



KEY FEATURES:

98 db 1W / 1m average sensitivity

100 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

Double silicone spider

Application : High power midbass

15XL700 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 100 mm aluminium voice coil and double silicone spider. It features aluminium die cast frame, vented ferrite magnet structure with two demodulating rings. The low Mms ensures fast and precise midbass reproduction. 15XL700 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	6.65 Ohm
Power Capacity AES ¹	700 W
Program Power ²	1400 W
Sensitivity	(200-2000 Hz) 98 dB/W/m
Frequency Range	45 – 3000 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Aluminum
Voice Coil Former	Glass fiber
Voice Coil Winding Depth	23 mm
Magnet Gap Depth	11 mm
Cone Material	Paper with glassfiber
Basket	Die Cast Aluminium
Magnet	Ferrite
Flux Density	1.1 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.

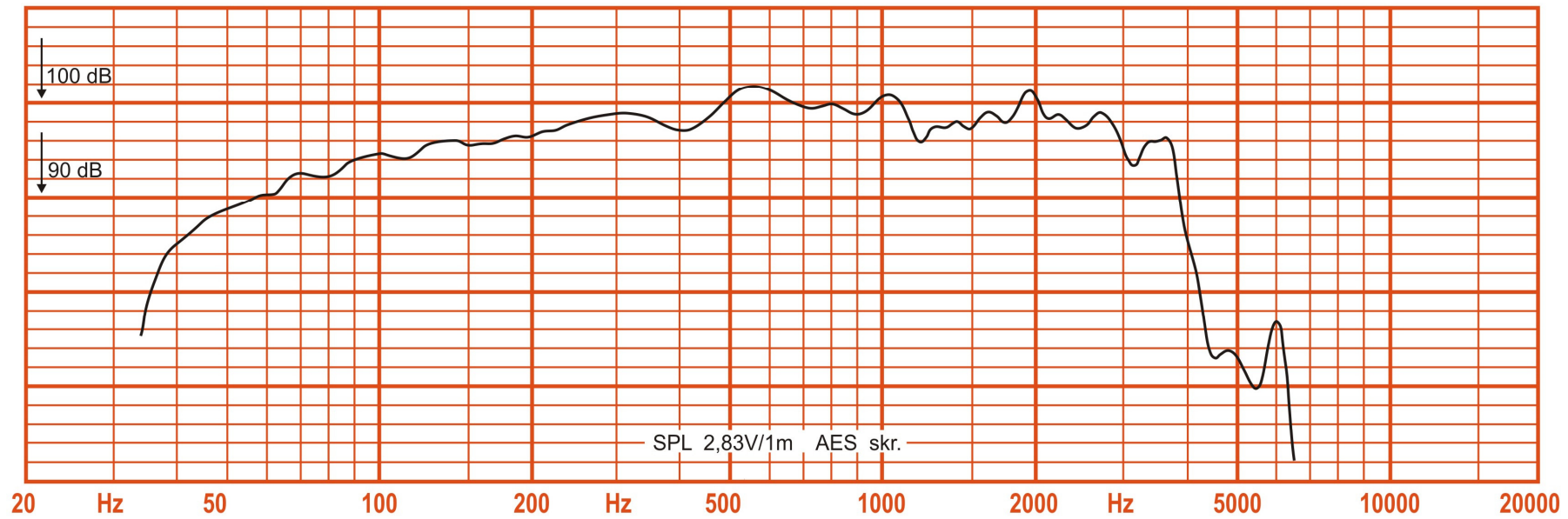
* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where Hvc is the voice coil depth and Hg is the gap depth.

THIELE-SMALL PARAMETERS

Resonance Frequency	45.25 Hz
Mechanical Efficiency Factor (Qms)	10.07
Electrical Efficiency Factor (Qes)	0.288
Total Q (Qts)	0.28
Equivalent Air Volume (Vas)	116.99 litres
Diaphragm mass ind. airload (Mms)	101.61 grams
Voice Coil Resistance Re	5.30 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 8.75 mm
Mechanical Compliance of Suspension (Cms)	0.1217 mm/N
BL Product (BL)	23.07 T.m
V.C. Inductance at 1 kHz (Le)	1.05 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	178.4 mm
Net Weight	11.95kg



Frequency Response

