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## **KEY FEATURES:**

100 db 1W / 1m average sensitivity
77 mm high temperature voice coil
1000 W AES program power
Vented neodymium magnet assembly with massive heatsink
Triple aluminium demodulating rings for lower distortion and improved heat dissipation
Silicone spider
Water protected cone (front)

12NB450 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 77 mm aluminium voice coil and silicone spider. It features aluminium die cast frame with integrated triple demodulating rings and vented neodymium magnet structure. The massive heatsink improve the cooling of the magnet structure, which reduce power compression. 12NB450 is suitable for application as LF driver in compact 2- way boxes, and small stage monitors.





#### **SPECIFICATIONS**

Nominal Diameter 12"/315 inch/mm Impedance 8 Ohm Minimum Impedance 6.54 Ohm Power Capacity AES <sup>1</sup> 500 W Program Power <sup>2</sup> 1000 W Sensitivity (200 -2000 Hz) 100 dB/W/m Frequency Range 50 - 2000 Hz Voice Coil Diameter 77 mm Voice Coil Material Aluminium Kapton™ Voice Coil Former Voice Coil Winding Depth 21 mm Magnet Gap Depth 11 mm Cone Material Paper with glassfiber Die Cast Aluminium Basket Magnet Neodymium Flux Density 1.30 T

- 1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 65 L box enclosure tuned 63 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 Hq is the gap depth.

#### **THIELE-SMALL PARAMETERS**

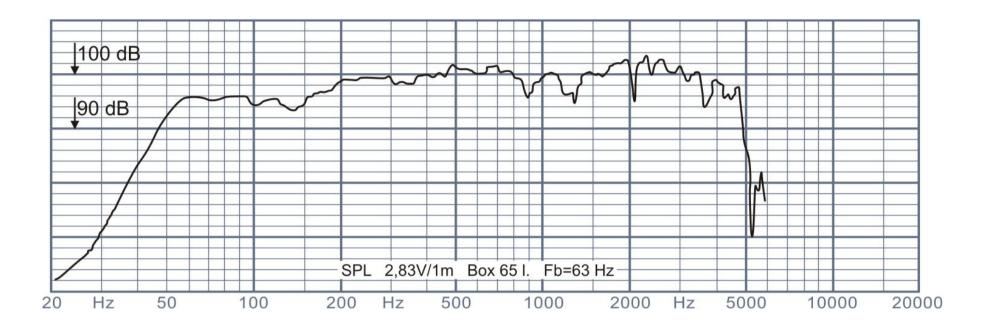
Resonance Frequency	46.46 Hz
Mechanical Efficiency Factor (Qms)	10.53
Electrical Efficiency Factor (Qes)	0.208
Total Q (Qts)	0.204
Equivalent Air Volume (Vas )	72.57 litres
Diaphragm mass ind. airload (Mms)	59.82 grams
Voice Coil Resistance Re	5.00 Ohms
Effective Diagram Area (Sd)	$514.7 \text{ cm}^2$
Peak Linear Displacement of Diaphragm (Xmax)*	±7.75 mm
Mechanical Compliance of Suspension (Cms)	0.196 mm/N
BL Product (BL)	20.34 T.m
V.C. Inductance at 1 kHz (Le)	0.83 mH

## **MOUNTING INFORMATION**

Overall Diameter	315 mm
Baffle Hole Diameter	280 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	296 / 298 mm
Overall Depth	181.3 mm
Net Weight	5.25kg







Frequency Responce





