

Oberton 8 M 150



KEY FEATURES:

- 98 db 1W / 1m average sensitivity
- 51 mm high temperature aluminium voice coil
- 300 W AES program power
- Ferrite 134 mm magnet structure
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Application : Midrange speaker

The **8M150** loudspeaker is combining good efficiency and 150W power capacity with use of 51 mm voice coil. It features aluminium die cast frame, 134 mm magnet structure and curvilinear paper cone. **8M150** is intended for use as a direct radiating midrange speaker in compact 3 way boxes.

SPECIFICATIONS

Nominal Diameter	8"/203mm
Impedance	8 Ohm
Minimum Impedance	5.83 Ohm
Power Capacity AES ¹	150 W
Program Power ²	300 W
Sensitivity	(200-4000 Hz) 98 dB/W/m
Frequency Range	80 - 5000 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	68.2 Hz
Mechanical Efficiency Factor (Qms)	6.07
Electrical Efficiency Factor (Qes)	0.225
Total Q (Qts)	0.217
Equivalent Air Volume (Vas)	21.62 Litres
Diaphragm mass ind. airload (Mms)	14.07 Grams
Voice Coil Resistance Re	5.05 Ohms
Effective Diagram Area (Sd)	202 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	+/- 3.25 mm
Mechanical Compliance of Suspension (Cms)	0.387 mm/N
BL Product (BL)	11.62 T.m
V.C. Inductance at 1 kHz (Le)	0.74 mH

MOUNTING INFORMATION

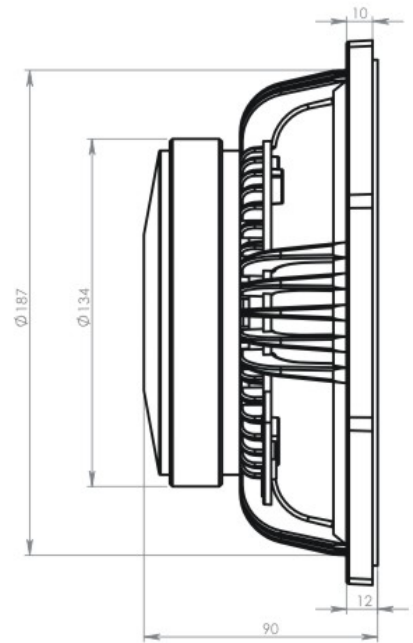
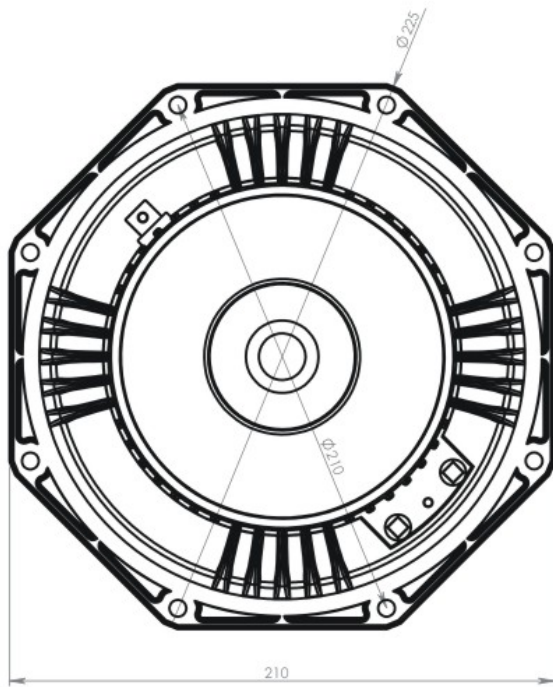
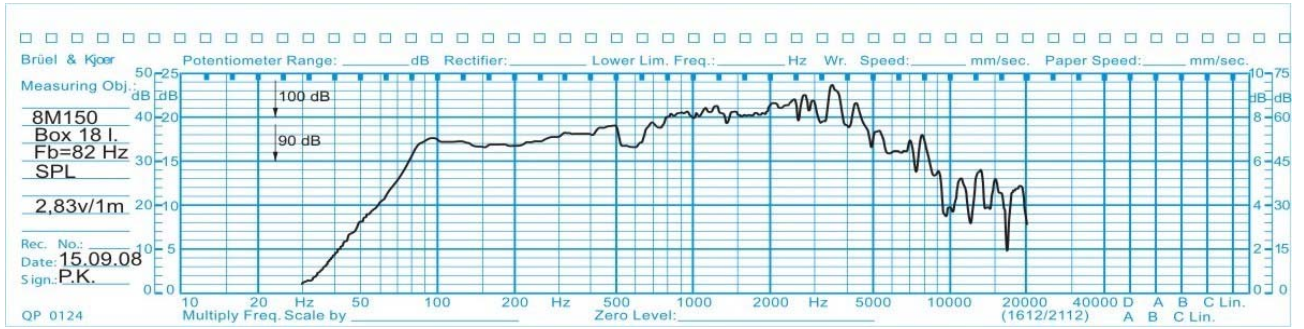
Overall Diameter	225 mm
Baffle Hole Diameter	187 mm
Number of Mounting Holes	8 with dia. 6.5 mm
Bolt Circle Diameter	210 mm
Overall Depth	90 mm
Net Weight	3.25 kg

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 18 L box enclosure tuned 82 Hz using a 60 - 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.

Frequency Response



OBERTON	
model:	8M150