

Oberton 6 M 150



KEY FEATURES:

- **96 db 1W / 1m average sensitivity**
- **44 mm high temperature cooper voice coil**
- **300 W AES program power**
- **Ferrite 121 mm magnet structure**
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Application : Power midrange speaker

The **6M150** is high efficiency, high power midrange loudspeaker , specially designed to use in 3 way boxes and line array systems. It features 44 mm aluminium voice coil, vented aluminium die cast frame with powerful 121 mm ferrite magnet structure, which achieved compact size of the speaker.

SPECIFICATIONS

Nominal Diameter	6.5"/170 mm
Impedance	8 Ohm
Minimum Impedance	7 Ohm
Power Capacity AES ¹	150 W
Program Power ²	300 W
Sensitivity	(500-5000 Hz) 96 dB/W/m
Frequency Range	200 - 5000 Hz
Voice Coil Diameter	44 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	8 mm
Magnet Gap Depth	7 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.2 T

THIELE-SMALL PARAMETERS

Resonance Frequency	115.1 Hz
Mechanical Efficiency Factor (Qms)	5.46
Electrical Efficiency Factor (Qes)	0.457
Total Q (Qts)	0.422
Equivalent Air Volume (Vas)	5.35 Litres
Diaphragm mass ind. airload (Mms)	10.22 grams
Voice Coil Resistance Re	6.21 Ohms
Effective Diagram Area (Sd)	139 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 2.25 mm
Mechanical Compliance of Suspension (Cms)	0.187 mm/N
BL Product (BL)	10.02 T.m
V.C. Inductance at 1 kHz (Le)	0.438 mH

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 9 L box enclosure tuned 70 Hz using a 100 - 2000 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	185 mm
Baffle Hole Diameter	145 mm
Number of Mounting Holes	4 elliptic 5.5/6.5 mm
Bolt Circle Diameter	170/172 mm
Overall Depth	90 mm
Net Weight	2.5 kg

Frequency Responce

