



**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**

**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 <sup>1</sup>	150 W
Program Power <sup>2</sup>	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

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.

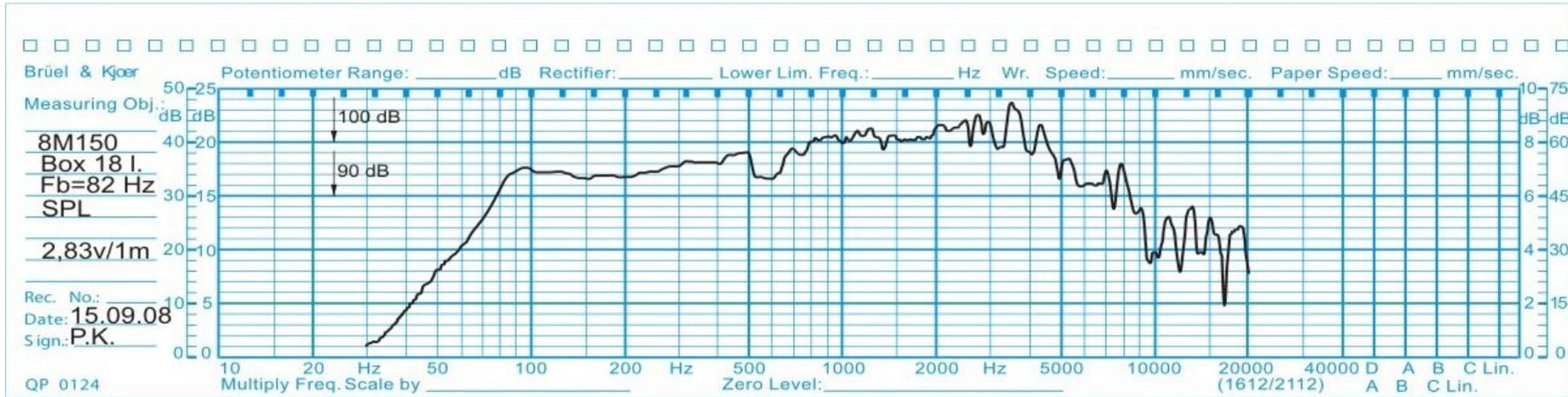
\* Linear Mathematical Xmax is calculated as:  $(H_{vc} - H_g)/2 + H_g/4$  where  $H_{vc}$  is the voice coil depth and  $H_g$  is the gap depth.

## THIELE-SMALL PARAMETERS

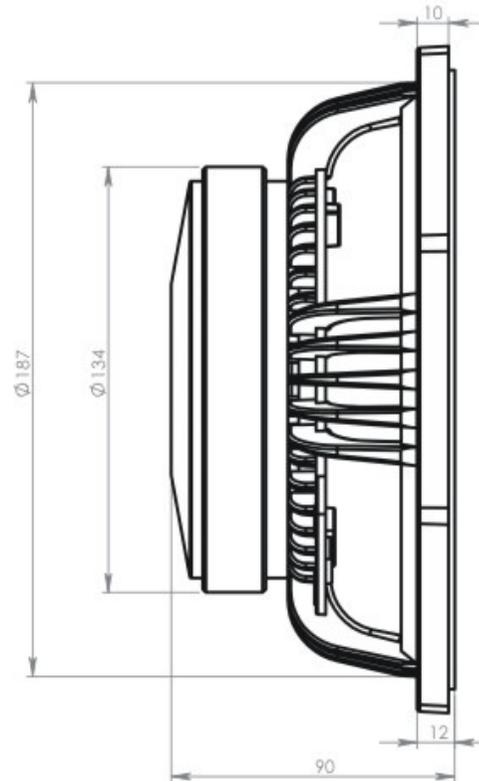
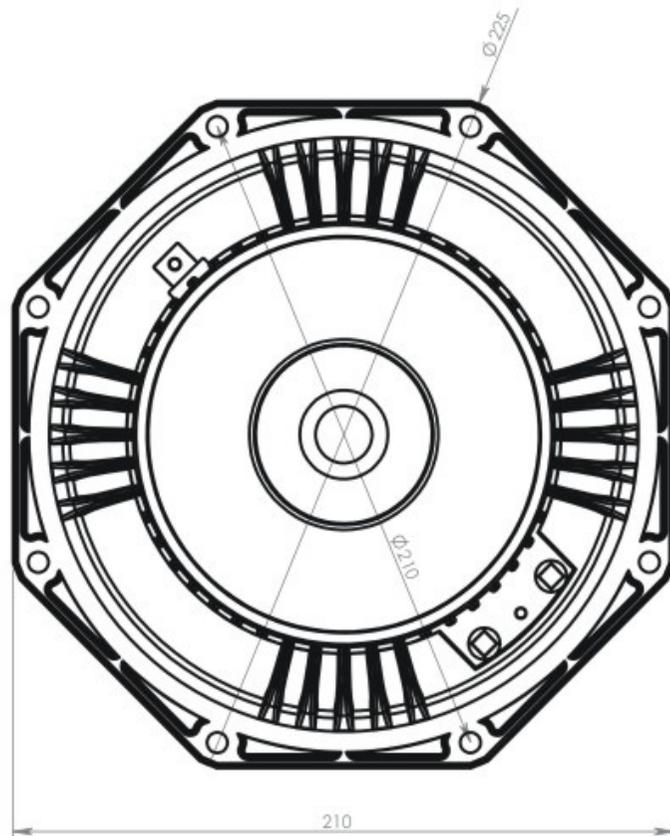
Resonance Frequency	68.2 Hz
Mechanical Efficiency Factor (Qms)	6.07
Electrical Efficiency Factor (Qes)	0.225
Total Q (Qts)	0.217
Equivalent Air Volume (Vas)	21.62 Litres
Diaphragm mass ind. airload (Mms)	14.07 Grams
Voice Coil Resistance Re	5.05 Ohms
Effective Diaphragm Area (Sd)	202 cm <sup>2</sup>
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



Frequency Responce



	OBERTON
model:	8M150