

Oberton 15 L 400



KEY FEATURES:

- 102.5 db 1W / 1m average sensitivity
- 64 mm high temperature aluminium voice coil
- 800 W AES program power
- Powerful, ferrite 180 mm magnet structure
- Silicone spider

Application : Midbass with extended midrange for live music

The **15L400** loudspeaker is combining an exceptional efficiency, extended midrange, high power handling capability with use of 64 mm aluminium voice coil. It features vented aluminium die cast frame, 180 mm magnet structure and special ribbed curvilinear paper cone. **15L400** is suitable for application as the LF driver in compact 15" 2- way boxes.

SPECIFICATIONS

Nominal Diameter	15"/381 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.23 Ohm
Power Capacity AES ¹	400 W
Program Power ²	800 W
Sensitivity	(200 – 2000)Hz 102.5 dB/W/m
Frequency Range	45 - 4000 Hz
Voice Coil Diameter	64 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	11 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.35

THIELE-SMALL PARAMETERS

Resonance Frequency	43.25 Hz
Mechanical Efficiency Factor (Qms)	11.56
Electrical Efficiency Factor (Qes)	0.294
Total Q (Qts)	0.287
Equivalent Air Volume (Vas)	229.90 Litres
Diaphragm mass ind. airload (Mms)	56.60 grams
Voice Coil Resistance Re	5.45 Ohms
Effective Diaphragm Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±3.25 mm
Mechanical Compliance of Suspension (Cms)	0.239 mm/N
BL Product (BL)	16.87 T.m
V.C. Inductance at 1 kHz (Le)	0.62 mH

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.

MOUNTING INFORMATION

Overall Diameter	388 mm
Baffle Hole Diameter	352 mm
Number of Mounting Holes	8 elliptic 7x8 mm
Bolt Circle Diameter	370/372 mm
Overall Depth	164.5 mm
Net Weight	7.25 kg

Frequency Responce

