Oberton 18 B 500



KEY FEATURES:

- 99 db 1W / 1m average sensitivity
- 77 mm high temperature sandwich voice coil
- 1200 W AES program power
- Powerful, vented 220 mm magnet structure
- Silicone spider

Application : Power bass

The **18B500** loudspeaker are intended for high level, high power low frequency reproduction in ported enclosures. It feature vented die cast frame, 220 mm magnet structure, 3 inch voice coil and double spider assembly. This results in an very high sensitivity bass transducer for high power subwoofer application.

SPECIFICATIONS

| Nominal Diameter | 18 |
|----------------------------|----|
| Impedance | 8 |
| Minimum Impedance | 6. |
| Power Capacity AES 1 | 60 |
| Program Power ² | 12 |
| Sensitivity | (5 |
| Frequency Range | 35 |
| Voice Coil Diameter | 77 |
| Voice Coil Material | Co |
| Voice Coil Former | G |
| Voice Coil Winding Depth | 23 |
| Magnet Gap Depth | 11 |
| Cone Material | Pa |
| Basket | D |
| Magnet | Fe |
| Flux Density | 1. |

8"/461 inch/mm Ohm .38 Ohm 00 W 200 W 50 - 200 Hz) 99 dB/W/m 5 - 1000 Hz 7 mm opper Glassfiber 3 mm .1 mm aper Die cast aluminium errite .27 T

THIELE-SMALL PARAMETERS

| Resonance Frequency | 34.90 Hz |
|---|----------------|
| Mechanical Efficiency Factor (Qms) | 9.24 |
| Electrical Efficiency Factor (Qes) | 0.284 |
| Total Q (Qts) | 0.275 |
| Equivalent Air Volume (Vas) | 243.91 Litress |
| Diaphragm mass ind. airload (Mms) | 146.79 grams |
| Voice Coil Resistance Re | 5.10 Ohms |
| Effective Diagram Area (Sd) | 1110 cm^2 |
| Peak Linear Displacement of Diaphragm (Xmax)* | ± 8.75 mm |
| Mechanical Compliance of Suspension (Cms) | 0.142 mm/N |
| BL Product (BL) | 24.06 T.m |
| V.C. Inductance at 1 kHz (Le) | 1.37 mH |
| | |

MOUNTING INFORMATION

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 180 L box enclosure tuned 43 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.

Overall Diameter461 mmBaffle Hole Diameter416 mmNumber of Mounting Holes8 eliptic 7 x 8,5 mmBolt Circle Diameter438/441 mmOverall Depth204 mmNet Weight12.30 kg

Frequency Responce



