Oberton 10 M 300



KEY FEATURES:

- 100 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 midrange speaker

The **10M300** loudspeakers is designed as a power midrange speaker, providing high output, low distortion midrange from 250Hz to 3,5 kHz. It features aluminium die cast frame, 180 mm magnet structure and curvilinear cone. **10M300** is suitable for application as the high power midrange in 3 way boxes including horn loading application.

SPECIFICATIONS

Nominal Diameter	10"/262 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.67 Ohm
Power Capacity AES ¹	400 W
Program Power ²	800 W
Sensitivity	(200-3000 Hz) 100dB/W/m
Frequency Range	75-3500 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Aluminium

Voice Coil Diameter 77 mm

Voice Coil Material Aluminiu

Voice Coil Former Kapton™

Voice Coil Winding Depth 15 mm

Magnet Gap Depth 9 mm

Cone Material Paper

Basket Die cast aluminium

Magnet Ferrite Flux Density 1.33 T

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.

THIELE-SMALL PARAMETERS

Resonance Frequency	59.79 Hz
Mechanical Efficiency Factor (Qms)	8.47
Electrical Efficiency Factor (Qes)	0.255
Total Q (Qts)	0.248
Equivalent Air Volume (Vas)	19.43 Litres
Diaphragm mass ind. airload (Mms)	32.30 grams
Voice Coil Resistance Re	5.48 Ohms
Effective Diagram Area (Sd)	317.3 cm2
Peak Linear Displacement of Diaphragm (Xmax)*	± 5.25 mm
Mechanical Compliance of Suspension (Cms)	0.136 mm/N
BL Product (BL)	18.22 T.m
V.C. Inductance at 1 kHz (Le)	0.60 mH

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



