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10NCX

NEW 10" Coaxial Neodymium Loudspeaker, 3" LF + 2.85" HF voice coil, 350 W + 75 W , 97 dB +105.5 dB

KEY FEATURES

- **97 db SPL 1W / 1m (LF) average sensitivity**
- **77 mm (3") high temperature voice coil (LF)**
- **700 W AES program power (LF)**
- **Double aluminium demodulating rings**
- **Silicon spider**
- **Water protected cone**
- **1.4" exit HF neodymium compression driver**

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- **72 mm (2.85”) HF high temperature voice coil**
- **80 degrees nominal dispersion**
- **Very light weight**

PART NUMBER: 12110N0108

Application: Stage monitors and compact bass reflex boxes.

Description: The 10NCX is a 10" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80 degrees.
The low profile, smooth curvilinear LF cone provides smooth response within its intended frequency range. The cone with water prove protective coating, allowing application in a wide range of environments. The state-of-the-art 77 mm (3 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 on the magnet structure reduce distortion and inductance and improve transient response.
The neodymium 1.4" exit compression driver adopted is our ND72CT model.
The HF driver diaphragm assembly, using cotton composite dome this together with phasing plug improve linearity of frequency response in high end. This new dome material provides excellent vocal reproduction with very warm and clean sounding.
The HF magnet structure has cooper ring on the pole piece, which reduces the inductance figure of frequencies above 10 kHz, improving phase and impedance linearisation. This ensures extremely high SPL in the high end of the frequency response.

SPECIFICATIONS

Nominal diameter	263 mm (10 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	6.57 Ohm
Frequency range	75 - 15000 Hz
Dispersion angle	80 deg

LF unit

Sensitivity (200-1000 Hz)	97 dB
Power Capacity AES [1]	350 W
Program Power [2]	700 W
Voice Coil Diameter	77 mm (3 in)
Voice Coil Material	CCAW
Voice Coil Former	Glassfiber
V.C. Winding Depth	15 mm
Magnet Gap Depth	9 mm
Cone Material	Paper
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.1 T

HF unit

Minimum impedance HF	11.7 Ohms
DC resistance	10 Ohms
Sensitivity (1-15 kHz)	105.5 dB
Power capacity (1-20 kHz)	75 W
Program power	150 W
Voice coil diameter	72 mm (2.85 in)

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Winding material	CCAW
Diaphragm material	cotton
Flux density	1.85 T

THIELE-SMALL PARAMETERS

Fs	79.29 Hz
Qms	10.01
Qes	0.298
Qts	0.289
Vas	20.614 L
Mms	28.03 g
Re	5.6 Ohms
Sd	317.3 cm2
Xmax*	± 5.25 mm
Cms	0.144 mm/N
BL	16.21 T.m
Le at 1kHz	0.56 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.

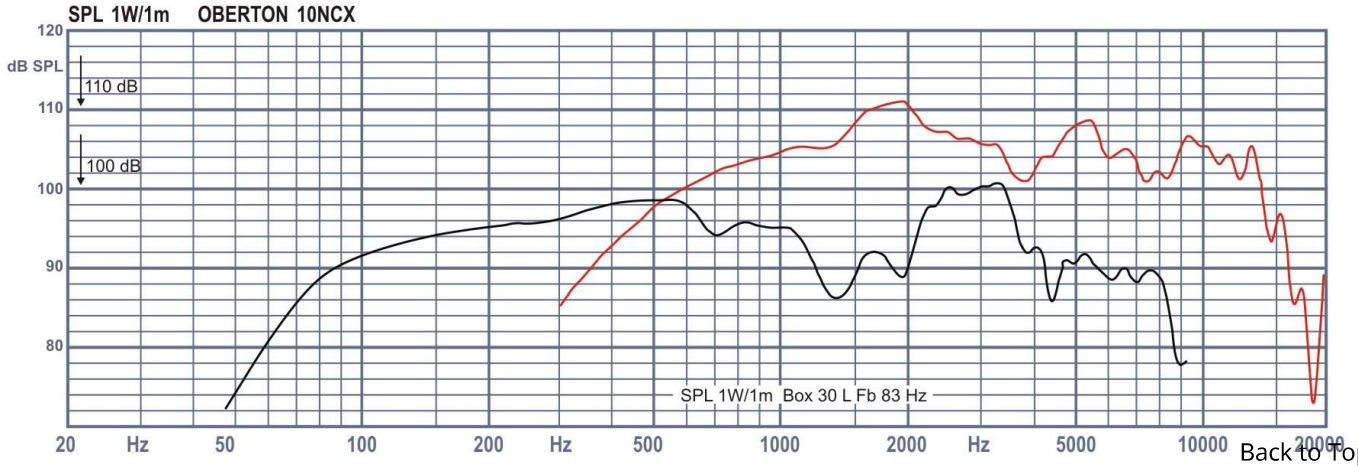
** Linear Mathematical Xmax is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg is the gap depth.*

