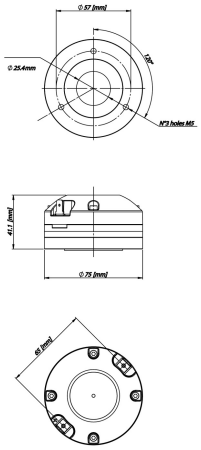
ND1050 8Ω

HF Drivers - 1.0 Inches



- 110 dB SPL 1W / 1m average sensitivity
- 1 inch exit throat
- 44mm (1 3/4 inch) voice coil diameter
- 100 Watt program power handling
- Neodymium magnet structure
- Titanium dome over PEN suspension
- Ultra compact size - 75mm external diameter
- Proprietary phase plug design
- Ideal for multiple HF line arrays
- 16 Ohm version available

The ND1050 one inch exit high frequency compression driver is designed for high quality applications, where size is a critical issue. ND1050 high flux ultra compact magnetic assembly architecture, achieves the remarkable 1,9 Tesla value in the gap containing the external size in 75mm - 3 inches - making this HF driver a benchmark in its category. Equipped with Eighteen Sound proprietary Phase Plug architecture, the ultra compact ND1050 ensures a coherent wavefront at the horn entrance over all the working frequency range. The radial - tangerine phase plug design with short openings and high flare rate value assures low distortion and remarkable improvements in mid-high frequency reproduction. The transducer diaphragm assembly is composed of a titanium dome sandwiched to a proprietary treated polyester suspension. This design maintains low resonance and lowers the minimum crossover point value to 1.6kHz. 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. Moreover, this material is suitable to work also in higher moisture contents environments. The ability to perform properly under inclement weather conditions is a key-point of the Eighteen Sound philosophy. The special treatment applied to the magnet and the top and back plates of the magnetic structure makes the driver more resistant to the corrosive effects of salts and oxidization than any other treatment used by other manufacturers.

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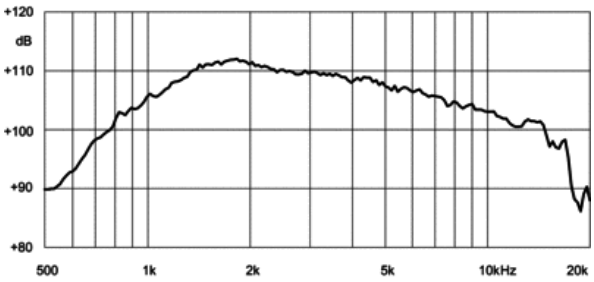

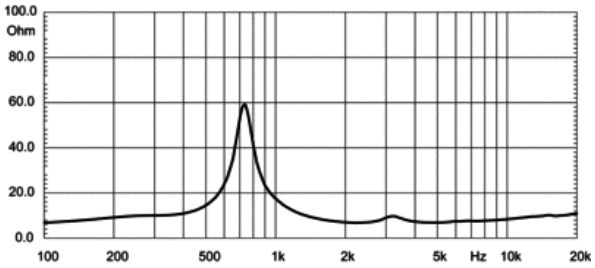

SPECIFICATIONS[1]

Throat Diameter	25 mm (1.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Nominal Power Handling[2]	50 W
Continuous Power Handling[3]	100 W
Sensitivity[4]	110.0 dB
Frequency Range	1.6 - 20.0 kHz
Recommended Crossover[5]	1.6 kHz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	Aluminum
Diaphragm Material	Titanium - Pen
Flux Density	1.9 T
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	75 mm (in)
Depth	41 mm (in)
Net Weight	0.55 kg (lb)
Shipping Weight	0.6 kg (lb)
Shipping Box	97x97x58 mm (3,8x3,8x2,3 in) mm (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.

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