Oberton 15 B 500



KEY FEATURES:

- 99 db 1W / 1m average sensitivity
- 77 mm high temperature sandwich voice coil
- 1000 W AES program power
- Powerful, vented 180 mm magnet structure
- Double aluminium demodulating rings for lower distortion and improved heat dissipation
- Double silicone spiders for improved excursion control and linearity
- Water protected cone (front)

Application: High power woofer

15B500 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 77 mm voice coil. It features aluminium die cast frame, water protected cone, 180 mm vented magnet structure and 20 mm high voice coil. It has aluminum demodulating rings that reduces distortions and improves cooling of voice coil. 15B500 is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way systems.

SPECIFICATIONS

Nominal Diameter 15"/388 inch/mm
Impedance 8 Ohm
Minimum Impedance 6.39 Ohm
Power Capacity AES 1 500 W
Program Power 2 1000 W

Sensitivity (60-2000 Hz) 99 dB/W/m

Frequency Range 38 - 2500 Hz
Voice Coil Diameter 77 mm
Voice Coil Material Copper
Voice Coil Former Glassfiber
Voice Coil Winding Depth 20 mm
Magnet Gap Depth 11 mm
Cone Material Paper

Basket Die cast aluminium Magnet Strontium ferrite

Flux Density 1.20

THIELE-SMALL PARAMETERS

Resonance Frequency 38.20 Hz Mechanical Efficiency Factor (Qms) 12.06 Electrical Efficiency Factor (Qes) 0.274 Total Q (Qts) 0.268 Equivalent Air Volume (Vas) 145.82 Litres Diaphragm mass ind. airload (Mms) 114.40 grams Voice Coil Resistance Re 5.23 Ohms Effective Diagram Area (Sd) 829.6 cm² Peak Linear Displacement of Diaphragm (Xmax)* ±7.25 mm Mechanical Compliance of Suspension (Cms) 0.152 mm/N BL Product (BL) 22.91 T.m V.C. Inductance at 1 kHz (Le) 1.25 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
 354 mm

 Number of Mounting Holes
 8 eliptic 7x8 mm

 Bolt Circle Diameter
 370/372 mm

 Overall Depth
 169 mm

 Net Weight
 7.8 kg

Frequency Responce



