



KEY FEATURES:

99 db 1W / 1m average sensitivity
77 mm high temperature sandwich voice coil
900 W AES program power
Vented neodymium magnet assembly with massive heatsink
Triple aluminium demodulating rings for lower distortion and improved heat dissipation

Double silicone spider for improved excursion control and linearity

Application: High power woofer

15NB451 loudspeaker combining good linearity and efficiency with high power handling capabilities, with use of 77 mm voice coil and double 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. 15NB451 is suitable for application in a wide variety of enclosure types and particularly as LF driver in 2- or 3- way boxes.





SPECIFICATIONS

15"/388 inch/mm Nominal Diameter Impedance 8 Ohm Minimum Impedance 6.07 Ohm Power Capacity AES ¹ 450 W Program Power ² 900 W Sensitivity (60-2000 Hz) 99 dB/W/m Frequency Range 48 - 3000 Hz Voice Coil Diameter 77 mm

Voice Coil Diameter77 mmVoice Coil MaterialCopperVoice Coil FormerKapton™Voice Coil Winding Depth18 mmMagnet Gap Depth9 mm

Cone Material Paper with Glass fiber
Basket Die Cast Aluminium
Magnet Neodymium

Flux Density 1.45 T

- 1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 125 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.

THIELE-SMALL PARAMETERS

Decembra Fraguency

Resonance Frequency	39.57 HZ
Mechanical Efficiency Factor (Qms)	10.54
Electrical Efficiency Factor (Qes)	0.263
Total Q (Qts)	0.257
Equivalent Air Volume (Vas)	145.21 litres
Diaphragm mass ind. airload (Mms)	100.63 grams
Voice Coil Resistance Re	5.5 Ohms
Effective Diagram Area (Sd)	829.6 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±7 mm
Mechanical Compliance of Suspension (Cms)	0.16 mm/N
BL Product (BL)	22.87 T.m
V.C. Inductance at 1 kHz (Le)	1.6 mH

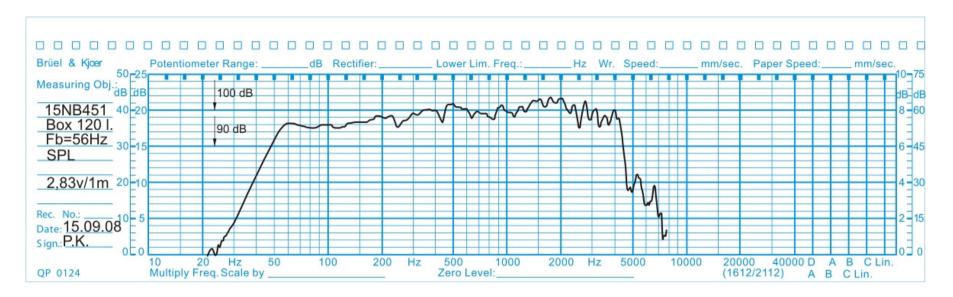
MOUNTING INFORMATION

Overall Diameter	388 mm
Baffle Hole Diameter	354 mm
Number of Mounting Holes	8 eliptic 7x8 mm
Bolt Circle Diameter	370/372 mm
Overall Depth	196.3 mm
Net Weight	4.9 kg



20 57 4-





Frequency Responce





