium HF compression driver that has been designed for high level sound systems applications requiring critical accuracy. The 75mm (3in) diaphragm assembly is composed of a pure Beryllium dome attached to a proprietary treated polymer suspension. With its high value of elasticity modulus, Beryllium is capable of double the stiffness of titanium or aluminum with great benefits in transient response, efficiency and reduced distortion. The piston frequency range motion extends frequency by 25%, showing a predictable, ideal frequency response decay and avoiding high frequency spurious resonances while achieving maximum sensitivity due to Beryllium's low mass vs. stiffness. An angled former edge-wound copper-clad aluminum (CCAW) 75mm voice coil completes the diaphragm assembly. The proprietary treated Nomex former material shows 30% higher value of tensile elongation at working operating temperature when compared to Kapton. Moreover, this Nomex is suitable to work in high moisture-content environments. The angled former to diaphragm joint in a sandwich configuration between polymer suspension and the Beryllium dome assures extended frequency energy transfer for improved response linearity, extended HF and unparalleled reliability. The ND1480BE powerful neodymium magnet assembly has been designed to obtain 22 KGauss in the gap with major benefits in transient response and efficiency. The motor structure, throughout the precisely coherent phase plug with 3 circumferential slots (3P) and copper ring on the pole piece, reduces inductance effects and distortion. The custom designed O-ring creates a tight seal between the plate and the cover assuring optimal air chamber loading. 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 ND1480BE compression driver resistant to the corrosive effects of moisture, salts and oxidization.





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HF Drivers - 1.4 Inches

SPECIFICATIONS¹

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	16 Ω
Minimum Impedance	10.6 Ω
Nominal Power Handling ²	80 W
Continuous Power Handling ³	200 W
Sensitivity ⁴	112.0 dB
Frequency Range	500.0 - 20.0 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Diaphragm Material	Beryllium dome on polymer surround
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	131 mm (in)
Depth	62 mm (in)
Net Weight	3.1 kg (lb)
Shipping Weight	3.3 kg (lb)
Shipping Box	132x132x68 mm (5,2x5,2x2,7 in) mm (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.