



KEY FEATURES:

99.5 db 1W / 1m average sensitivity

77 mm high temperature voice coil

800 W AES program power

Vented neodymium magnet assembly with massive heatsink

Double aluminium demodulating ring for lower distortion and improved heat dissipation

Water protected cone (front)

Application : Power midbass speaker

The **10NMB300** neodymium loudspeaker is primarily designed to be used in medium and long throw horn loaded systems. The special Kevlar paper cone with water protection guarantees reliable use in horns with compression chamber with ratio up to 3.5:1. It features aluminium die cast frame with vented neodymium magnet structure. The massive heatsink improves the cooling of the magnet structure, which reduces power compression.

SPECIFICATIONS

Nominal Diameter	10"/262 inch/mm
Impedance	8 Ohm
Minimum Impedance	7.05 Ohm
Power Capacity AES ¹	400 W
Program Power ²	800 W
Sensitivity	(200-2000 Hz) 99.5 dB/W/m
Frequency Range	80 - 2500 Hz
Voice Coil Diameter	77 mm
Voice Coil Material	Aluminium
Voice Coil Former	Kapton™
Voice Coil Winding Depth	15 mm
Magnet Gap Depth	9 mm
Cone Material	Kevlar Paper
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.45 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.

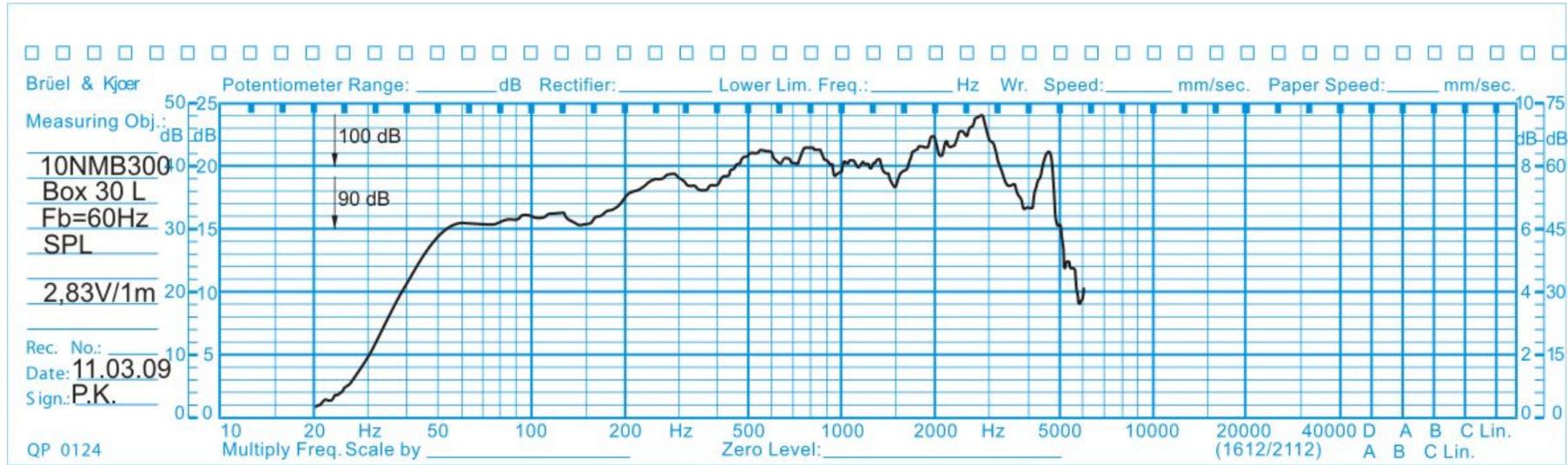
* Linear Mathematical Xmax is calculated as: $(H_{vc} - H_g)/2 + H_g/4$ where H_{vc} is the voice coil depth and H_g is the gap depth.

THIELE-SMALL PARAMETERS

Resonance Frequency	62.08 Hz
Mechanical Efficiency Factor (Qms)	10.61
Electrical Efficiency Factor (Qes)	0.216
Total Q (Qts)	0.212
Equivalent Air Volume (Vas)	22.06 Litres
Diaphragm mass ind. airload (Mms)	42.72 grams
Voice Coil Resistance Re	5.60 Ohms
Effective Diagram Area (Sd)	317.3 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	±5.25 mm
Mechanical Compliance of Suspension (Cms)	0.154 mm/N
BL Product (BL)	20.76 T.m
V.C. Inductance at 1 kHz (Le)	0.66 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	148.3 mm
Net Weight	4.75 kg



Frequency Responce

