Oberton 10 M 250



KEY FEATURES:

- 97 db 1W / 1m average sensitivity
- 64 mm high temperature aluminium voice coil
- 500 W AES program power
- Powerful, ferrite 169 mm magnet structure

Application: Power midrange speaker

The **10M250** loudspeakers is designed as a power midrange speaker, providing high output and low distortion midrange from 250 Hz to 3 kHz. It features aluminium die cast frame, 169 mm magnet structure and curvilinear cone. **10M250** 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	7.17 Ohm
Power Capacity AES 1	250 W
Program Power ²	500 W
Sensitivity	(500-5000 Hz) 97 dB/W/m
Frequency Range	70 - 5000 Hz
Voice Coil Diameter	64 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	10 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.40 T

THIELE-SMALL PARAMETERS

Resonance Frequency	76.65 Hz
Mechanical Efficiency Factor (Qms)	14.62
Electrical Efficiency Factor (Qes)	0.285
Total Q (Qts)	0.280
Equivalent Air Volume (Vas)	23.05 Litres
Diaphragm mass ind. airload (Mms)	26.82 grams
Voice Coil Resistance Re	6.09 Ohms
Effective Diagram Area (Sd)	317.3 cm2
Peak Linear Displacement of Diaphragm (Xmax)*	± 2.75 mm
Mechanical Compliance of Suspension (Cms)	0.161 mm/N
BL Product (BL)	16.61 T.m
V.C. Inductance at 1 kHz (Le)	0.60 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	122.5 mm
Net Weight	6.6 kg

Frequency Responce



