



KEY FEATURES:

97.5 db 1W / 1m average sensitivity

100 mm high temperature copper voice coil

1400 W AES program power

Vented ferrite magnet assembly

Two aluminium demodulating rings for lower distortion and improved heat dissipation

Double silicone spider

Application : High power midbass

15MB700 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 100 mm copper voice coil and double silicone spider. It features aluminium die cast frame, vented ferrite magnet structure with two demodulating rings. 15MB700 is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way boxes.

SPECIFICATIONS

Nominal Diameter	15"/385 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.94 Ohm
Power Capacity AES ¹	700 W
Program Power ²	1400 W
Sensitivity	(200-2000 Hz) 97.5 dB/W/m
Frequency Range	45 - 2500 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	23 mm
Magnet Gap Depth	9 mm
Cone Material	Kevlar paper + glassfiber
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.28 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.

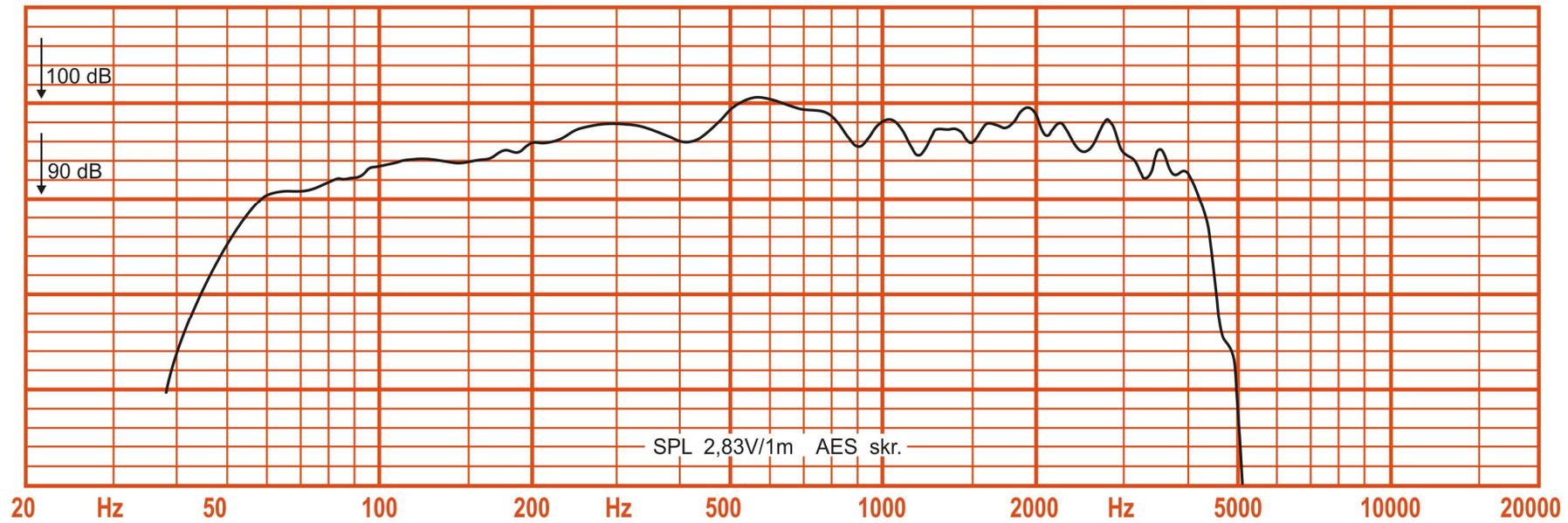
* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where Hvc is the voice coil depth and Hg is the gap depth.

