

[Home \(/en/\)](#) > [NEODYMIUM COAXIALS \(/en/products/neodymium-coaxials.html\)](#) > 12H4CX72

12H4CX72

[12H4CX72 \(/en/products/neodymium-coaxials/478-12h4cx72.html\)](#)

[Curves \(/en/products/neodymium-coaxials/478-12h4cx72.html?start=1\)](#)

[Drawings \(/en/products/neodymium-coaxials/478-12h4cx72.html?start=2\)](#)

[All Pages \(/en/products/neodymium-coaxials/478-12h4cx72.html?showall=1\)](#)

NEW 12" Coaxial Neodymium Loudspeaker, 4" LF + 2.85" HF voice coil, 400 W + 100 W , 98 dB + 110 dB



KEY FEATURES:

- 98 db SPL 1W / 1m (LF) average sensitivity
- 100 mm (4") high temperature voice coil (LF)
- 800 W AES program power (LF)

[Back to Top](#)

- Aluminium demodulating ring
- Silicon spider
- Copper plated pole piece and top plate (LF)
- Water protected cone - front
- 1.4" exit HF neodymium compression driver
- 72 mm (2.85") HF high temperature voice coil
- 60 degrees conical integrated horn

PART NUMBER: 13112N0108

Application: High Quality stage monitors and compact bass reflex boxes.

Description: The 12H4CX72 is a 12" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion 60 degrees conical.

The low profile, smooth curvilinear LF cone provides smooth response within its intended frequency range and water prove protective coating, allowing application in a wide range of environments. The state-of-the-art extreme light 100 mm (4 in) LF voice coil ensure low Mms which gives perfect voice reproduction.

The aluminium demodulating ring in the magnet structure reduces distortion and inductance and together with copper plated pole piece and top plate improve transient response.

The neodymium 1.4" exit compression driver adopted is our ND72HB model.

The HF driver diaphragm assembly, using hybrid dome this together with phasing plug improve linearity of frequency response in high end. The double magnetic structure allow to get maximum performance.

The HF part of 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	315 mm (12 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	7.28 Ohm
Frequency range	60 - 18000 Hz
Dispersion angle	60 deg conical

LF unit

Sensitivity (200-1000 Hz)	98 dB
Power Capacity AES ¹	400 W
Program Power ²	800 W
Voice Coil Diameter	100 mm (4 in)
Voice Coil Material	CCAW
Voice Coil Former	Glass fiber
V. C. Winding Depth	6 mm
Magnet Gap Depth	12 mm.
Cone Material	Paper with Kevlar fibers
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.37 T

HF unit

Minimum impedance HF	11.29 Ohms
DC resistance	10 Ohms
Sensitivity (1-10 kHz)	110 dB
Power capacity (1-20 kHz)	100 W

[Back to Top](#)

3.8.2021

12H4CX72

Program power	200 W
Voice coil diameter	72 mm (2.85 in)
Winding material	CCAW*
Diaphragm material	Hybrid
Flux density	2 T

THIELE-SMALL PARAMETERS

Fs	49.90 Hz
Qms	10,326
Qes	0.259
Qts	0.252
Vas	74,72 L
Mms	50,36 g
Re	6.5 Ohms
Sd	515 cm ²
Xmax*	± 4.5 mm
Cms	0.202 mm/N
BL	19.92 T.m
Le at 1kHz	0.445 mH

1. AES standard. Power is calculated on rated minimum impedance.

Measurement is in 65 L box enclosure tuned 63 Hz using a 50-500 Hz band limited pink noise test signal applied continuously for 2 hours.

2. Program power is defined as 3db greater than AES Power Capacity.

* Copper Clad Aluminium Wire

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

MOUNTING INFORMATION

Overall diameter	315 mm (12 in)
Depth	242 mm
Baffle hole diameter	280 mm
Bolt circle diameter	296/298mm
Mounting holes	8 elliptic 7x8 mm
Net weight	10,1 kg

LF Recone Kit:

RK12H4CX72, part No: R3112N0108

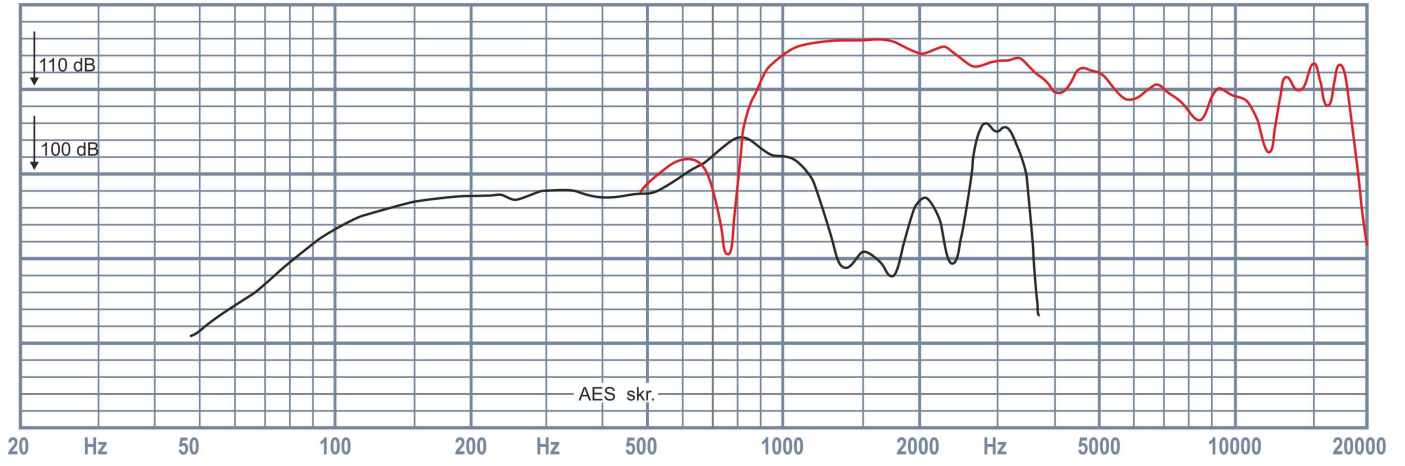
HF Service Kit:

