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8NMB250VCX

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NEW 8" Coaxial Neodymium Loudspeaker, 2.5" LF + 1.75" HF voice coil, 250 W + 40 W , 98 dB +110 dB



KEY FEATURES:

- 98 db SPL 1W / 1m (LF) average sensitivity
- 62 mm (2.5") high temperature voice coil (LF)
- 500 W AES program power (LF)
- Double aluminium demodulating rings

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- **Double neodymium magnet assembly**
- **Water protected cone (front)**
- **1" exit HF neodymium compression driver**
- **44 mm (1.75") HF high temperature voice coil**
- **60 degrees nominal dispersion**

PART NUMBER: 13108N0108

Application: Compact reflex boxes

The 8NMB250VCX is a 8" / 1" coaxial transducer with integrated HF horn, designed for use in compact reflex enclosures with high SPL and nominal dispersion of 60 degrees.

The low profile, smooth curvilinear LF cone together with HF horn increase the SPL in vocal range, which ensure big headroom. The cone with water prove protective coating, allowing application in a wide range of environments. The state-of-the-art 62 mm (2.5 in) LF voice coil has Glassfiber former, which together with high temperature resistant resin ensure high reliability by high power.

The double aluminium demodulating rings reduce distortion and inductance and improve transient response. The neodymium 1" exit compression driver adopted is our ND45 model.

The HF driver diaphragm assembly, using triple layer polyester dome this together with phasing plug improve linearity of frequency response in high end.

SPECIFICATIONS

Nominal diameter	210 mm (8 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	6.87 Ohm
Frequency range	85 - 20000 Hz
Dispersion angle	60 deg

LF unit

Sensitivity (200-2000 Hz)	98 dB
Power Capacity AES ¹	250 W
Program Power ²	500 W
Voice Coil Diameter	62 mm (2.5 in)
Voice Coil Material	Aluminium
Voice Coil Former	Glassfiber
V. C. Winding Depth	12 mm
Magnet Gap Depth	7 mm.
Cone Material	Paper with carbon fibers
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.55 T

HF unit

Minimum impedance HF	12.37 Ohms
DC resistance	10.6 Ohms
Sensitivity (1-15 kHz)	110 dB
Power capacity (1-20 kHz)	40 W
Program power	80 W
Voice coil diameter	44 mm (1.75 in)
Winding material	Aluminium
Diaphragm material	sandwich polyester
Flux density	1.9 T

THIELE-SMALL PARAMETERS

Fs	85.17 Hz
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3.8.2021	8NMB250VCX
Qms	7.24
Qes	0.168
Qts	0.164
Vas	10.66 L
Mms	18.30 g
Re	5.40 Ohms
Sd	202 cm ²
Xmax*	± 4.25 mm
Cms	0.191 mm/N
BL	17.76 T.m
Le at 1kHz	0.068 mH

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.

MOUNTING INFORMATION

Overall diameter	225 mm (8 in)
Depth	162.3 mm
Baffle hole diameter	187 mm
Bolt circle diameter	210 mm
Mounting holes	8 with dia 6.5 mm
Net weight	3.88 kg

LF Recone Kit:

RK8NMB250VCX, part No: R3108N0108

HF Service Kit:

Diaphragm assembly:

NDA45/h-16 PET part No: R411700416

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