THIELE-SMALL PARAMETERS

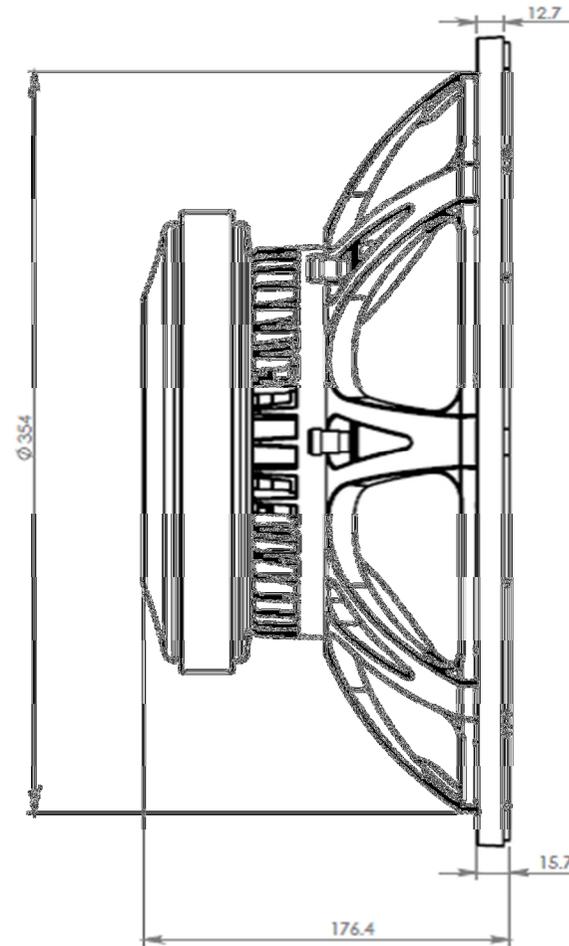
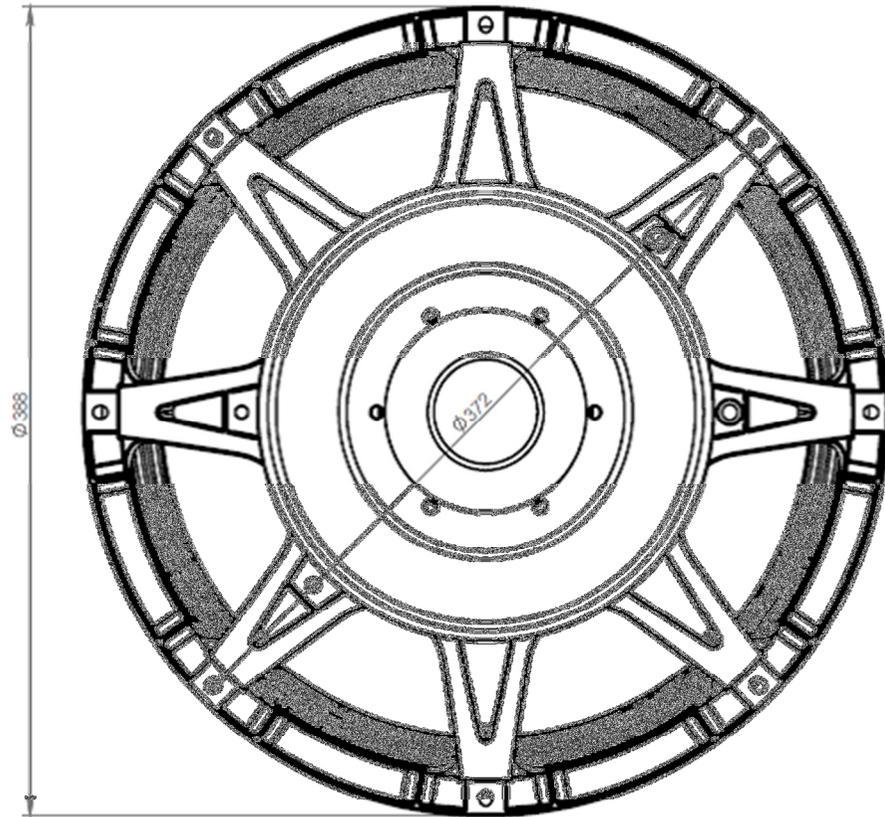
Resonance Frequency	44.24 Hz
Mechanical Efficiency Factor (Qms)	12.03
Electrical Efficiency Factor (Qes)	0.274
Total Q (Qts)	0.268
Equivalent Air Volume (Vas)	100.22 litres
Diaphragm mass ind. airload (Mms)	124.10 grams
Voice Coil Resistance Re	5.4 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 9.25 mm
Mechanical Compliance of Suspension (Cms)	0.104 mm/N
BL Product (BL)	26.05 T.m
V.C. Inductance at 1 kHz (Le)	0.92 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	176.4 mm
Net Weight	10.45 kg



Frequency Response



OBERTON

model: 15MB700

Dimensions are in mm

Scale: 1:3