Oberton 15 XL 400



KEY FEATURES:

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

Application: Midbass with extended midrange

The **15XL400** speaker combining very good linearity and efficiency with high power handling capabilities, with use of 77 mm aluminium voice coil. It features aluminium die cast frame, 180 mm magnet structure. **15XL400** is suitable for application as the LF driver in compact 15" 2-way boxes.

SPECIFICATIONS

Nominal Diameter 15"/388 inch/mm
Impedance 8 Ohm
Minimum Impedance 6.39 Ohm
Power Capacity AES 1 400 W
Program Power 2 800 W

Sensitivity (200-2000 Hz) 102 dB/W/m

Frequency Range 50 - 3500 Hz
Voice Coil Diameter 77 mm
Voice Coil Material Aluminium
Voice Coil Former Kapton™
Voice Coil Winding Depth 15 mm
Magnet Gap Depth 9 mm

Cone Material Paper with glassfiber
Basket Die cast aluminium

Magnet Forrite

Magnet Ferrite Flux Density 1.33 T

THIELE-SMALL PARAMETERS

48.78 Hz Resonance Frequency Mechanical Efficiency Factor (Qms) 9.30 Electrical Efficiency Factor (Qes) 0.350 Total Q (Qts) 0.337 Equivalent Air Volume (Vas) 140.00 Litres Diaphragm mass ind. airload (Mms) 73.05 grams Voice Coil Resistance Re 5.6 Ohms Effective Diagram Area (Sd) 829.6 cm² Peak Linear Displacement of Diaphragm (Xmax)* ± 5.25 mm Mechanical Compliance of Suspension (Cms) 0.146 mm/N BL Product (BL) 18.92 T.m V.C. Inductance at 1 kHz (Le) 0.76 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 Ha is the gap depth.

MOUNTING INFORMATION

 Overall Diameter
 388 mm

 Baffle Hole Diameter
 352 mm

 Number of Mounting Holes
 8 eliptic 7x8 mm

 Bolt Circle Diameter
 370/372 mm

 Overall Depth
 162.5 mm

 Net Weight
 7.5 kg

Frequency Responce



