Oberton 15 MB 600

KEY FEATURES:

- **98 db 1W / 1m average sensitivity**
- **100 mm high temperature sandwich voice coil**
- **1200 W AES program power**
- **Powerful, vented 220 mm magnet structure**
- **Double aluminium demodulating rings for lower distortion and improved heat dissipation**
- **Double silicone spiders for improved excursion control and linearity**

Application : Midbass

15MB600 is a high power 15 inch mid-bass loudspeaker, with high efficiency and perfect linearity. It features a 4” sandwich voice coil, 220 mm magnet structure, vented aluminium frame, double silicone spider assembly and aluminum demodulating rings that reduces distortions and improves cooling of the voice coil. **15MB600** is suitable for compact size bass reflex enclosures and horn loaded or hybrid horn loaded systems.

SPECIFICATIONS

Nominal Diameter	15"/385 inch/mm
Impedance	8 Ohm
Minimum Impedance	6.67 Ohm
Power Capacity AES [1]	600 W
Program Power [2]	1200 W
Sensitivity	(200-2000 Hz) 98 dB/W/m
Frequency Range	37 - 2000 Hz
Voice Coil Diameter	100 mm
Voice Coil Material	Copper
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	15 mm
Magnet Gap Depth	9 mm
Cone Material	Kevlar paper
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.40 T

THIELE-SMALL PARAMETERS

Resonance Frequency	32.4 Hz
Mechanical Efficiency Factor (Qms)	10.94
Electrical Efficiency Factor (Qes)	0.173
Total Q (Qts)	0.171
Equivalent Air Volume (Vas)	204 Litres
Diaphragm mass ind. airload (Mms)	113.28 grams
Voice Coil Resistance Re	5.23 Ohms
Effective Diagram Area (Sd)	829.6 cm^2
Peak Linear Displacement of Diaphragm (Xmax)*	±5.5 mm
Mechanical Compliance of Suspension (Cms)	0.213 mm/N
BL Product (BL)	26.38 T.m
V.C. Inductance at 1 kHz (Le)	1.05mH

MOUNTING INFORMATION

Overall Diameter	388 mm
Baffle Hole Diameter	354 mm
Number of Mounting Holes	8 with dia. 7mm
Bolt Circle Diameter	370/372 mm
Overall Depth	174.4 mm
Net Weight	10.45 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