

Oberton 10 B 200



KEY FEATURES:

- 93 db 1W / 1m average sensitivity
- 51 mm high temperature voice coil
- 400 W AES program power
- Ferrite 134 mm magnet structure

Application: woofer

The 10B200 loudspeaker is designed special for use in high quality compact 2-way boxes for indoor and outdoor application. It features 51 mm voice coil, 134 mm magnet structure, die cast aluminium frame and glass fiber cone.

SPECIFICATIONS

Nominal Diameter	10"/262 Inch/mm
Impedance	8 Ohm
Minimum Impedance	5.25 Ohm
Power Capacity AES ¹	200 W
Program Power ²	400 W
Sensitivity	(200-2000 Hz) 93 dB/W/m
Frequency Range	45 - 3000 Hz
Voice Coil Diameter	51 mm
Voice Coil Material	Copper
Voice Coil Former	Kapton™
Voice Coil Winding Depth	17 mm
Magnet Gap Depth	7 mm
Cone Material	Glass Fiber
Basket	Die cast aluminium
Magnet	Ferrite
Flux Density	1.35 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 30 L box enclosure tuned 60 Hz using a 50-1000 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	47.88 Hz
Mechanical Efficiency Factor (Qms)	9.27
Electrical Efficiency Factor (Qes)	0.341
Total Q (Qts)	0.329
Equivalent Air Volume (Vas)	36.21 Litres
Diaphragm mass ind. airload (Mms)	43.75 grams
Voice Coil Resistance Re	5.10 Ohms
Effective Diaphrag Area (Sd)	317.3 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 5.75 mm
Mechanical Compliance of Suspension (Cms)	0.252 mm/N
BL Product (BL)	14.02 T.m
V.C. Inductance at 1 kHz (Le)	0.84 mH

MOUNTING INFORMATION

Overall Diameter	262 mm
Baffle Hole Diameter	228 mm
Number of Mounting Holes	8 with dia. 7 mm
Bolt Circle Diameter	244 mm
Overall Depth	113 mm
Net Weight	3.6 kg

Frequency Responce

