OBERTON
Professional Loudspeakers

KEY FEATURES:

99 db 1W / 1m average sensitivity
88 mm high temperature aluminium voice coil
1200 W AES program power
Vented neodymium magnet assembly with very light weight
Two aluminium demodulating rings for lower distortion and improved heat dissipation
Silicone spider
Water protected cone (front side)

Application : Midbass

The **12NMB35** loudspeaker is combining good linearity and efficiency with high power handling capabilities, with use of new 3.5” (88 mm) aluminium voice coil. It features vented aluminium die cast frame, neodymium magnet assembly with very light weight with two demodulating rings and curvilinear paper cone.**12NMB35** is suitable for application as LF driver in power stage monitors and 2- way PA boxes.

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SPECIFICATIONS

Nominal Diameter	12"/315 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.64 Ohm
Power Capacity AES [1]	600 W
Program Power [2]	1200 W
Sensitivity	(200 -2000 Hz) 99 dB/W/m
Frequency Range	50 - 3000 Hz
Voice Coil Diameter	88 mm
Voice Coil Material	Aluminium
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	19 mm
Magnet Gap Depth	11 mm
Cone Material	Paper with Kevlar + glass fibers
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.05 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 65 L box enclosure tuned 63 Hz using a 40-400 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	55.66 Hz
Mechanical Efficiency Factor (Qms)	10.316
Electrical Efficiency Factor (Qes)	0.332
Total Q (Qts)	0.322
Equivalent Air Volume (Vas)	40.97 Litres
Diaphragm mass ind. airload (Mms)	73.83 grams
Voice Coil Resistance Re	5.34 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±6.75 mm
Mechanical Compliance of Suspension (Cms)	0.111 mm/N
BL Product (BL)	20.37 T.m
V.C. Inductance at 1 kHz (Le)	0.757 mH

MOUNTING INFORMATION

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 elliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	156 mm
Net Weight	5.05 kg.

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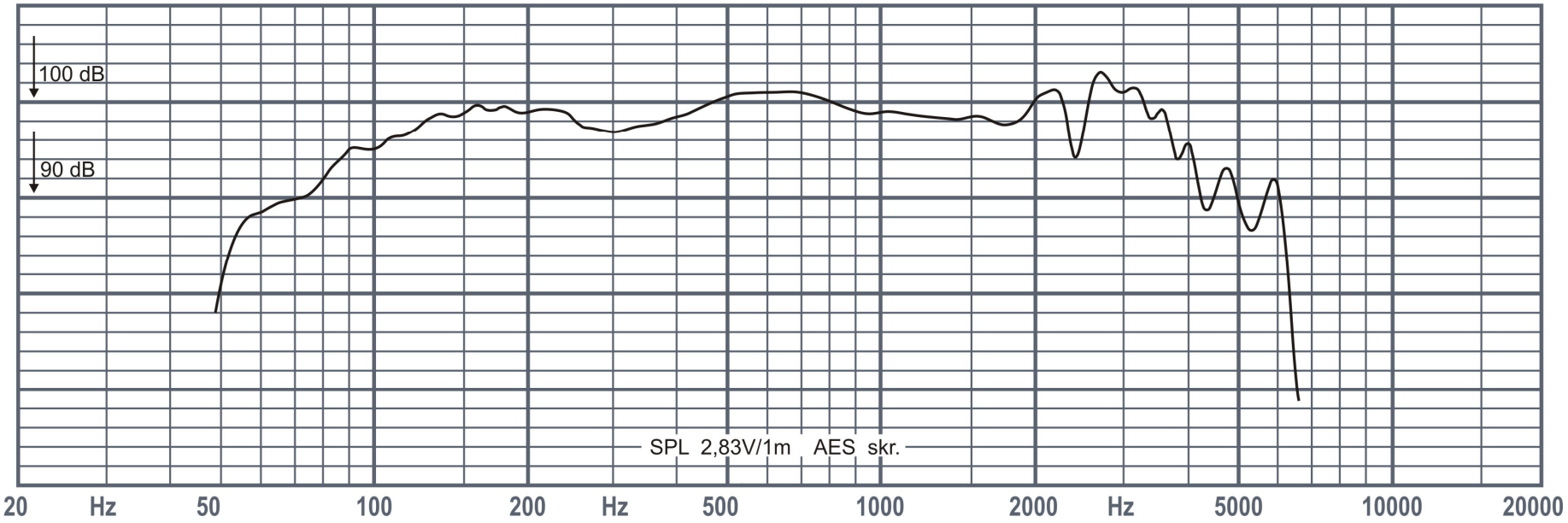
Frequency Responce



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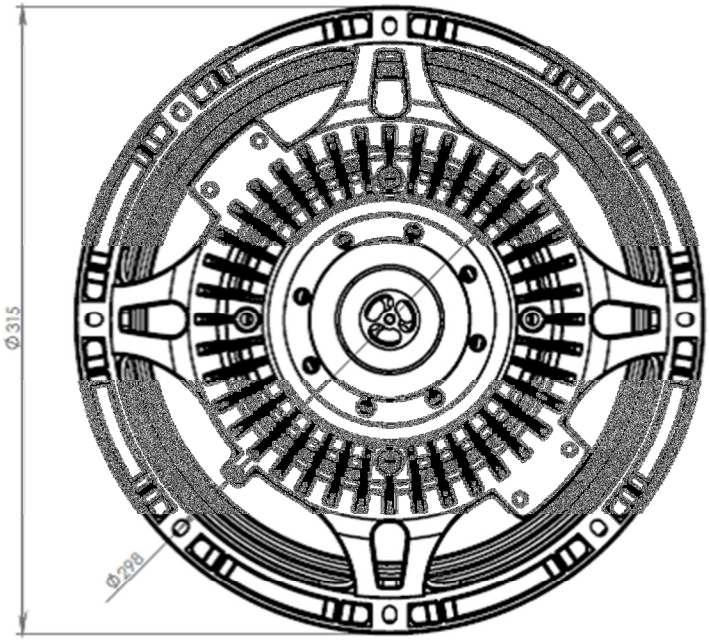

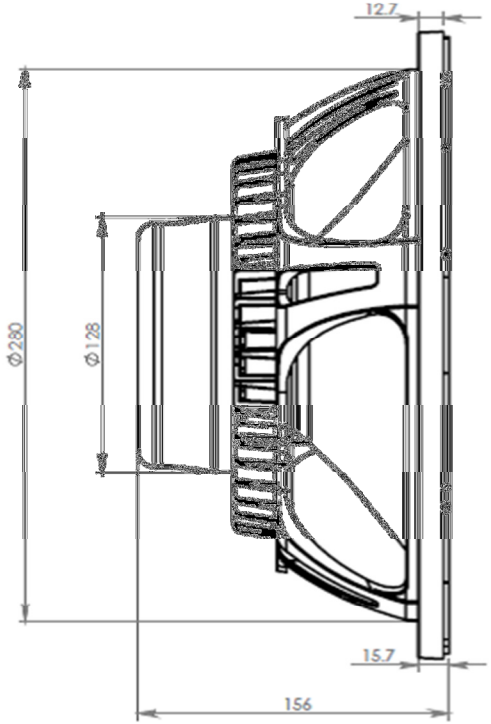

OBERTON		
model:	12NMB35	
Dimensions are in mm		Scale: 1:3