# **Oberton 18 NXB 1600**



## **KEY FEATURES**

- 97 db 1W / 1m average sensitivity
- 115 mm ( 4.5") high temperature sandwich voice coil
- 3200 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Double aluminium demodulating rings for lower distortion and improved heat dissipation
- Two double silicone spiders for improved excursion control and linearity
- Water protected cone

## **Application : High power bass**

The **18NXB1600** neodymium bass loudspeaker is specially designed to deliver very high impact bass response, with exceptional high power capacity. It incorporates an 4.5`` sandwich voice coil, two double silicone spider assembly, kevlar paper cone and die cast vented aluminium frame. Powerful, vented neodymium magnetic structure with massive heatsink and double demodulating rings reduced power compression. The result is high efficient transducer for subwoofer applications, with the ability to handle very high excursion with low distortion and reduced thermal power compression.

### SPECIFICATIONS

Nominal Diameter
Impedance
Minimum Impedance
Power Capacity AES 1
Program Power <sup>2</sup>
Sensitivity
Frequency Range
Voice Coil Diameter
Voice Coil Material
Voice Coil Former
Voice Coil Winding Depth
Magnet Gap Depth
Cone Material
Basket
Magnet
Flux Density

18"/461 inch/mm 8 Ohm 6.8 Ohm 1600 W 3200 W (50-200 Hz) 97 dB/W/m 30 - 1000 Hz 115 mm (4.5") Copper Glassfiber 34 mm 14 mm Kevlar paper Die cast aluminium Neodymium 1.1 T

#### THIELE-SMALL PARAMETERS

32.37 Hz
5.11
0.332
0.303
173.11 Litres
261.56 grams
5.30 Ohms
1158 cm²
± 13.5 mm
0.0924 mm/N
29.58 T.m
1.20 mH

#### MOUNTING INFORMATION

Overall Diameter	461 mm
Baffle Hole Diameter	416 mm
Number of Mounting Holes	8 eliptic 7 x 8,5 mm
Bolt Circle Diameter	438/441 mm
Overall Depth	224 mm
Net Weight	11.7 kg

 AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.
Program power is defined as 3db greater than AES Power Capacity.

\* Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.

Frequency Responce



