



KEY FEATURES:

100 db 1W / 1m average sensitivity

88 mm high temperature aluminium voice coil

1400 W AES program power

Vented ferrite magnet assembly

**Two aluminium demodulating rings for
lower distortion and improved heat dissipation**

Silicone spider

Water protected cone (front side)

Application : High power midbass

15MB35 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 88 mm aluminium voice coil and silicone spider. It features aluminium die cast frame, vented ferrite magnet structure with two demodulating rings. 15MB35 is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way boxes. Used new 3.5" voice coil reduces power compression at the high power handling compared with classic 3" voice coil.

SPECIFICATIONS

Nominal Diameter	15"/385 inch/mm
Impedance	8 Ohm
Minimum Impedance	5.97 Ohm
Power Capacity AES ¹	700 W
Program Power ²	1400 W
Sensitivity	(200-2000 Hz)100 dB/W/m
Frequency Range	45 - 3500 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	Ferrite
Flux Density	1.15 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 120 L box enclosure tuned 56 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: $(H_{vc} - H_g)/2 + H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.

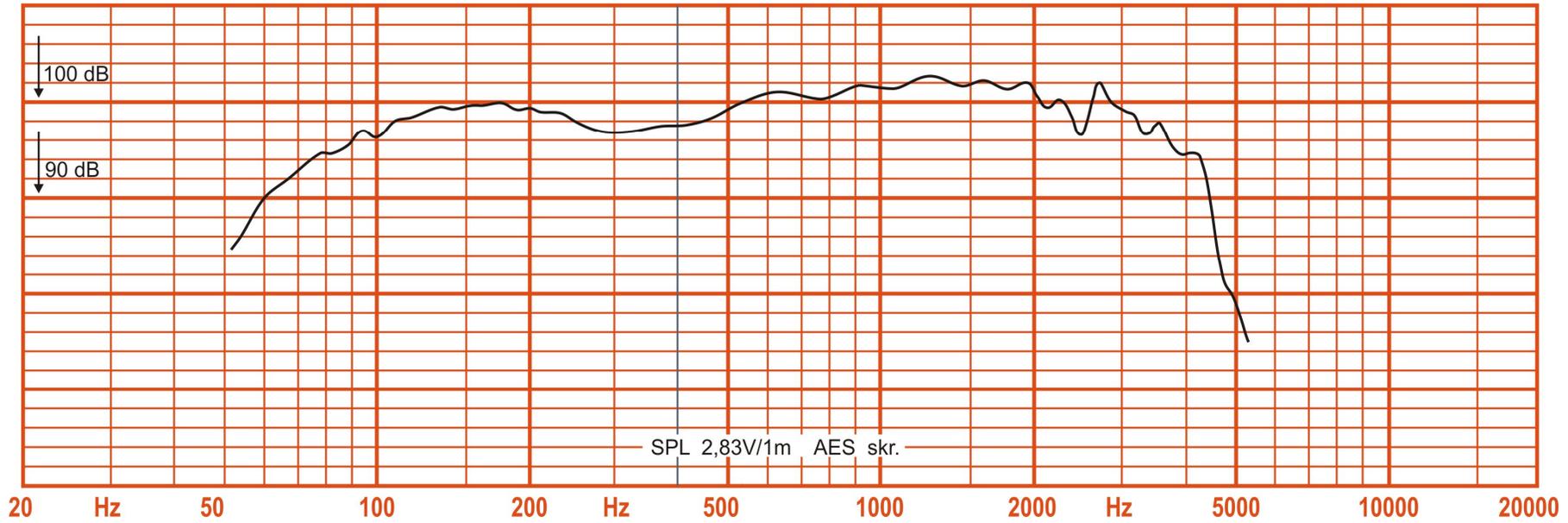
THIELE-SMALL PARAMETERS

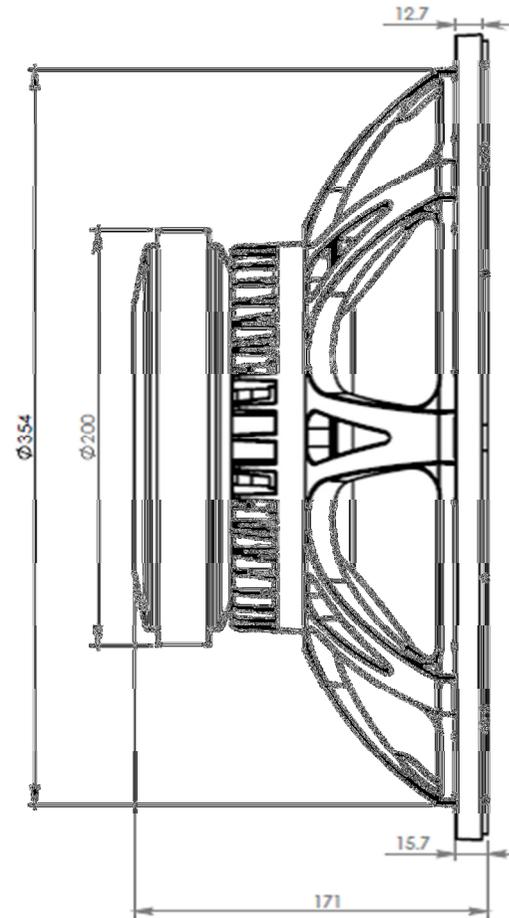
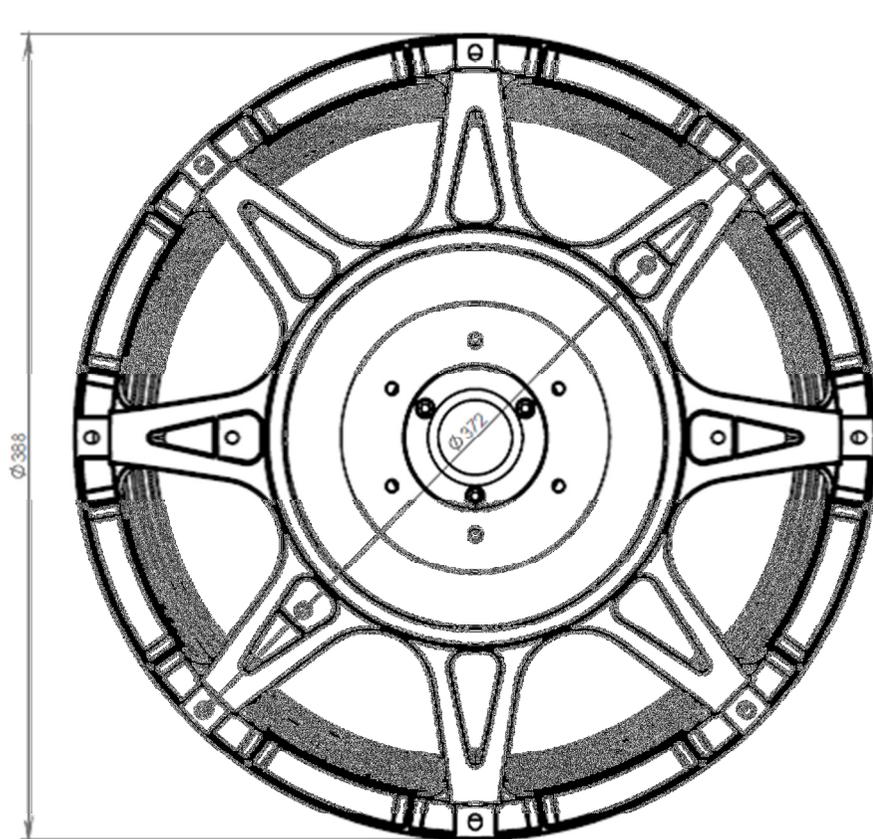
Resonance Frequency	47.70 Hz
Mechanical Efficiency Factor (Qms)	8.38
Electrical Efficiency Factor (Qes)	0.35
Total Q (Qts)	0.336
Equivalent Air Volume (Vas)	115.1 litres
Diaphragm mass ind. airload (Mms)	92.95 grams
Voice Coil Resistance Re	5.06 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±6.75 mm
Mechanical Compliance of Suspension (Cms)	0.12 mm/N
BL Product (BL)	20.07 T.m
V.C. Inductance at 1 kHz (Le)	0.637 mH

MOUNTING INFORMATION

Overall Diameter	388 mm
Baffle Hole Diameter	354 mm
Number of Mounting Holes	8 with dia. 7mm
Bolt Circle Diameter	370/372 mm
Overall Depth	171 mm
Net Weight	9.2 kg

Frequency Response





OBERTON

model: 15MB35

Dimensions are in mm

Scale: 1:3