



Application : Power bass speaker

The **6NB150** is high efficiency, high power bass neodymium loudspeaker, specially designed to use in compact bass reflex boxes. It features 38 mm cooper voice coil, vented aluminium die cast frame with powerful neodymium magnet structure, which achieved very light weight of the speaker.

KEY FEATURES:

92 db 1W / 1m average sensitivity

38 mm high temperature voice coil

300 W AES program power

Water protected cone (front)

SPECIFICATIONS

Nominal Diameter	6.5"/170 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.35 Ohm
Power Capacity AES ¹	150 W
Program Power ²	300 W
Sensitivity	(200-2000 Hz) 92 dB/W/m
Frequency Range	60 – 3000 Hz
Voice Coil Diameter	38 mm
Voice Coil Material	Cooper
Voice Coil Former	Kapton™
Voice Coil Winding Depth	14 mm
Magnet Gap Depth	6 mm
Cone Material	Paper with glassfiber
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.37 T

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.

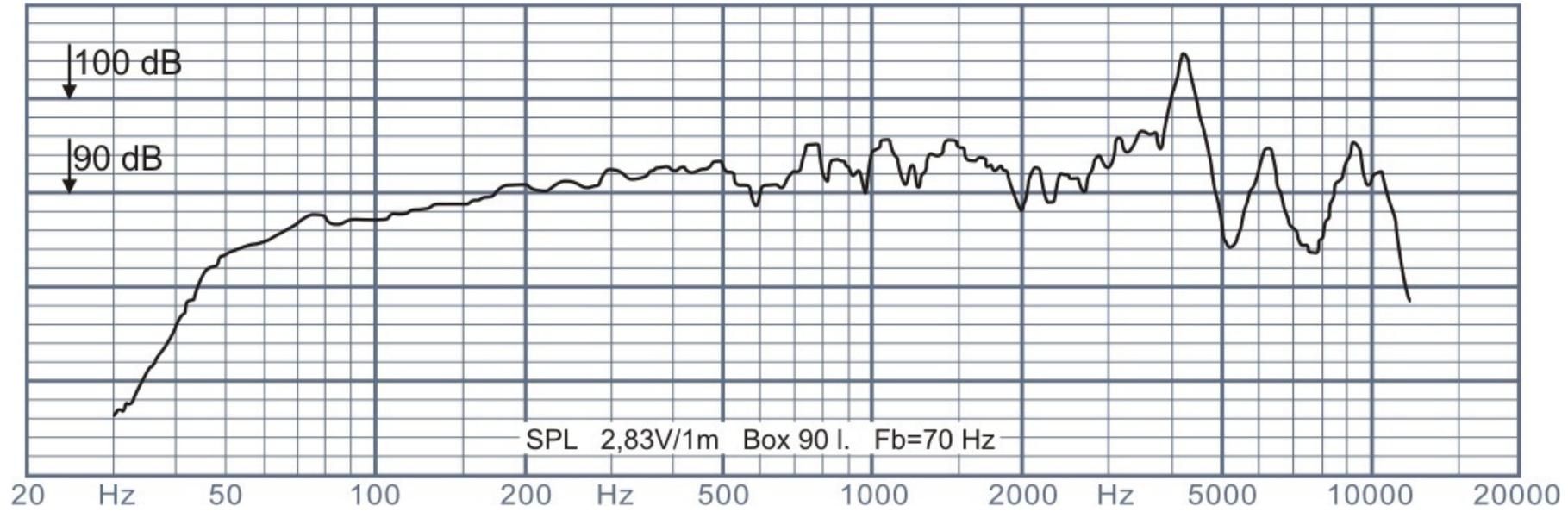
* Linear Mathematical Xmax is calculated as: $(Hvc - Hg)/2 + Hg/4$ where Hvc is the voice coil depth and Hg is the gap depth.

