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10NHCX

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NEW 10" Coaxial Neodymium Loudspeaker, 2.5" LF + 1.75" HF voice coil, 250 W + 40 W , 99 dB +110 dB



KEY FEATURES

- 99db 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
- 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

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PART NUMBER: 13110N0108

Application: Compact bass reflex boxes.

Description: The 10NHCX is a 10" / 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 ND2545 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	263 mm (10 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	6.6 Ohm
Frequency range	70 - 20000 Hz
Dispersion angle	60 deg

LF unit

Sensitivity (200-1000 Hz)	99 dB
Power Capacity AES ¹	250 W
Program Power ²	500 W
Voice Coil Diameter	62 mm (2.5 in)
Voice Coil Material	Copper Clad Aluminium Wire
Voice Coil Former	Glassfiber
V.C. Winding Depth	12 mm
Magnet Gap Depth	7 mm
Cone Material	Paper
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.55 T

HF unit

Minimum impedance HF	12.74 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 (.75 in)
Winding material	Copper Clad Aluminium Wire
Diaphragm material	sandwich polyester
Flux density	1.9 T

THIELE-SMALL PARAMETERS

Fs	71.63 Hz
Qms	11.23
Qes	0.243
Qts	0.238
Vas	24.54 L
Mms	28.84 g

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3.8.2021

10NHGX

Re	5.7 Ohms
Sd	317.3 cm ²
Xmax*	± 4.25 mm
Cms	0.171 mm/N
BL	17.44 T.m
Le at 1kHz	0.316 mH

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.

MOUNTING INFORMATION

Overall diameter	263 mm (10 in)
Depth	167 mm
Baffle hole diameter	225 mm
Bolt circle diameter	244 mm
Mounting holes	8 with diam. 7 mm
Net weight	4.1 kg

LF Recone Kit:

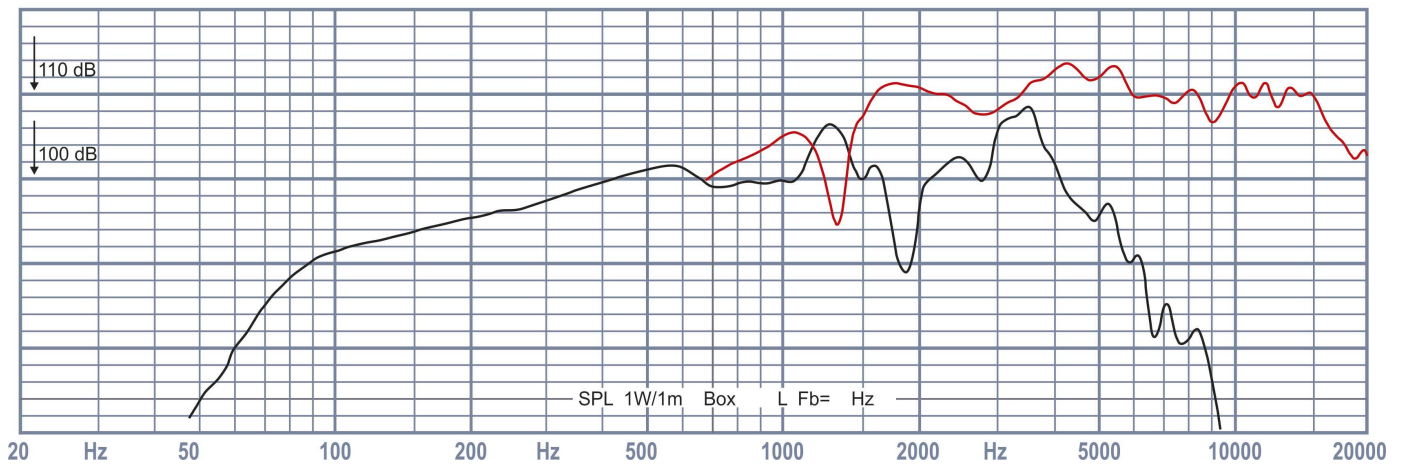
RK10NHGX, part No: R3110N0108

HF Service Kit:

Diaphragm assembly:

NDA45-16 PET part No: R411700316

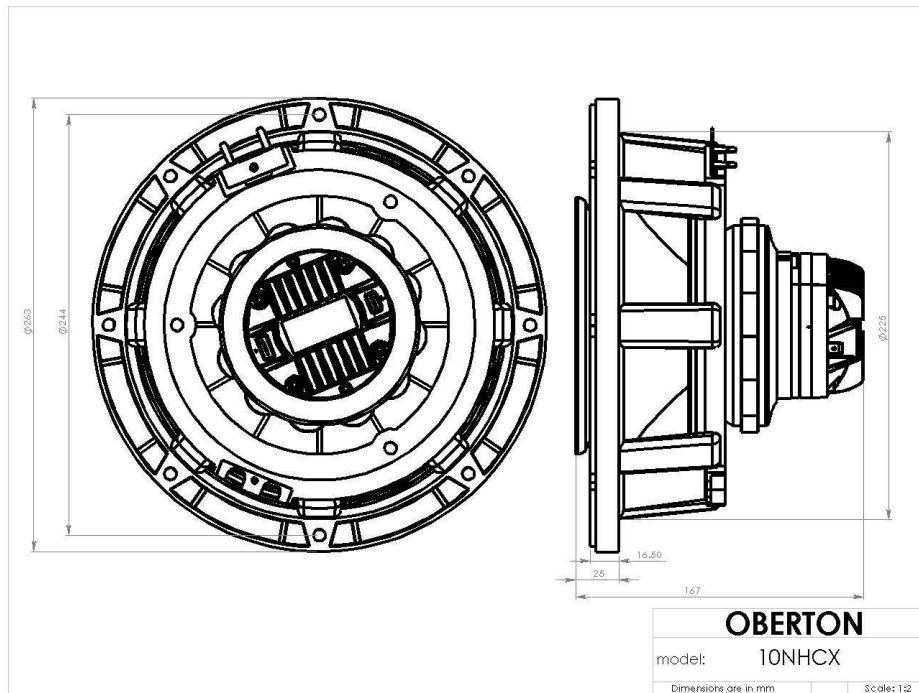
SPL 1W/1m OBERTON 10NHGX



Frequency Response

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