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# 10NMB500

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**NEW** 10" Neodymium Midbass, 3" voice coil, 500 W, 96.5 dB



## KEY FEATURES:

- 96.5 db 1W / 1m average sensitivity
- 77 mm aluminium, high temperature voice coil
- 1000 W AES program power
- Vented neodymium magnet assembly with massive heatsink
- Double aluminium demodulating rings for lower distortion and improved heat dissipation [Back to Top](#)
- Water protected cone (front)

**PART NUMBER:** 11110N0108**Application : Power midbass speaker**

The 10NMB500 neodymium loudspeaker is combining good linearity and efficiency with high power handling capabilities, with use of 77 mm aluminium voice coil. It features curvilinear paper cone with water protection (front), aluminium die cast frame with vented neodymium magnet structure. The double aluminium demodulating rings on the magnet structure reduce distortion and inductance and improve transient response. The massive heatsink improves the cooling of the magnet structure, which reduce power compression. 10NMB500 is suitable for application as LF driver in compact 2- way PA boxes with 1" HF driver.

**SPECIFICATIONS**

Nominal Diameter	10"/262 inch/mm
Impedance	8 Ohm
Minimum Impedance	5.89 Ohm
Power Capacity AES <sup>1</sup>	500 W
Program Power <sup>2</sup>	1000 W
Sensitivity	(200-2000 Hz) 96.5 dB/W/m
Frequency Range	65 - 3000 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Aluminium
Voice Coil Former	Glassfiber
V. C. Winding Depth	20 mm
Magnet Gap Depth	7 mm
Cone Material	Paper
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.2 T

**THIELE-SMALL PARAMETERS**

Fs	68.21 Hz
Qms	11.8
Qes	0.423
Qts	0.408
Vas	18.63 Litres
Mms	41.92 grams
Re	4.99 Ohms
Sd	317.3 cm <sup>2</sup>
Xmax*	±8.25 mm
Cms	0.13 mm/N
BL	14.56 T.m
Le at 1kHz	0.394 mH

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.

**MOUNTING INFORMATION**

Overall Diameter	263 mm
Baffle Hole Diameter	225 mm
Mounting Holes	8 with dia. 7 mm

