OBERTON
Professional Loudspeakers

KEY FEATURES:

98 db 1W / 1m average sensitivity
88 mm high temperature aluminium voice coil
1400 W AES program power
Powerful, vented 180 mm magnet structure
Double aluminium demodulating rings for lower distortion and improved heat dissipation
Silicone spider

Application :

The **12MB35** 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, 200 mm ferrite magnet structure with double demodulating rings and curvilinear paper cone. **12MB35** 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	6.15 Ohm
Power Capacity AES [1]	700 W
Program Power [2]	1400 W
Sensitivity	(200-2000 Hz) 98 dB/W/m
Frequency Range	50 - 2500 Hz
Voice Coil Diameter	88 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	19 mm
Magnet Gap Depth	11 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.18 T

THIELE-SMALL PARAMETERS

Resonance Frequency	51.43 Hz
Mechanical Efficiency Factor (Qms)	13.58
Electrical Efficiency Factor (Qes)	0.272
Total Q (Qts)	0.267
Equivalent Air Volume (Vas)	50.07 Litres
Diaphragm mass ind. airload (Mms)	70.76 grams
Voice Coil Resistance Re	5.00 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±6.75 mm
Mechanical Compliance of Suspension (Cms)	0.135 mm/N
BL Product (BL)	20.50 T.m
V.C. Inductance at 1 kHz (Le)	0.68 mH

MOUNTING INFORMATION

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	155 mm
Net Weight	8.5 kg

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.*

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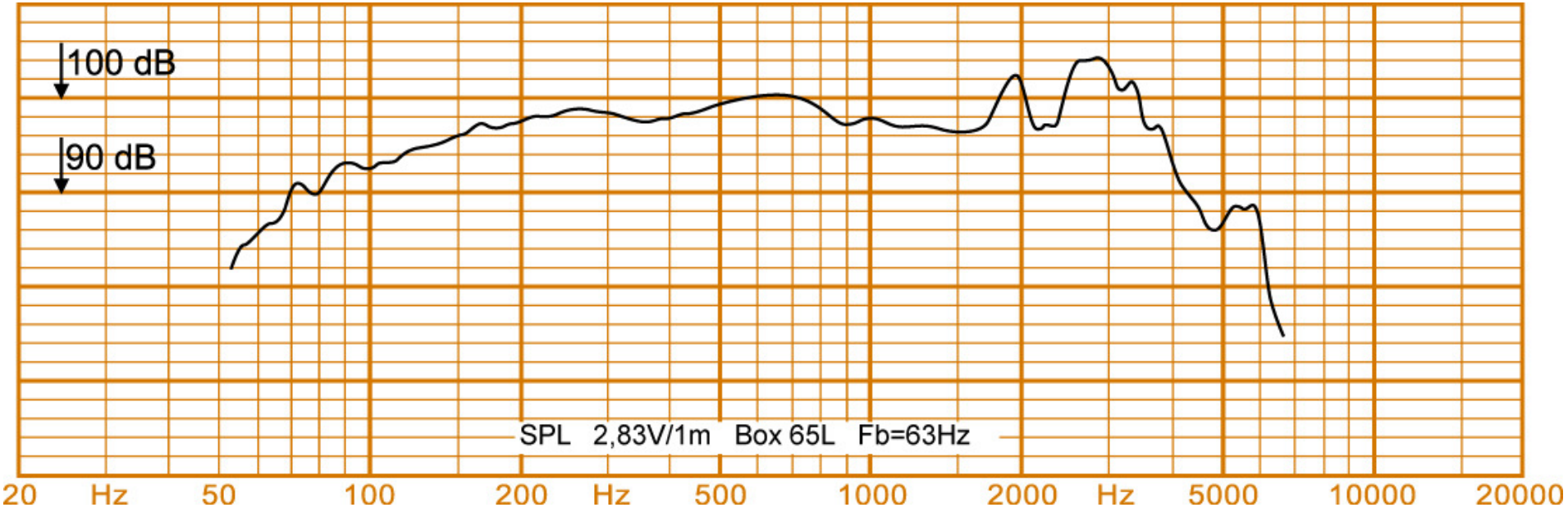

