

- 110 dB SPL 1W/ 1m average sensitivity
- 1.4 inch exit throat
- 3 inch edgewound aluminum voice coil
- 200 W program power handling
- Composite Titanium PEN diaphragm assembly
- Neodymium magnetic structure
- Excellent thermal exchange

The ND1460T 1.4-inch exit neodymium high frequency compression driver has been designed for high level sound systems application.

The diaphragm assembly is composed of a titanium dome sandwiched to a proprietary treated polyester suspension unit. It has been designed to maintain low resonance, lowering the minimum crossover point value at 1.2kHz. The diaphragm assembly is made by joining the former directly to the diaphragm on its upper bend edge. In comparison with a usual straight former joint, the driver's design assures extended frequency energy transfer for improved response linearity and unparallel reliability. This feature facilitates proper motion control of the dome in real working conditions.

A proprietary treated Nomex former is used as shows a 30% higher value of tensile elongation at a working operative temperature (200°C) when compared to Kapton. Moreover, this proprietary former material is also suitable for use in higher moisture content environments.

By careful use of elementary pieces of neodymium magnets, the powerful neodymium magnet assembly is able to reach 19 KGauss in the gap in a compact and lightweight assembly.

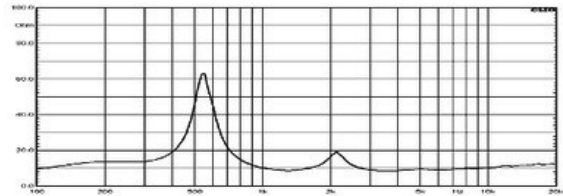
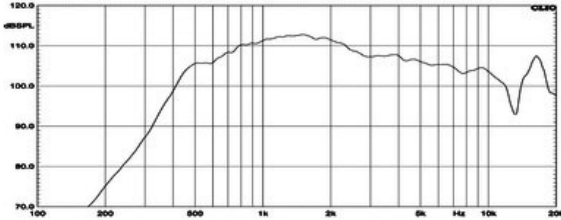
The ND1460T motor structure, throughout the precisely coherent aluminum phase plug with 3 circumferential slots and the copper ring on the pole piece, reduces inductance effects and distortion.

Four top plate air ducts have been designed to act as a loading chamber for the diaphragm, lowering midrange frequencies distortion and improving frequency response figure.

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 leads to a lower power compression value.

A special treatment has been applied to the magnet and the top and back plates of the magnetic structure which make the driver more resistant to the corrosive effects of salts and oxidization.



SPECIFICATIONS¹

Throat Diameter	35 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Nominal Power Handling ²	100 W
Continuous Power Handling ³	200 W
Sensitivity ⁴	110.0 dB
Frequency Range	0.5 - 20.0 kHz
Recommended Crossover ⁵	0.8 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Diaphragm Material	Titanium - Pen
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	132 mm (5.2 in)
Depth	62 mm (in)
Net Weight	2.9 kg (6.39 lb)
Shipping Weight	3.0 kg (6.61 lb)
Shipping Box	132x132x68 mm (5.20x5.20x2.68 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.
5. 12 dB/oct. or higher slope high-pass filter.