

Oberton 15 NXB 700

KEY FEATURES:



- 97 db 1W / 1m average sensitivity
- 100 mm high temperature sandwich voice coil
- 2000 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Triple aluminium demodulating rings for lower distortion and improved heat dissipation
- Double silicon spider for improved excursion control and linearity
- Water protected cone (front)

Application: Power bass

The 15NXB700 is neodymium bass loudspeaker designed to deliver high impact bass response, with exceptional high power capacity. It features 25 mm high sandwich voice coil, aluminium die cast frame with integrated triple aluminium demodulating rings and vented neodymium magnet structure. The massive heatsink improve the cooling of the magnet structure, which reduce power compression. 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. It is suitable for tuned reflex or horn loaded enclosures for high level subwoofer applications.

SPECIFICATIONS

Nominal Diameter	15"/388 inch/mm
Impedance	8 Ohm
Minimum Impedance	7.23 Ohm
Power Capacity AES ¹	1000 W
Program Power ²	2000 W
Sensitivity	(50-1000 Hz) 97 dB/W/m
Frequency Range	38 - 1000 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	25 mm
Magnet Gap Depth	14 mm
Cone Material	Kevlar paper
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.00 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 125 L box enclosure tuned 56 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: $(H_{vc} - H_g)/2 + H_g/4$ where Hvc is the voice coil depth and Hg is the gap depth.

THIELE-SMALL PARAMETERS

Resonance Frequency	38.34 Hz
Mechanical Efficiency Factor (Qms)	8.75
Electrical Efficiency Factor (Qes)	0.293
Total Q (Qts)	0.283
Equivalent Air Volume (Vas)	105.50 litres
Diaphragm mass ind. airload (Mms)	156.94 grams
Voice Coil Resistance Re	5.23 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±9 mm
Mechanical Compliance of Suspension (Cms)	0.11 mm/N
BL Product (BL)	25.99 T.m
V.C. Inductance at 1 kHz (Le)	1.98 mH

MOUNTING INFORMATION

Overall Diameter	388 mm
Baffle Hole Diameter	354 mm
Number of Mounting Holes	8 elliptic 7x8 mm
Bolt Circle Diameter	370/372 mm
Overall Depth	195 mm
Net Weight	8.1 kg

Frequency Responce

