OBERTON
Professional Loudspeakers

KEY FEATURES:

98 db 1W / 1m average sensitivity
100 mm high temperature sandwich voice coil
1200 W AES program power
Powerful, vented 220 mm magnet structure
Double aluminium demodulating rings for lower distortion and improved heat dissipation
Double silicone spiders for improved excursion control and linearity

Application : Mid-bass

15PD600 is a high power 15 inch mid-bass loudspeaker, with high efficiency and very good linearity. It features a 4” sandwich voice coil, 220 mm magnet structure, vented aluminium frame, double spider assembly and two aluminum demodulating rings that reduce distortions and improve cooling of the voice coil.**15PD600** is suitable for compact size bass reflex enclosures and horn loaded or hybrid horn loaded systems.

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SPECIFICATIONS

Nominal Diameter	15"/385 inch/mm
Impedance	8 Ohm
Minimum Impedance	7.95 Ohm
Power Capacity AES [1]	600 W
Program Power [2]	1200 W
Sensitivity	(200-2000 Hz) 98 dB/W/m
Frequency Range	38 - 2500 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	22 mm
Magnet Gap Depth	10 mm
Cone Material	Paper with glasfiber
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: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.*

THIELE-SMALL PARAMETERS

Resonance Frequency	38.20 Hz
Mechanical Efficiency Factor (Qms)	13.41
Electrical Efficiency Factor (Qes)	0.232
Total Q (Qts)	0.228
Equivalent Air Volume (Vas)	133.31 Litres
Diaphragm mass ind. airload (Mms)	125.14 grams
Voice Coil Resistance Re	6.35 Ohms
Effective Diagram Area (Sd)	829.6 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	± 8.5 mm
Mechanical Compliance of Suspension (Cms)	0.139 mm/N
BL Product (BL)	28.70 T.m
V.C. Inductance at 1 kHz (Le)	1.17 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	11.8 kg

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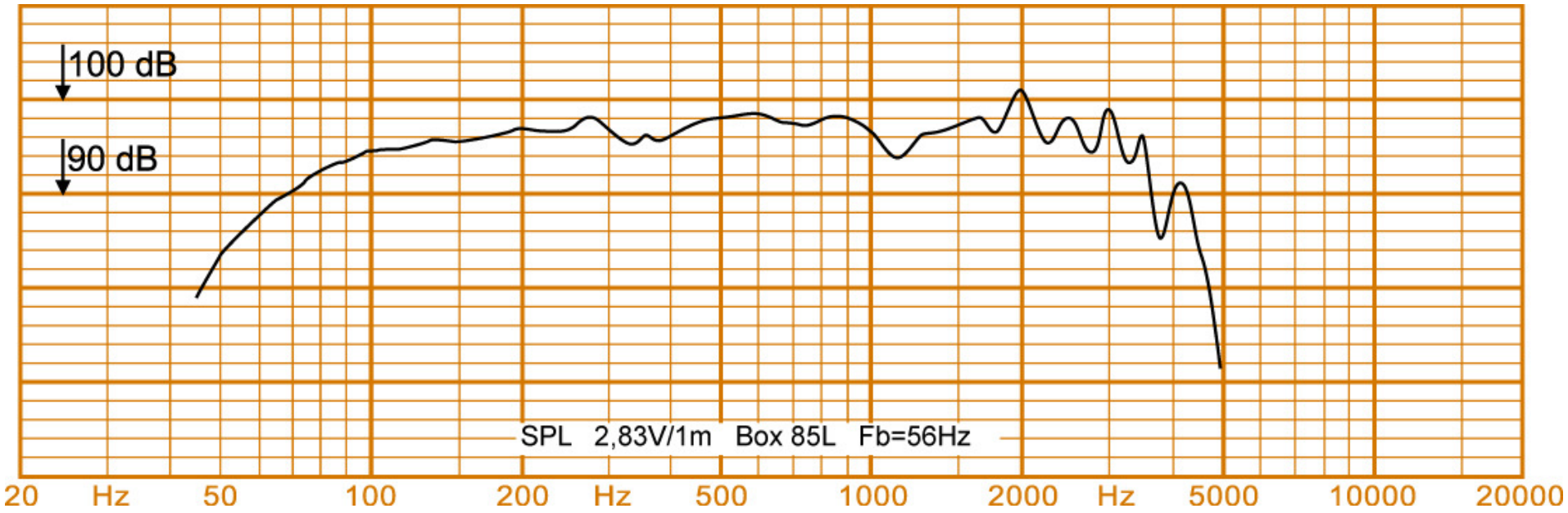

Frequency Response

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