Diaphragm assembly:

DA76HB/h-16 part No: R412800516

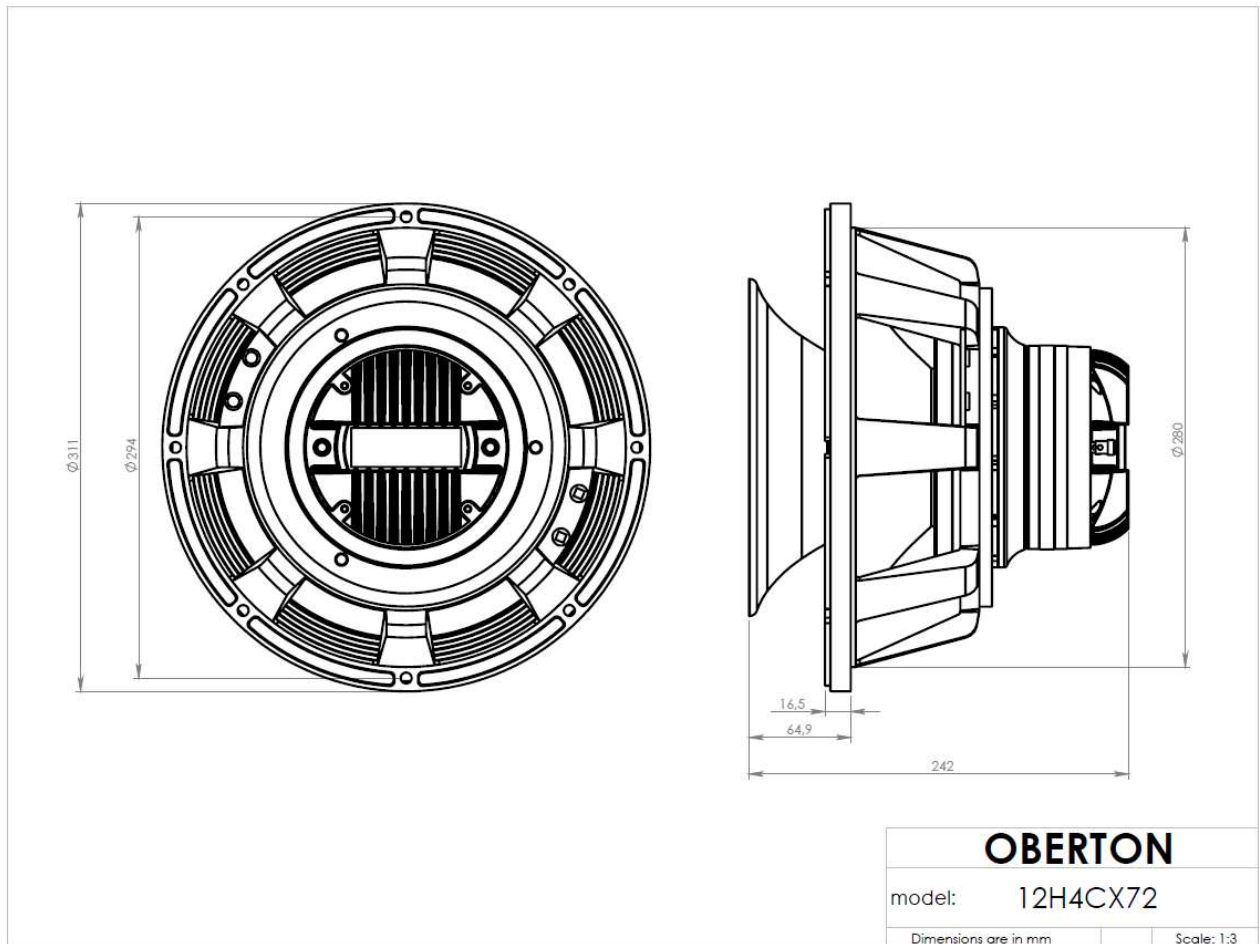
[Back to Top](#)

SPL 1W/1m OBERTON 12H4CX72



Frequency Response

Download **PDF** (/images/stories/pdfi/12H4CX72.PDF)



[Terms and conditions \(/en/terms-and-conditions.html\)](/en/terms-and-conditions.html)

[Privacy Policy \(/en/privacy-policy.html\)](/en/privacy-policy.html)

[Back to Top](#)