

# Oberton 10 M 150



## KEY FEATURES:

- 99 db 1W / 1m average sensitivity
- 51 mm high temperature aluminium voice coil
- 300 W AES program power
- Ferrite 134 mm magnet structure

## Application : Midbass with extended midrange

The **10M150** loudspeaker is combining good efficiency and 150W power capacity with use of 51 mm aluminium voice coil. It features aluminium die cast frame, 134 mm magnet structure and curvilinear paper cone. **10M150** is intended for use as the mid/bass component in compact 2 - way systems, or as a direct radiating midrange speaker in 3 way boxes.

## SPECIFICATIONS

Nominal Diameter	10"/262mm
Impedance	8 Ohm
Minimum Impedance	5.25 Ohm
Power Capacity AES <sup>1</sup>	150 W
Program Power <sup>2</sup>	300 W
Sensitivity	(200-5000 Hz) 99 dB/W/m
Frequency Range	75 - 6000 Hz
Voice Coil Diameter	51 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	10 mm
Magnet Gap Depth	7 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.35 T

## THIELE-SMALL PARAMETERS

Resonance Frequency	74 Hz
Mechanical Efficiency Factor (Qms)	8.89
Electrical Efficiency Factor (Qes)	0.45
Total Q (Qts)	0.43
Equivalent Air Volume (Vas )	25.9 Litres
Diaphragm mass ind. airload (Mms)	25.54 Grams
Voice Coil Resistance Re	5.15 Ohms
Effective Diaphragm Area (Sd)	317.3 cm <sup>2</sup>
Peak Linear Displacement of Diaphragm (Xmax)*	+/- 3.25 mm
Mechanical Compliance of Suspension (Cms)	0.18 mm/N
BL Product (BL)	11.62 T.m
V.C. Inductance at 1 kHz (Le)	0.88 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	113 mm
Net Weight	3.45 kg

# Frequency Responce

