



KEY FEATURES:

97 db 1W / 1m average sensitivity

44 mm high temperature voice coil

300 W AES program power

Application : Power midrange speaker

The **6NM150** is high efficiency, high power midrange neodymium 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 neodymium magnet structure, which achieved very light weight of the speaker.

SPECIFICATIONS

Nominal Diameter	6.5"/170 inch/mm
Impedance	8 Ohm
Minimum Impedance	7.22 Ohm
Power Capacity AES ¹	150 W
Program Power ²	300 W
Sensitivity	(500-5000 Hz) 97 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	Neodymium
Flux Density	1.42 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.

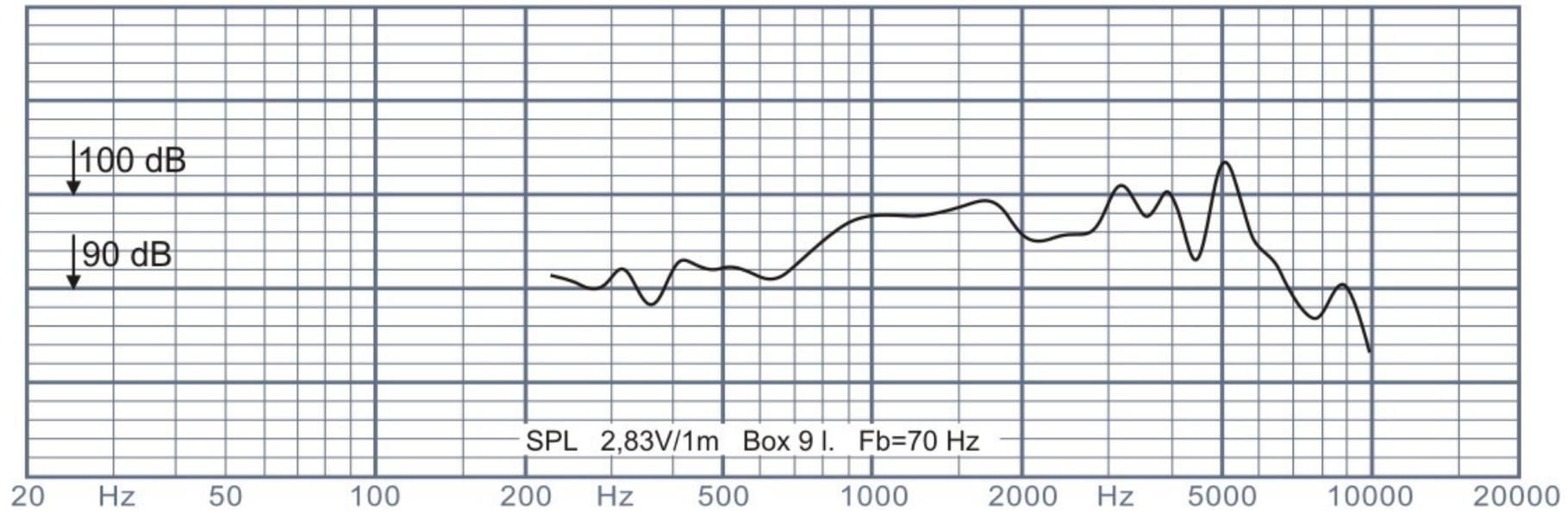
* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.

THIELE-SMALL PARAMETERS

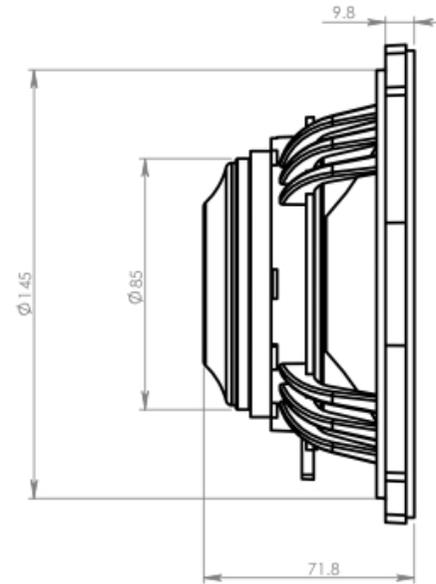
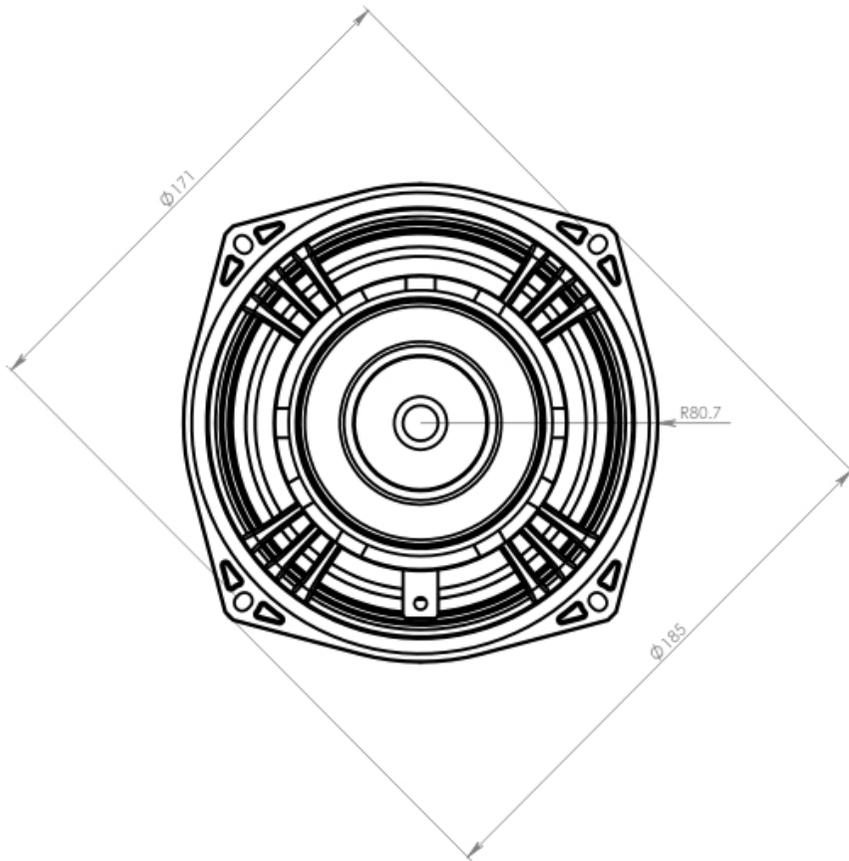
Resonance Frequency	124 Hz
Mechanical Efficiency Factor (Qms)	5.96
Electrical Efficiency Factor (Qes)	0.403
Total Q (Qts)	0.377
Equivalent Air Volume (Vas)	4.00 Litres
Diaphragm mass ind. airload (Mms)	11.08 grams
Voice Coil Resistance Re	6.25 Ohms
Effective Diagram Area (Sd)	139 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 2.25 mm
Mechanical Compliance of Suspension (Cms)	0.148 mm/N
BL Product (BL)	11.58 T.m
V.C. Inductance at 1 kHz (Le)	0.30 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	72 mm
Net Weight	1.05 kg



Frequency Responce



OBERTON	
model:	6NM150
Dimensions are in mm	Scale: 1:2