



- 1 inch exit throat
- 109 dB SPL 1W/ 1m average sensitivity
- 25,4 mm (1 in) edgewound aluminum voice coil
- 50 Watt program power handling
- Low weight, easy mounting and handling structure
- Usable in two way or multiway systems

The HD125 1 inch exit HF unit has been designed as the natural evolution of the industry standard HD120 compression driver. It delivers an unmatched combination of extended linear frequency response and very high efficiency.

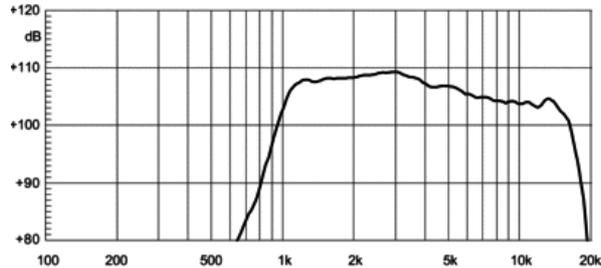
The HD125 diaphragm assembly is made in proprietary treated polyethylene material. This design maintains the minimum resonance frequency point value at 1600 Hz, extending the frequency response in the mid region when compared to HD120 compression driver.

The design of diaphragm and its surround in polyester material allow a best movement and stress control; the special radial ribs increase stiffness avoiding uncontrolled vibration modes in the usable frequency range.

An edge-wound aluminum voice coil, wound on proprietary treated Nomex, completes diaphragm assembly. Thanks to its physical properties, the voice coil former shows 30% higher value of tensile elongation at working operative temperature (200°C) when compared to Kapton. This plus is capable to keep properly energy transfer control to the dome in real working conditions. Moreover, this particular former material is suitable to work also in higher moisture contents environments.

The polypropylene phase plug is the result of a meticulous design exercise. Its shape assures the correct acoustic impedance of the radiating dome, reducing distortion levels across a very wide frequency range. At the end, it results in a smooth coherent wavefront in the horn entrance, high thermal stability and manufacturing consistency.

The HD125 compact size and lightweight ceramic magnet assembly has been designed to obtain 16 KGauss in the gap.



SPECIFICATIONS¹

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	16 Ω
Minimum Impedance	10.7 Ω
Nominal Power Handling ²	25 W
Continuous Power Handling ³	50 W
Sensitivity ⁴	109.0 dB
Frequency Range	2.0 - 18.0 kHz
Recommended Crossover ⁵	2.5 kHz
Voice Coil Diameter	25 mm (1.0 in)
Winding Material	Copper
Diaphragm Material	Polyester
Flux Density	1.65 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFO

Overall Diameter	87 mm (3.43 in)
Depth	46 mm (1.81 in)
Net Weight	0.8 kg (1.76 lb)
Shipping Weight	0.9 kg (1.98 lb)
Shipping Box	90x90x70 mm (3.54x3.54x2.76 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.