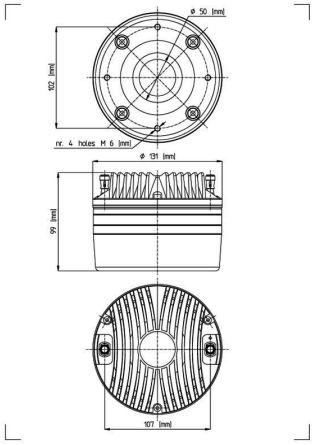
ND2080A 8Ω

HF Drivers - 2.0 Inches



- 111 dB 1W/1m average sensitivity 2 inch exit throat
- 3 inch edgewound aluminum voice coil
- 160 W program power handling
- Pure Aluminum dome - PEN suspension Neodymium ring magnetic structure
- Copper sleeve for flat impedance response
- Excellent thermal exchange

The ND2080 2-inch exit high frequency compression driver has been designed for high quality sound systems application. The Aluminum-Pen diaphragm is produced in house and has been developed to assure unmatched transient response. The diaphragm assembly is made by joining the former directly to the titanium dome on its upper bend edge. In comparison with a usual straight former joint, the driver design assures extended frequency energy transfer for improved response linearity and unparallel reliability. This feature allows proper motion control of the dome in real working conditions. A proprietary treated Nomex former is used as Nomex 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. The ND2080 powerful neodymium magnet assembly has been designed to obtain 22KGauss in the gap for major benefits in transient response. The motor structure, throughout the precisely coherent phase plug with 3 circumferential slots and copper ring on the pole piece, reduces inductance effect and distortion. Four top plate air ducts have been designed to act as a loading chamber for the diaphragm, implementing mid band distortion and response figures. 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. Due to the increasing use of high power audio systems at outdoor events or in marine environments, the ability of equipment to perform properly under inclement weather conditions is a key feature of Eighteen Sound philosophy. Hence, a special treatment is applied to the magnet and the top and back plates of the magnetic structure making the driver more resistant to the corrosive effects of salts and oxidization. This treatment is more effective than any other treatment used by other manufacturers.

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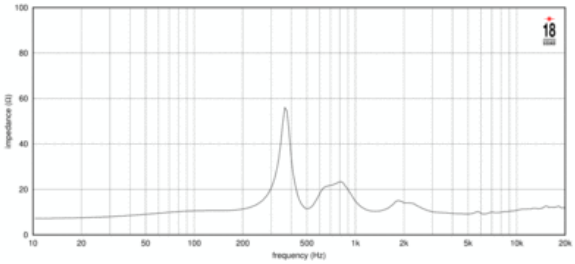

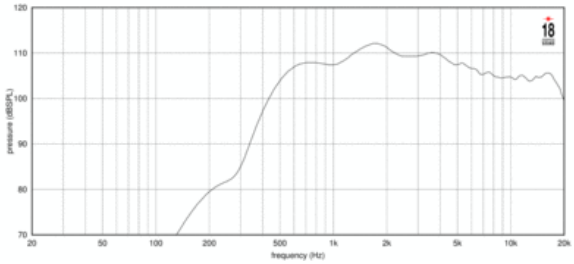

SPECIFICATIONS[1]

Throat Diameter	51 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	8.0 Ω
Nominal Power Handling[2]	80 W
Continuous Power Handling[3]	160 W
Sensitivity[4]	111.0 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	Aluminum - Pen
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	131 mm (5.16 in)
Depth	99 mm (3.9 in)
Net Weight	3.4 kg (7.5 lb)
Shipping Weight	3.5 kg (7.72 lb)
Shipping Box	132x132x103 mm (5.20x5.20x4.06 in)

1. Driver mounted on Eighteen Sound XR2064C 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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