

Oberton 15 B 450

KEY FEATURES:



- 100 db 1W / 1m average sensitivity
- 77 mm high temperature sandwich voice coil
- 900 W AES program power
- Aluminium demodulating ring for lower distortion and improved heat dissipation
- Powerful, ferrite 180 mm magnet structure
- Silicone spider

Application : High power woofer

15B450 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 77 mm voice coil. It features aluminium die cast frame with integrated aluminium demodulating ring, 180 mm magnet structure and 19 mm high voice coil. **15B450** is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way syst

SPECIFICATIONS

Nominal Diameter	15"/388 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.32 Ohm
Power Capacity AES ¹	450 W
Program Power ²	900 W
Sensitivity	(200-2000 Hz) 100 dB/W/m
Frequency Range	45 - 2500 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Cooper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	18 mm
Magnet Gap Depth	9 mm
Cone Material	Paper with glassfiber
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.33 T

THIELE-SMALL PARAMETERS

Resonance Frequency	45.08 Hz
Mechanical Efficiency Factor (Qms)	9.60
Electrical Efficiency Factor (Qes)	0.294
Total Q (Qts)	0.286
Equivalent Air Volume (Vas)	146.85 Litres
Diaphragm mass ind. airload (Mms)	81.56 grams
Voice Coil Resistance Re	5.32 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 6.75 mm
Mechanical Compliance of Suspension (Cms)	0.153 mm/N
BL Product (BL)	20.43 T.m
V.C. Inductance at 1 kHz (Le)	1.08 mH

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	162.5 mm
Net Weight	7.5 kg

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.

Frequency Responce

