Oberton 8 NB 201

KEY FEATURES:

- **95 db 1W / 1m average sensitivity**
- **51 mm high temperature voice coil**
- **400 W AES program power**
- **Water protected cone (front)**

Application : Power midbass speaker

The **8NB201** is high efficiency, high power midbass neodymium loudspeaker , specially designed to use in compact bass reflex boxes. It features 51 mm cooper voice coil, aluminium die cast frame with powerful neodymium magnet structure, which achieved very light weight of the speaker.

SPECIFICATIONS

Nominal Diameter	8"/210 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.40 Ohm
Power Capacity AES [1]	200 W
Program Power [2]	400 W
Sensitivity	(200-2000 Hz) 95 dB/W/m
Frequency Range	65 – 3000 Hz
Voice Coil Diameter	51 mm
Voice Coil Material	Cooper
Voice Coil Former	Kapton™
Voice Coil Winding Depth	14 mm
Magnet Gap Depth	7 mm
Cone Material	Paper with glassfiber
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.25 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 18 l box enclosure tuned 82 Hz using a 60-2000 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.*

THIELE-SMALL PARAMETERS

Resonance Frequency	70.56 Hz
Mechanical Efficiency Factor (Qms)	5.97
Electrical Efficiency Factor (Qes)	0.255
Total Q (Qts)	0.245
Equivalent Air Volume (Vas)	12.54 Litres
Diaphragm mass ind. airload (Mms)	22.67 grams
Voice Coil Resistance Re	5.27 Ohms
Effective Diagram Area (Sd)	202 cm2
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.224 mm/N
BL Product (BL)	14.41 T.m
V.C. Inductance at 1 kHz (Le)	0.96 mH

MOUNTING INFORMATION

Overall Diameter	225 mm
Baffle Hole Diameter	187 mm
Number of Mounting Holes	8 with dia. 6.5 mm
Bolt Circle Diameter	210 mm
Overall Depth	89 mm
Net Weight	2.38 kg

Frequency Responce