ND3SN 16Ω

HF Drivers - 1.4 Inches

- 1.4 inch exit Neodymium compression driver
- Very fast impulse response for excellent transient reproduction
- Natural Sound frequency response extended up to 20 kHz
- 240 W program power handling
- 112 dB 1W / 1mt sensitivity
- 75 mm (3 in) Edgewound CCAW voice coil
- TPM nitride coat technology
- Next gen 4-slot metal alloy phase plug design
- Copper sleeve for reduced distortion and increased high end output
- 16 Ohm version available

The ND3SN 1.4 inch exit Natural Sound neodymium high frequency compression driver has been designed to fulfill state of the art performances needed for present and future very high quality sound reinforcement applications.

In addition to the next-gen titanium diaphragm of the standard ND3ST version, our TPM nitrate coat is applied, doubling the titanium stiffness and avoiding spurious resonances at very high frequencies, assuring a 3rd harmonic distortion lower than 0.05% over the whole working range.

The ND3SN neodymium magnet assembly has been designed to obtain 21KGauss in the gap for major benefits in transient response. The motor structure, throughout the precisely coherent proprietary designed metal alloy phase plug with 4 circumferential slots and copper ring on the pole piece, reduces inductance effect and distortion.

The diaphragm kit self-centering design allows high precision mounting and at the same time makes very easy the servicing procedure.

The ability to perform properly under inclement weather conditions is a key point of the Eighteen Sound philosophy. Hence, a special treatment is applied to the magnet and the top and back plates of the magnetic structure in order to make the driver more resistant to the corrosive effects of salts and oxidization. This treatment is more effective than any other coating commonly used.

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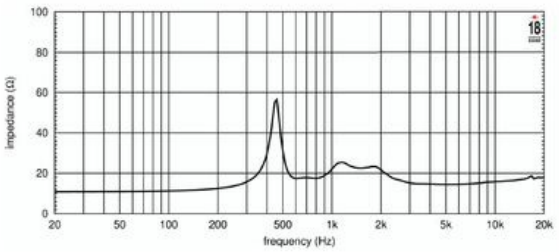

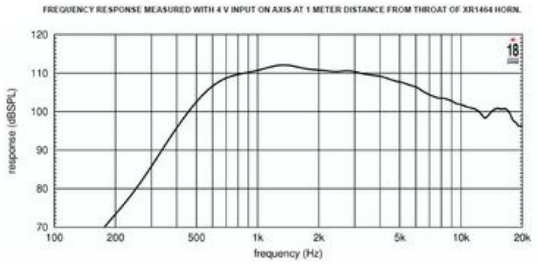

SPECIFICATIONS[1]

Throat Diameter	36 mm (1.4 in)
Nominal Impedance	16 Ω
Minimum Impedance	14.1 Ω
Nominal Power Handling[2]	120 W
Continuous Power Handling[3]	240 W
Sensitivity[4]	112.0 dB
Frequency Range	0.8 - 20.0 kHz
Recommended Crossover[5]	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Diaphragm Material	Nitride coated Titanium
Flux Density	2.1 T

MOUNTING AND SHIPPING INFO

Overall Diameter	120 mm (4.72 in)
Depth	53 mm (2.09 in)
Net Weight	2.3 kg (5.07 lb)
Shipping Box	165x150x65 mm (6.50x5.91x2.56 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.

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