Frequency Responce

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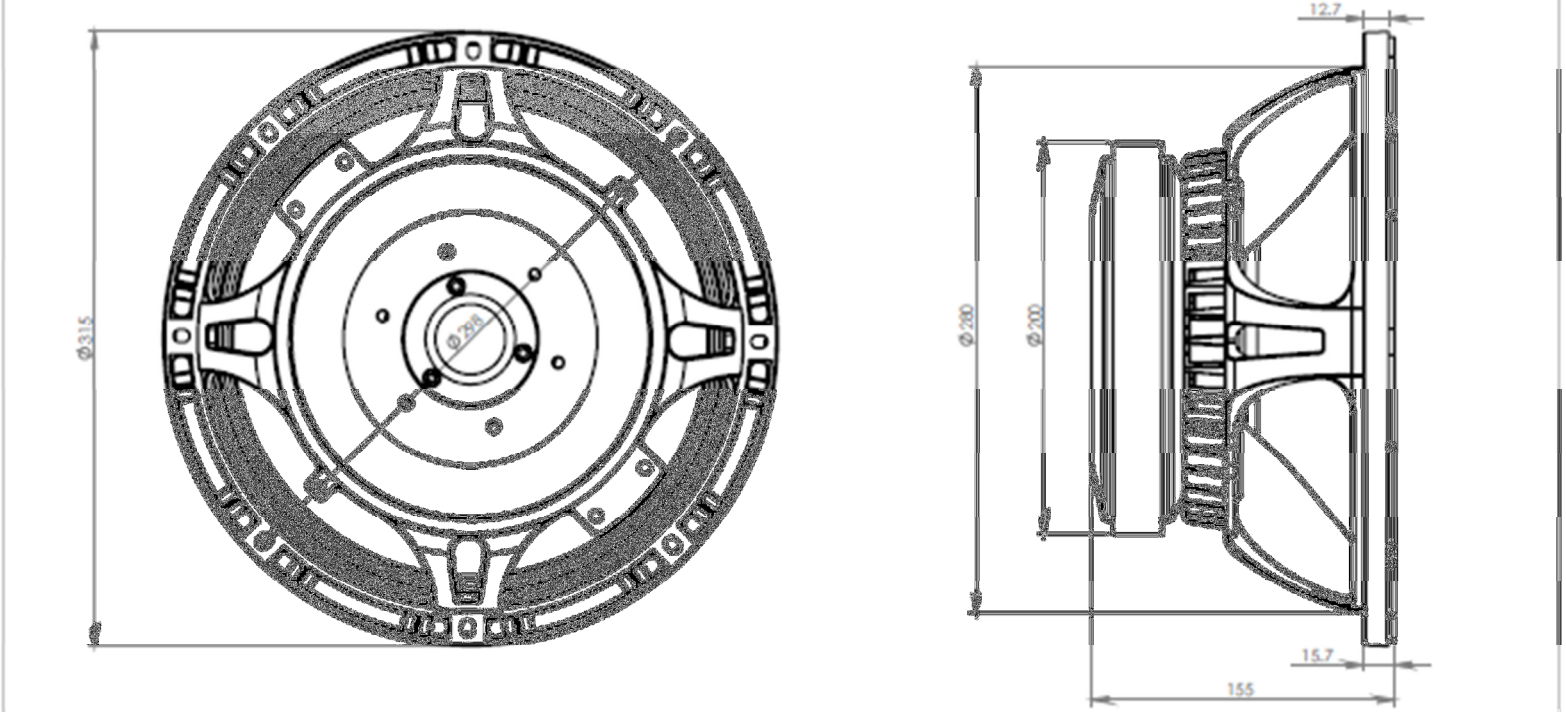

OBERTON		
model:	12MB35	
Dimensions are in mm		Scale: 1:3