Oberton 12 NB 400



KEY FEATURES:

- 98 db 1W / 1m average sensitivity
- 77 mm high temperature voice coil
- 900 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Triple aluminium demodulating rings for lower distortion and improved heat dissipation
- Silicone spider

Application: High Power Midbass

12NB400 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 77 mm aluminium voice coil and 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. 12NB400 is suitable for application as LF driver in compact 2- way boxes, and small stage monitors.

SPECIFICATIONS

Flux Density

12"/315 inch/mm	Resonance Frequency
8 Ohm	Mechanical Efficiency Factor (Qms)
6.96 Ohm	Electrical Efficiency Factor (Qes)
450 W	Total Q (Qts)
900 W	Equivalent Air Volume (Vas)
(200 -2000 Hz) 98 dB/W/m	Diaphragm mass ind. airload (Mms)
50 - 2000 Hz	Voice Coil Resistance Re
77 mm	Effective Diagram Area (Sd)
Aluminium	Peak Linear Displacement of Diaphragm (Xmax)*
Kapton™	Mechanical Compliance of Suspension (Cms)
15 mm	BL Product (BL)
9 mm	V.C. Inductance at 1 kHz (Le)
Paper with glassfiber	
Die Cast Aluminium	
Neodymium	
	8 Ohm 6.96 Ohm 450 W 900 W (200 -2000 Hz) 98 dB/W/m 50 - 2000 Hz 77 mm Aluminium Kapton™ 15 mm 9 mm Paper with glassfiber Die Cast Aluminium

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 65 L box enclosure tuned 63 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

1.45 T

- 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	43.58 Hz
Mechanical Efficiency Factor (Qms)	10.39
Electrical Efficiency Factor (Qes)	0.183
Total Q (Qts)	0.180
Equivalent Air Volume (Vas)	70.45 litres
Diaphragm mass ind. airload (Mms)	59.82 grams
Voice Coil Resistance Re	5.00 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.196 mm/N
BL Product (BL)	20.34 T.m
V.C. Inductance at 1 kHz (Le)	0.83 mH

MOUNTING INFORMATION

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	180.3 mm
Net Weight	5.00 kg

Frequency Responce



