Oberton 18 XB 800



KEY FEATURES:

- 97.5 db 1W / 1m average sensitivity
- 100 mm high temperature sandwich voice coil
- 2200 W AES program power
- Powerful, vented 220 mm magnet structure
- Aluminium demodulating ring for lower distortion and improved heat dissipation
- Double silicone spider for improved excursion control and linearity
- Water protected cone

Application: High Power Bass

The **18XB800** bass loudspeaker is specially designed to deliver high impact bass response, with exceptional high power capacity. It incorporates an 30 mm long, 4` sandwich voice coil, kevlar paper cone, a powerful, vented 220 mm magnetic structure with higher energy than 18XB700, die cast vented aluminium frame which reduced power compression, and double silicone spider assembly. This results in an incredible high efficient transducer for subwoofer applications, with the ability to handle high excursion with low distortion and reduced thermal power compression.

SPECIFICATIONS

Nominal Diameter 18"/461 inch/mm
Impedance 8 Ohm
Minimum Impedance 6.95 Ohm
Power Capacity AES ¹ 1100 W
Program Power ² 2200 W

Sensitivity (50-200 Hz) 97.5 dB/W/m

Frequency Range 35 - 500 Hz
Voice Coil Diameter 100 mm
Voice Coil Material Copper
Voice Coil Former Glassfiber
Voice Coil Winding Depth 30 mm
Magnet Gap Depth 14 mm

Cone Material Water protected Kevlar paper

Basket Die cast aluminium

Magnet Ferrite
Flux Density 1.00 T

THIELE-SMALL PARAMETERS

Resonance Frequency 35.83 Hz Mechanical Efficiency Factor (Qms) 8.76 Electrical Efficiency Factor (Qes) 0.353 Total Q (Qts) 0.339 Equivalent Air Volume (Vas) 162.78 Litres Diaphragm mass ind. airload (Mms) 208.66 grams Voice Coil Resistance Re 5.02 Ohms Effective Diagram Area (Sd) **1110** cm² Peak Linear Displacement of Diaphragm (Xmax)* ± 11.5 mm Mechanical Compliance of Suspension (Cms) 0.0893 mm/N BL Product (BL) 27.85 T.m V.C. Inductance at 1 kHz (Le) 1.87 mH

1. 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.

- 2. 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.

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 202.5 mm

Net Weight 12.9 kg

Frequency Responce



