

# Oberton 15 NMB 600



## KEY FEATURES:

- 100 db 1W / 1m average sensitivity
- 100 mm high temperature voice coil
- 1200 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Triple aluminium demodulating rings for lower distortion and improved heat dissipation
- Double silicone spider for improved excursion control and linearity

## Application : High power midbass

15NMB600 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 100 mm copper voice coil and double silicone spider. It features aluminium die cast frame with integrated triple demodulating rings and vented neodymium magnet structure. The massive heatsink improve the cooling of the magnet structure, which reduce power compression. 15NMB600 is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way boxes and also it is suitable for horn loaded systems.

## SPECIFICATIONS

Nominal Diameter	15"/388 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.25 Ohm
Power Capacity AES <sup>1</sup>	600 W
Program Power <sup>2</sup>	1200 W
Sensitivity	(200-2000 Hz) 100 dB/W/m
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Kapton™
Voice Coil Winding Depth	15 mm
Magnet Gap Depth	9 mm
Cone Material	Paper with Kevlar
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.45 T

## THIELE-SMALL PARAMETERS

Resonance Frequency	43.25 Hz
Mechanical Efficiency Factor (Qms)	7.22
Electrical Efficiency Factor (Qes)	0.178
Total Q (Qts)	0.174
Equivalent Air Volume (Vas)	145.15 litres
Diaphragm mass ind. airload (Mms)	89.65 grams
Voice Coil Resistance Re	5.49 Ohms
Effective Diaphragm Area (Sd)	830 cm <sup>2</sup>
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.151 mm/N
BL Product (BL)	27.43 T.m
V.C. Inductance at 1 kHz (Le)	1.01 mH

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:  $(Hvc - Hg)/2 + Hg/4$  where Hvc is the voice coil depth and Hg is the gap depth.

## 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	198.3 mm
Net Weight	7.9 kg

## Frequency Responce