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29.7.2021

10NMB500

Bolt Circle Diameter

244 mm

Overall Depth

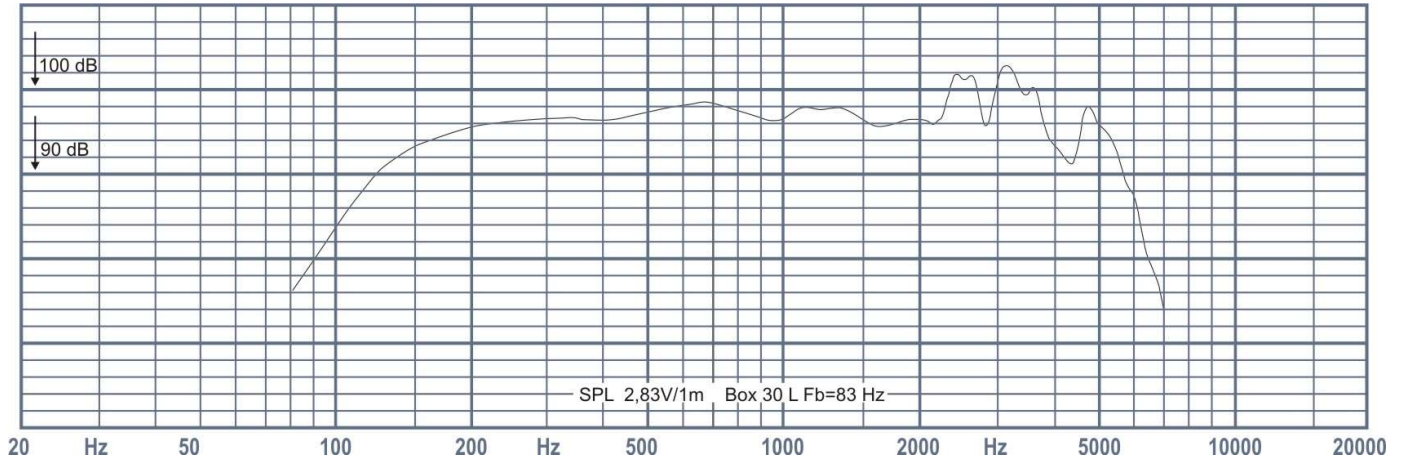
147.8 mm

Net Weight

4.25 kg

**RECONE KIT:**

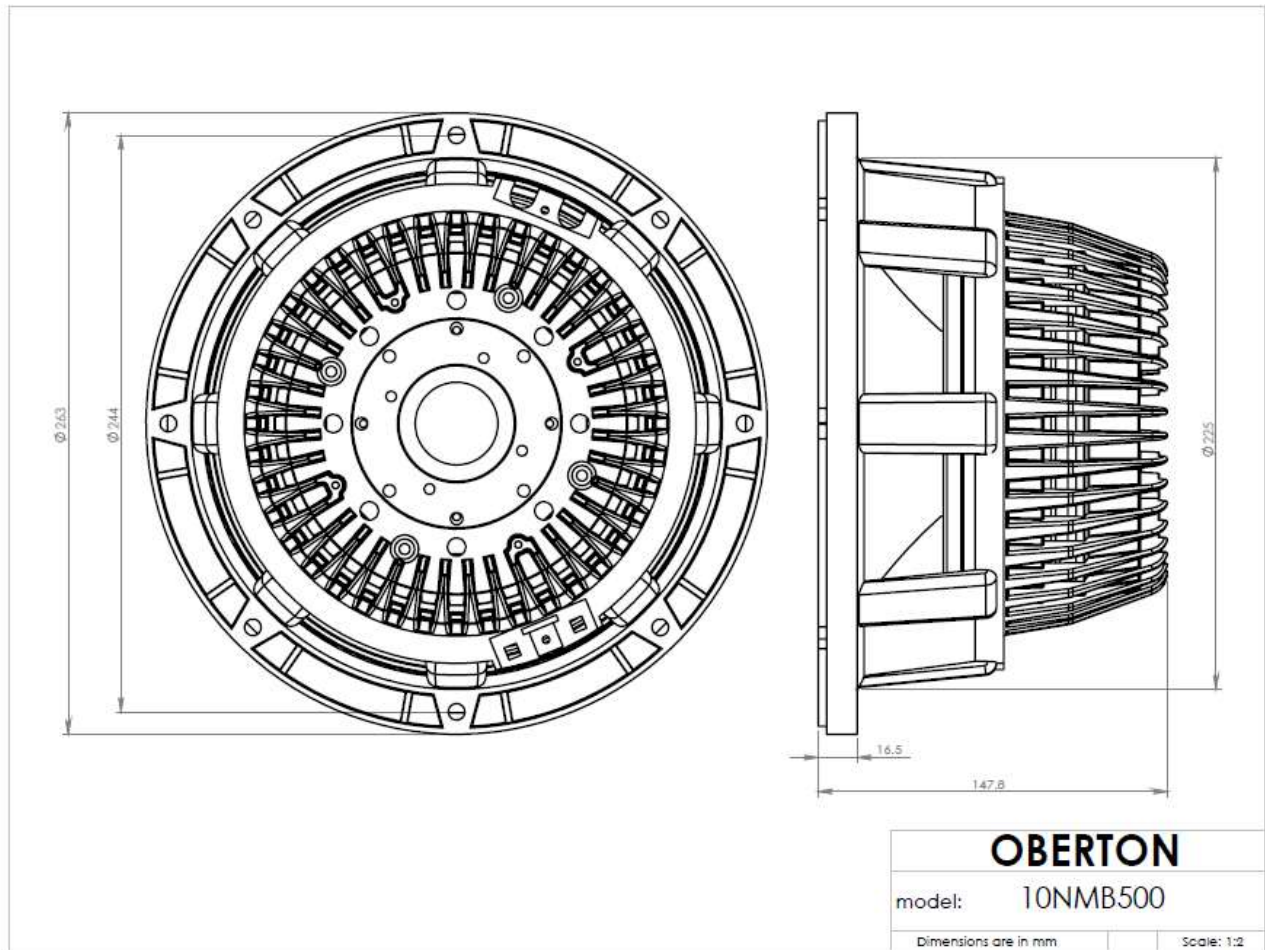
RK10NMB500 - Part No: R1110N0108



Frequency Response

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