OBERTON
Professional Loudspeakers

KEY FEATURES:

97 db 1W / 1m average sensitivity
77 mm copper voice coil
800 W AES program power
Powerful, ferrite 180 mm magnet structure
Silicone spider

Application :

The **12B401** loudspeaker is combining good linearity and efficiency with high power handling capabilities, with use of 77 mm copper voice coil. It features vented aluminium die cast frame, 180 mm ferrite magnet structure and curvilinear paper cone. **12B401** is suitable for application as LF driver in small stage monitors and 2-way PA boxes with 1” HF driver.

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SPECIFICATIONS

Nominal Diameter	12"/310 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.85 Ohm
Power Capacity AES [1]	400 W
Program Power [2]	800 W
Sensitivity	(200-2000 Hz) 97 dB/W/m
Frequency Range	50 - 2500 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Copper
Voice Coil Former	Kapton™
Voice Coil Winding Depth	18 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.3 T

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.*

THIELE-SMALL PARAMETERS

Resonance Frequency	46.63 Hz
Mechanical Efficiency Factor (Qms)	13.93
Electrical Efficiency Factor (Qes)	0.250
Total Q (Qts)	0.245
Equivalent Air Volume (Vas)	69.60 Litres
Diaphragm mass ind. airload (Mms)	61.90 grams
Voice Coil Resistance Re	5.48 Ohms
Effective Diagram Area (Sd)	514.7 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±6.75 mm
Mechanical Compliance of Suspension (Cms)	0.188 mm/N
BL Product (BL)	19.95 T.m
V.C. Inductance at 1 kHz (Le)	1.04 mH

MOUNTING INFORMATION

Overall Diameter	310 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 with dia. 7 mm
Bolt Circle Diameter	294 mm
Overall Depth	144.5 mm
Net Weight	7.25 kg

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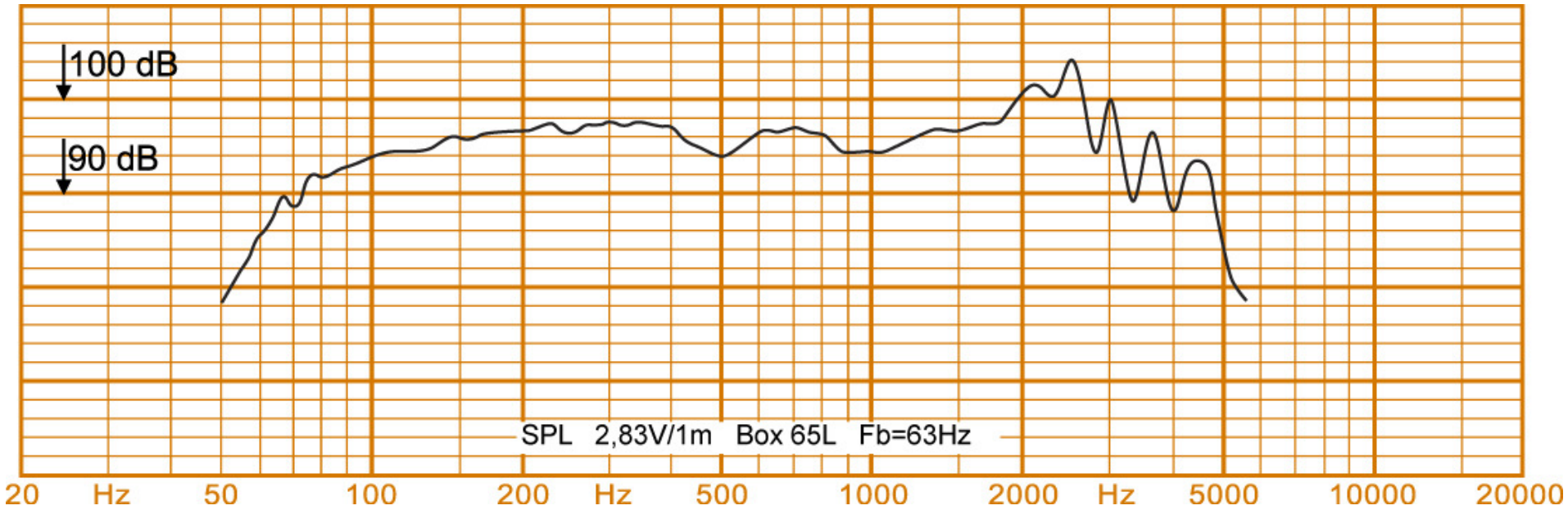

Frequency Responce

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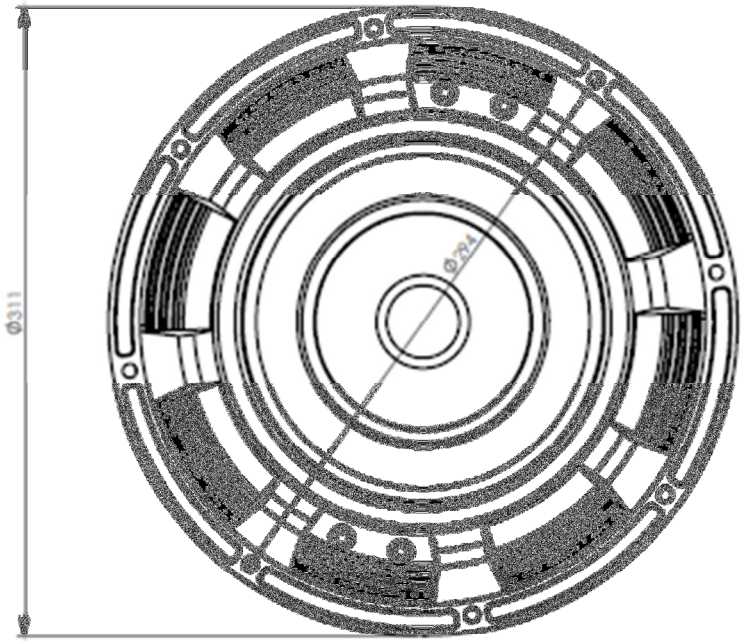

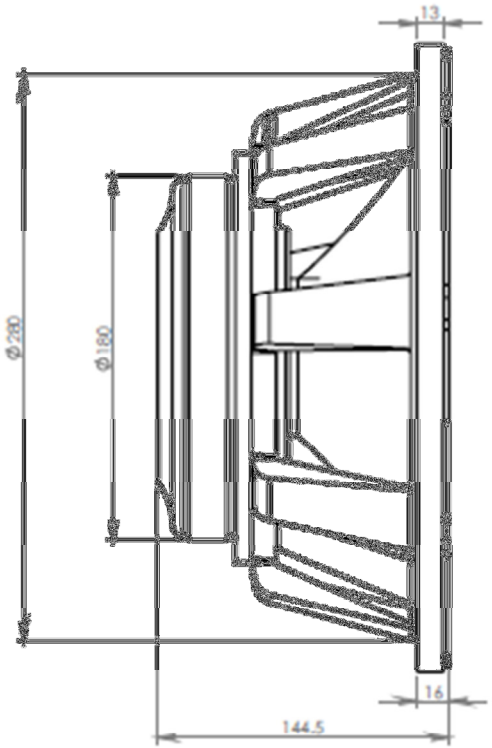

OBERTON		
model:	12B401	
Dimensions are in mm		Scale: 1:3