Oberton 8 M 250

KEY FEATURES:

- **99.5 db 1W / 1m average sensitivity**
- **51 mm high temperature aluminium voice coil**
- **500 W AES program power**
- **Powerful, ferrite 156 mm magnet structure**

Application : Midrange speaker

The **8M250** loudspeaker is combining high efficiency and 250W power capacity with use of 51 mm aluminium voice coil. It features aluminium die cast frame, 156 mm magnet structure and curvilinear paper cone. **8M250** is intended for use as a direct radiating or horn loaded midrange speaker.

SPECIFICATIONS

Nominal Diameter	8"/203mm
Impedance	8 Ohm
Minimum Impedance	6.20 Ohm
Power Capacity AES [1]	250 W
Program Power [2]	500 W
Sensitivity	(500-5000 Hz) 99.5 dB/W/m
Frequency Range	90 - 5000 Hz
Voice Coil Diameter	51 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	10 mm
Magnet Gap Depth	9 mm
Cone Material	Paper with glassfiber
Basket	Die cast aluminium
Magnet	Strontium ferrite
Flux Density	1.43 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 18 L box enclosure tuned 82 Hz using a 60 - 2000 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.

THIELE-SMALL PARAMETERS

Resonance Frequency	74.37 Hz
Mechanical Efficiency Factor (Qms)	14.01
Electrical Efficiency Factor (Qes)	0.204
Total Q (Qts)	0.201
Equivalent Air Volume (Vas)	15.63 Liters
Diaphragm mass ind. airload (Mms)	16.38 Grams
Voice Coil Resistance Re	5.00 Ohms
Effective Diagram Area (Sd)	202 cm²
Peak Linear Displacement of Diaphragm (Xmax)*	+/- 2.75 mm
Mechanical Compliance of Suspension (Cms)	0.280mm/N
BL Product (BL)	13.70 T.m
V.C. Inductance at 1 kHz (Le)	0.42 mH

MOUNTING INFORMATION

Overall Diameter	225 mm
Baffle Hole Diameter	187 mm
Number of Mounting Holes	8 with dia. 6.5 mm
Bolt Circle Diameter	210 mm
Overall Depth	90 mm
Net Weight	4.3 kg

Frequency Responce

Brüel & Kjœr   Potentiometer Range: _____ dB Rectifier: _____ Lower Lim. Freq.: _____ Hz Wr. Speed: _____ mm/sec. Paper Speed: _____ mm/sec.

Measuring Obj.:

8M250
Box 18 L
Fb=82Hz
SPL

2,83V/1m

Rec. No.: _____
Date: 11.03.09
Sign. P.K.

QP 0124   Multiply Freq. Scale by _____   Zero Level: _____   (1612/2112)

100 dB

90 dB

Ø 225
Ø 210
210
Ø 187
Ø 155
10
12
90

OBERTON

model: 8M250