Oberton 10 MB 300



KEY FEATURES:

- 99 db 1W / 1m average sensitivity
- 77 mm high temperature aluminium voice coil
- 800 W AES program power
- Powerful, ferrite 180 mm magnet structure

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Application: Power midbass speaker

The **10MB300** loudspeaker is primary designed to be used in medium and long throw horn loaded systems. The special Kevlar paper cone guarantees reliable using in horns with compression chamber with ratio up to 3.5:1.

SPECIFICATIONS

Nominal Diameter 10"/262 inch/mm
Impedance 8 Ohm
Minimum Impedance 6.52 Ohm
Power Capacity AES 1 400 W
Program Power 2 800 W
Sensitivity (200, 2000 Hz) ps

Sensitivity (200-2000 Hz) 99 dB/W/m

Frequency Range 80 - 2500 Hz Voice Coil Diameter 77 mm Voice Coil Material Aluminium Voice Coil Former Kapton™ Voice Coil Winding Depth 15 mm Magnet Gap Depth 9 mm Cone Material Kevlar Paper Basket Die cast aluminium

Magnet Feritte
Flux Density 1.33 T

THIELE-SMALL PARAMETERS

Resonance Frequency	64.70 Hz
Mechanical Efficiency Factor (Qms)	9.66
Electrical Efficiency Factor (Qes)	0.251
Total Q (Qts)	0.244
Equivalent Air Volume (Vas)	22.75 Litres
Diaphragm mass ind. airload (Mms)	38.13 grams
Voice Coil Resistance Re	5.43 Ohms
Effective Diagram Area (Sd)	317.3 cm2
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.159 mm/N
BL Product (BL)	18.32 T.m
V.C. Inductance at 1 kHz (Le)	0.72 mH

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.

MOUNTING INFORMATION

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	120 mm
Net Weight	6.8 kg

Frequency Responce



