Oberton 10 NMB 300



KEY FEATURES:

- 99.5 db 1W / 1m average sensitivity
- 77 mm high temperature voice coil
- 800 W AES program power
- Vented neodymium magnet assembly • with massive heatsink
- Double aluminium demodulating ring for lower distortion and improved heat dissipation
- Water protected cone (front)

Application : Power midbass speaker

The **10NMB300** neodymium loudspeaker is primary designed to be used in medium and long throw horn loaded systems. The special Kevlar paper cone with water protection guarantees reliable using in horns with compression chamber with ratio up to 3.5:1. It features aluminium die cast frame with vented neodymium magnet structure. The massive heatsink improves the cooling of the magnet structure, which reduce power compression.

SPECIFICATIONS

Nominal Diameter			
Impedance			
Minimum Impedance			
Power Capacity AES 1			
Program Power ²			
Sensitivity			
Frequency Range			
Voice Coil Diameter			
Voice Coil Material			
Voice Coil Former			
Voice Coil Winding Depth			
Magnet Gap Depth			
Cone Material			
Basket			
Magnet			
Flux Density			

10"/262 inch/mm 8 Ohm 7.05 Ohm 400 W 800 W (200-2000 Hz) 99.5 dB/W/m 80 - 2500 Hz 77 mm Aluminium Kapton™ 15 mm 9 mm Kevlar Paper Die cast aluminium Neodymium 1.45 T

THIELE-SMALL PARAMETERS

Resonance Frequency	62.08 Hz
Mechanical Efficiency Factor (Qms)	10.61
Electrical Efficiency Factor (Qes)	0.216
Total Q (Qts)	0.212
Equivalent Air Volume (Vas)	22.06 Litres
Diaphragm mass ind. airload (Mms)	42.72 grams
Voice Coil Resistance Re	5.60 Ohms
Effective Diagram Area (Sd)	317.3 cm2
Peak Linear Displacement of Diaphragm (Xmax) st	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.154 mm/N
BL Product (BL)	20.76 T.m
V.C. Inductance at 1 kHz (Le)	0.66 mH

MOUNTING INFORMATION

Net Weight

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 30 L box enclosure tuned 60 Hz using a 50-1000 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.

Overall Diameter 262 mm Baffle Hole Diameter 228 mm Number of Mounting Holes 8 with dia. 7 mm Bolt Circle Diameter 244 mm Overall Depth 148.3 mm 4.75 ka

Frequency Responce



