



KEY FEATURES:

100 db 1W / 1m average sensitivity

64 mm high temperature voice coil

Two demodulating rings

500 W AES program power

Ultra low distortion

Application : Power midrange speaker

The **8NM250 V2** is high efficiency, high power midrange neodymium loudspeaker with ultra-low distortion, specially designed to provide superior sound pressure level. It features 64 mm aluminium voice coil, aluminium die cast frame with powerful neodymium magnet structure with double demodulating rings. It is suitable for application as high power midrange in direct radiating boxes and horn loaded application.

SPECIFICATIONS

Nominal Diameter	8"/210 inch/mm
Impedance	16 Ohm
Minimum Impedance	13.23 Ohm
Power Capacity AES ¹	250 W
Program Power ²	500 W
Sensitivity	(500-5000 Hz) 100 dB/W/m
Frequency Range	100 – 5000 Hz
Voice Coil Diameter	64 mm
Voice Coil Material	Aluminium
Voice Coil Former	Glassfiber
Voice Coil Winding Depth	10 mm
Magnet Gap Depth	7 mm
Cone Material	Paper with carbone fiber
Basket	Die cast aluminium
Magnet	Neodymium
Flux Density	1.55 T

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 18 L box enclosure tuned 82 Hz using a 60-2000 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	67.7 Hz
Mechanical Efficiency Factor (Qms)	13.94
Electrical Efficiency Factor (Qes)	0.257
Total Q (Qts)	0.252
Equivalent Air Volume (Vas)	8.39 Litres
Diaphragm mass ind. airload (Mms)	16.83 grams
Voice Coil Resistance Re	10.97 Ohms
Effective Diagram Area (Sd)	202 cm ²
Peak Linear Displacement of Diaphragm (Xmax)*	± 4 mm
Mechanical Compliance of Suspension (Cms)	0.1501 mm/N
BL Product (BL)	21.26 T.m
V.C. Inductance at 1 kHz (Le)	0.27 mH

MOUNTING INFORMATION

Overall Diameter	225 mm
Baffle Hole Diameter	187 mm
Number of Mounting Holes	8 with dia. 6.5 mm
Bolt Circle Diameter	210 mm
Overall Depth	84 mm
Net Weight	2.70 kg

Frequency response