THIELE-SMALL PARAMETERS

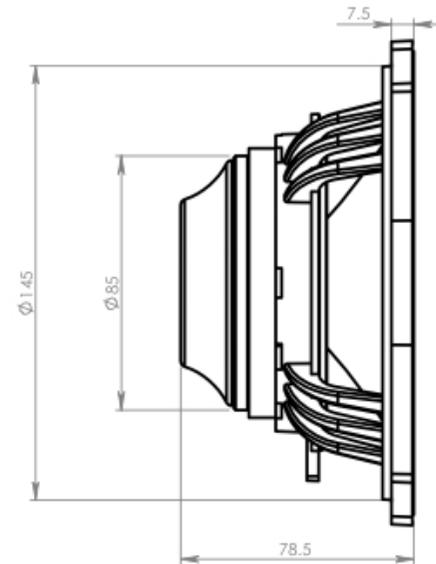
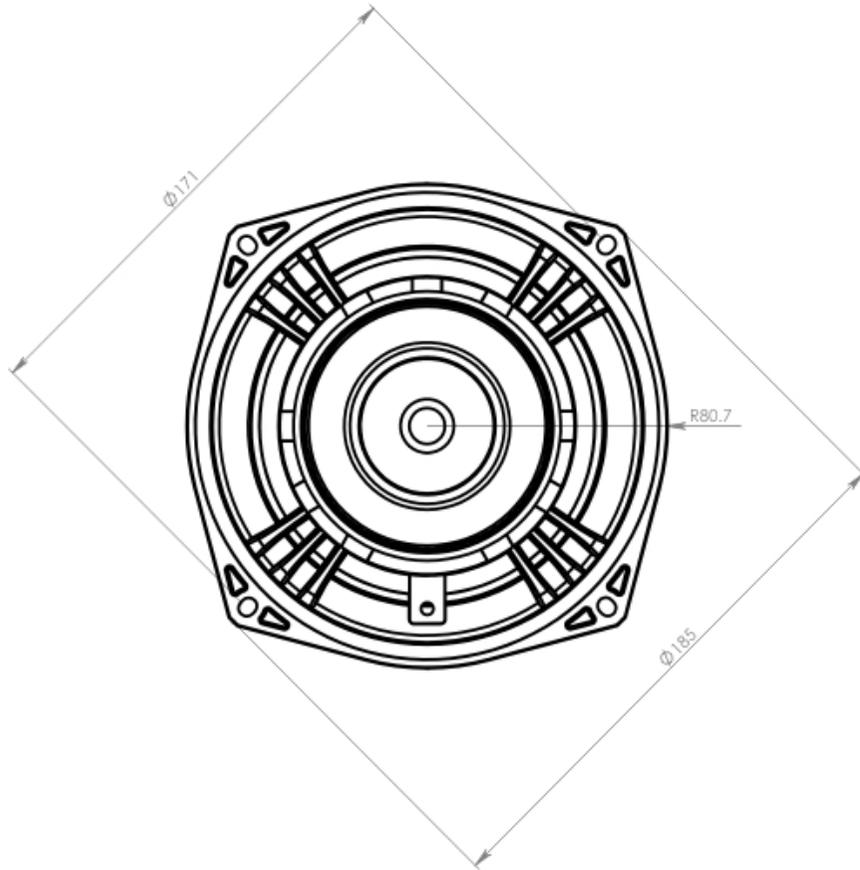
Resonance Frequency	62.32 Hz
Mechanical Efficiency Factor (Qms)	5.22
Electrical Efficiency Factor (Qes)	0.296
Total Q (Qts)	0.28
Equivalent Air Volume (Vas)	9.3 Litres
Diaphragm mass ind. airload (Mms)	15.72 grams
Voice Coil Resistance Re	5.57 Ohms
Effective Diagram Area (Sd)	127 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±5.5 mm
Mechanical Compliance of Suspension (Cms)	0.415 mm/N
BL Product (BL)	10.77 T.m
V.C. Inductance at 1 kHz (Le)	0.65 mH

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	171 mm
Overall Depth	78.5 mm
Net Weight	1.25 kg



Frequency Responce



OBERTON

model: 6NB150

Dimensions are in mm

Scale: 1:2