OBERTON
Professional Loudspeakers

KEY FEATURES:

101 db 1W / 1m average sensitivity
51 mm high temperature voice coil
400 W AES program power

Application : Power midrange speaker

The **8NM200** is high efficiency, high power midrande neodymium loudspeaker , specially designed to provide superior sound pressure level. It features 51 mm aluminium voice coil, aluminium die cast frame with powerful neodymium magnet structure. It is suitable for application as high power midrange in direct radiating and horn loaded boxes.

OBERTON
Professional Loudspeakers

SPECIFICATIONS

Nominal Diameter	8"/210 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.40 Ohm
Power Capacity AES [1]	200 W
Program Power [2]	400 W
Sensitivity	(200-2000 Hz) 101 dB/W/m
Frequency Range	100 – 4000 Hz
Voice Coil Diameter	51 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	10 mm
Magnet Gap Depth	9 mm
Cone Material	Paper with glassfiber
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.55T

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.*

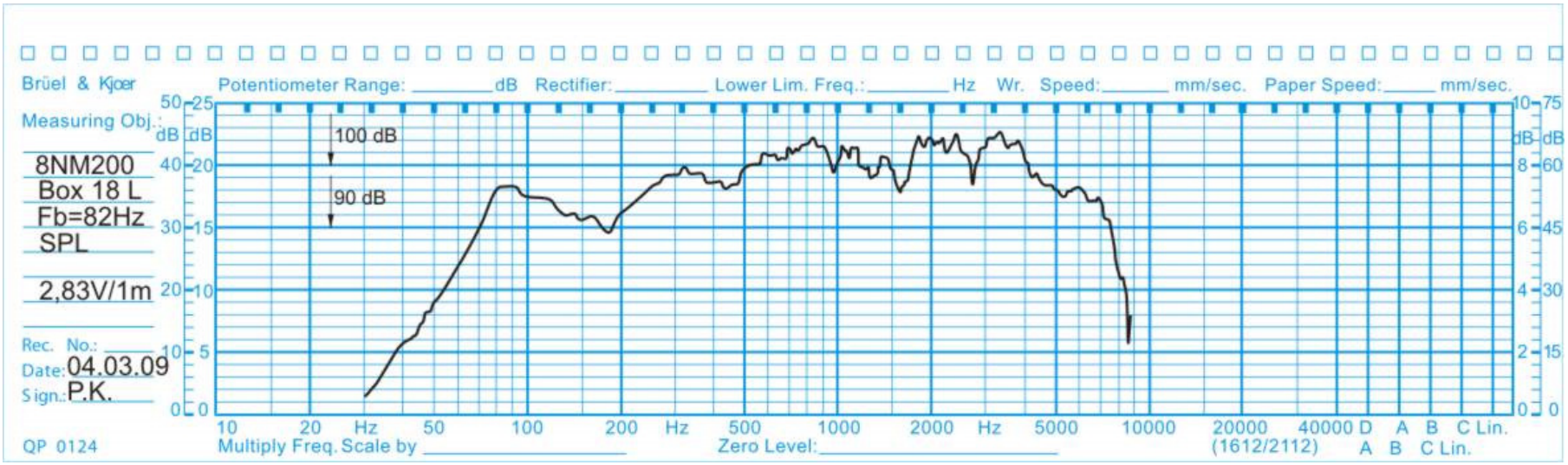
THIELE-SMALL PARAMETERS

Resonance Frequency	83.90 Hz
Mechanical Efficiency Factor (Qms)	11.30
Electrical Efficiency Factor (Qes)	0.208
Total Q (Qts)	0.204
Equivalent Air Volume (Vas)	12.11 Litres
Diaphragm mass ind. airload (Mms)	16.60 grams
Voice Coil Resistance Re	5.25 Ohms
Effective Diagram Area (Sd)	202 cm2
Peak Linear Displacement of Diaphragm (Xmax)*	±2.75 mm
Mechanical Compliance of Suspension (Cms)	0.217 mm/N
BL Product (BL)	14.88 T.m
V.C. Inductance at 1 kHz (Le)	0.37 mH

MOUNTING INFORMATION

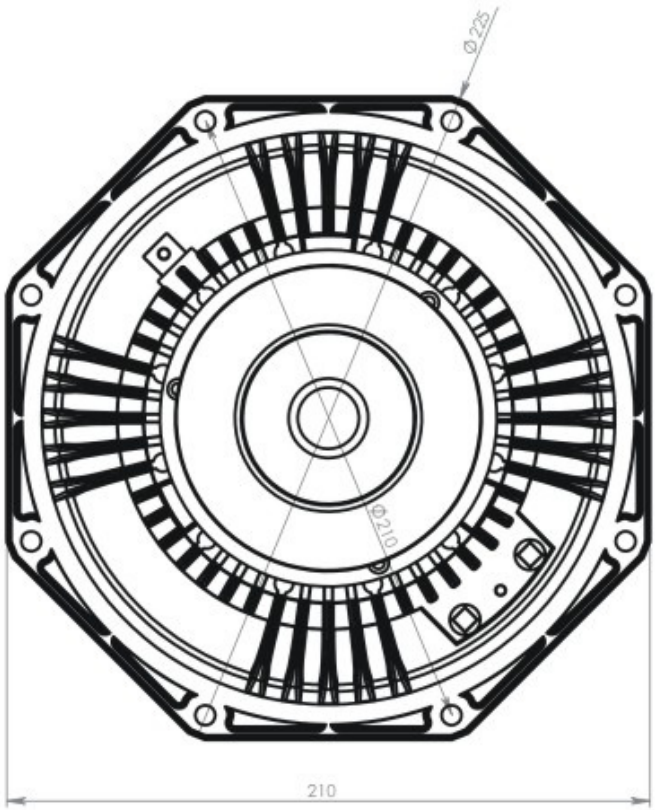
Overall Diameter	225 mm
Baffle Hole Diameter	187 mm
Number of Mounting Holes	8 with dia. 6.5 mm
Bolt Circle Diameter	210 mm
Overall Depth	81.5 mm
Net Weight	2.00 kg

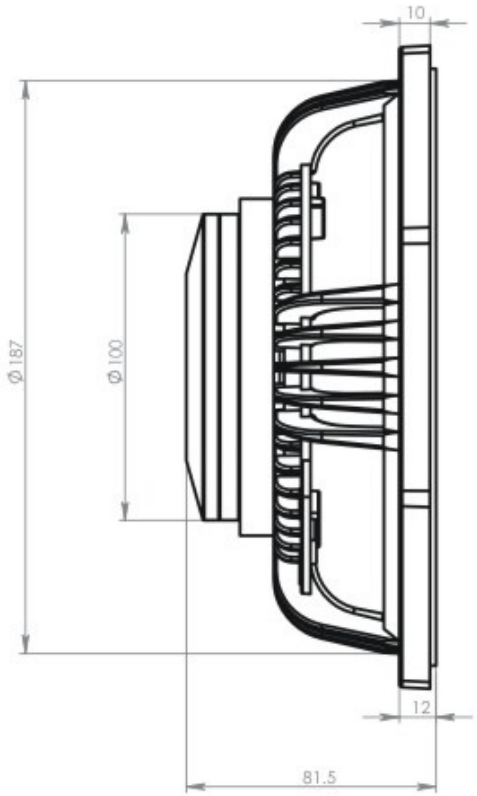
OBERTON
Professional Loudspeakers



Frequency Responce

OBERTON
Professional Loudspeakers





OBERTON	
model:	8NM200