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# 15H4CX72

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**NEW** 15" Coaxial Neodymium Loudspeaker, 4" LF + 2.85" HF voice coil, 400 W + 100 W , 101.5 dB + 110 dB



## KEY FEATURES:

- 101.5 db SPL 1W / 1m ( LF ) average sensitivity
- 100 mm ( 4" ) high temperature voice coil ( LF )
- 800 W AES program power ( LF )
- 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:** 13115N0108

Application: Stage monitors and compact bass reflex boxes.

Description: The 15H4CX72 is a 15" / 1.4" coaxial transducer designed for use in compact reflex enclosures and high end 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	388 mm (15 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	7 Ohm
Frequency range	50 - 18000 Hz
Dispersion angle	60 deg

**LF unit**

Sensitivity (200-1000 Hz)	101.5 dB
Power Capacity AES <sup>1</sup>	400 W
Program Power <sup>2</sup>	800 W
Voice Coil Diameter	100 mm (4 in)
Voice Coil Material	Copper Clad Aluminium
Voice Coil Former	Glassfiber
V. C. Winding Depth	6 mm
Magnet Gap Depth	12 mm
Cone Material	Paper
Basket	Die Cast Aluminium
Magnet	Neodymium
Flux Density	1.37 T

**HF unit**

Minimum impedance HF	11.29 Ohms
DC resistance	10 Ohms
Sensitivity (1-15 kHz)	110 dB
Power capacity (1-20 kHz)	100 W
Program power	200 W
Voice coil diameter	72 mm (2.85 in)
Winding material	Copper Clad Aluminium
Diaphragm material	Hybrid
Flux density	2 T

**THIELE-SMALL PARAMETERS**

Fs  
Qms

3.8.2021

15H4CX72

Qes	56.29 Hz
Qts	11.50
Vas	0.379
Mms	0.367
Re	113.09 L
Sd	<b>55.65 g</b>
Xmax*	6.4 Ohms
Cms	750 cm <sup>2</sup>
BL	± 4.5 mm
Le at 1kHz	0.144 mm/N
	18.223 T.m
	0.381 mH

1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 125 L box enclosure tuned 56 Hz using a 40-400 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	388 mm (15 in)
Depth	242 mm
Baffle hole diameter	352 mm
Bolt circle diameter	370/372 mm
Mounting holes	8 elliptic 7x8 mm
Net weight	10.5 kg

#### LF Recone Kit:

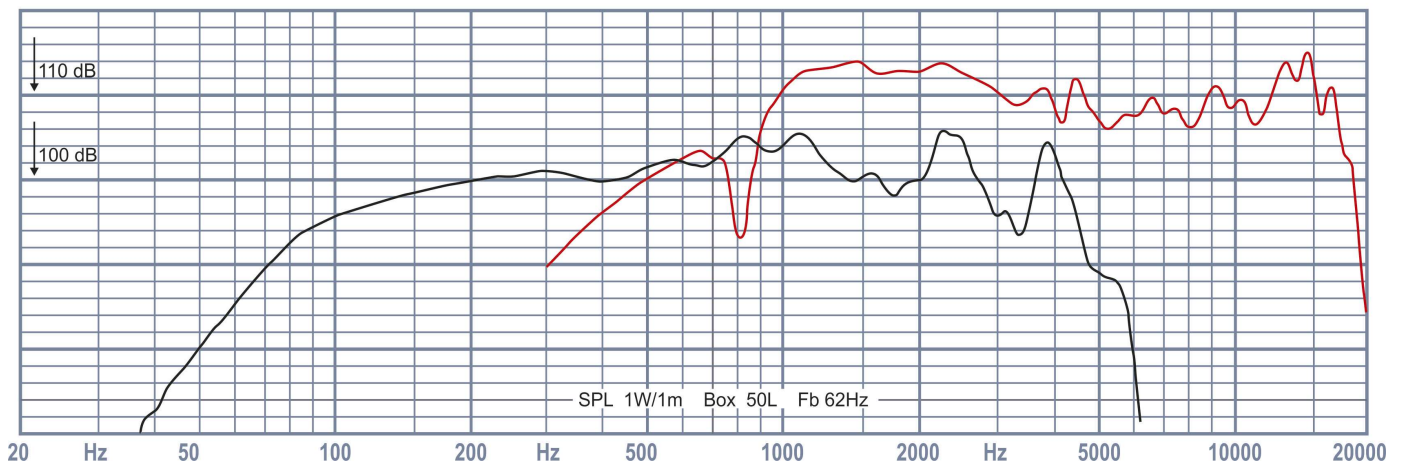
**RK15H4CX72**, part No: R3115N0108

#### HF Service Kit:

Diaphragm assembly:

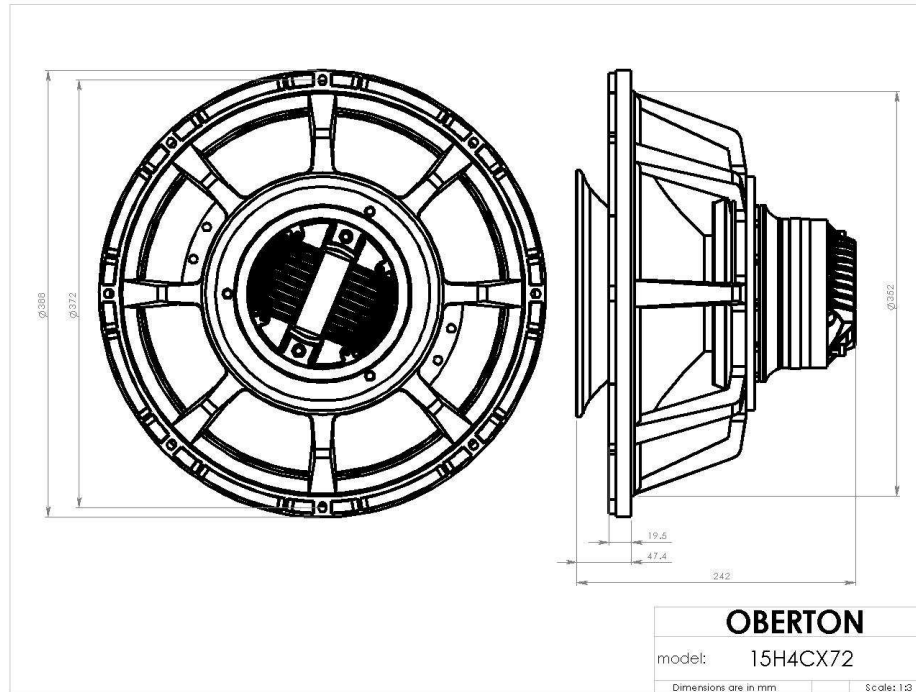
**DA76HB/h-16** part No: R412800516

SPL 1W/1m OBERTON 15H4CX72



## Frequency Response

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