MOUNTING INFORMATION

Overall diameter	263 mm (10 in)
Depth	163.6 mm
Baffle hole diameter	225 mm
Bolt circle diameter	244 mm
Mounting holes	8 with diam. 7 mm
Net weight	5.16 kg

LF Recone Kit:
RK10NCX, part No: R2110N0108

HF Service Kit:
Diaphragm assembly:
DA75CT/h-16 part No: R412800716



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Frequency Response

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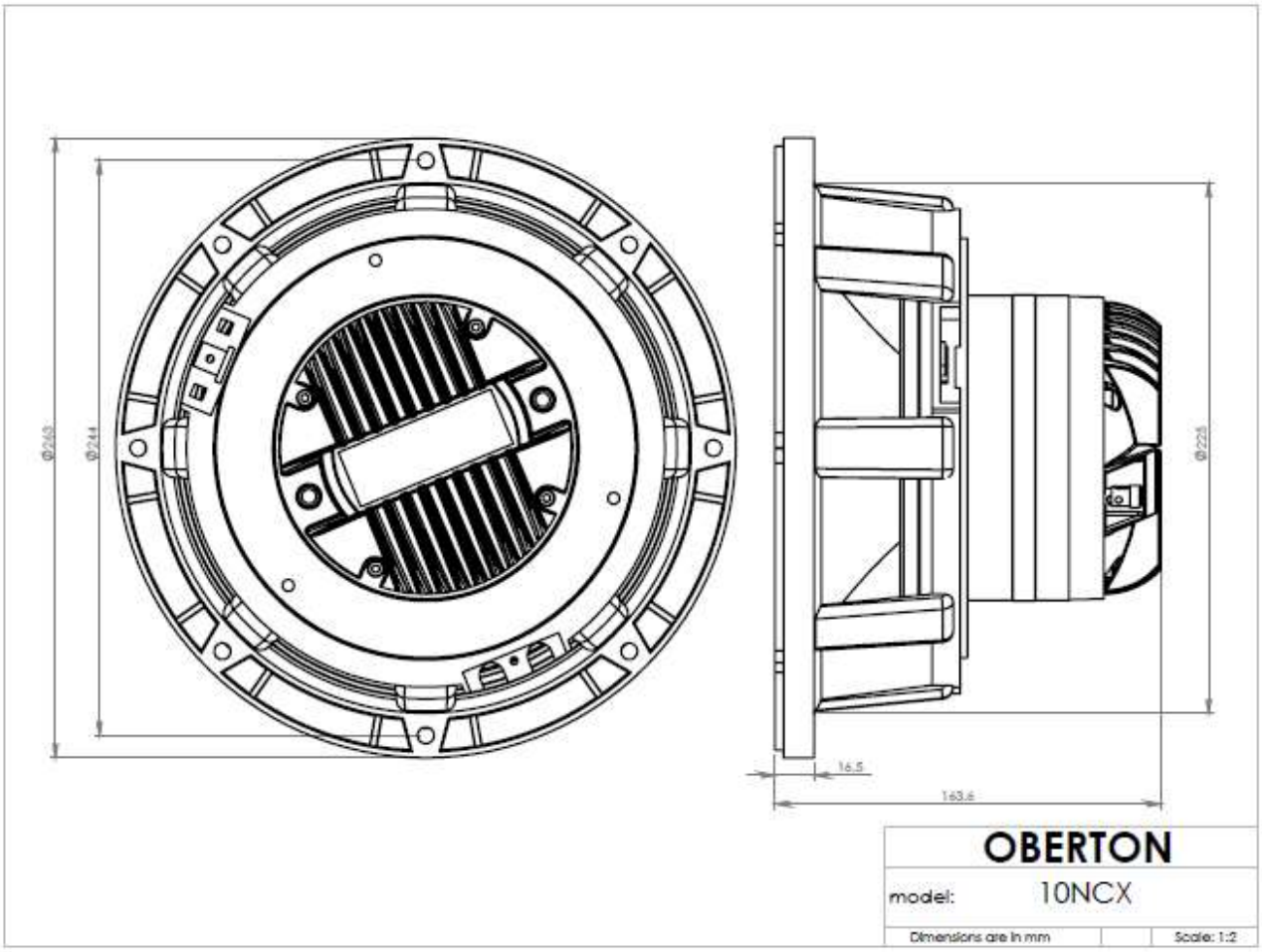

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