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15HCX3572

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NEW 15" Coaxial Neodymium Loudspeaker, 3.5" LF + 2.85" HF voice coil, 450 W + 80 W , 101 dB +109 dB



KEY FEATURES

- 101 db SPL 1W / 1m (LF) average sensitivity
- 88 mm (3.5") high temperature voice coil (LF)
- 900 W AES program power (LF)
- Triple aluminium demodulating rings
- Silicone spider
- Water protected cone (front)
- 1.4" exit HF neodymium compression driver
- 72mm (2.85") HF high temperature voice coil
- 80x60 degrees nominal dispersion
- Very light weight

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PART NUMBER: 13115N0208

Application: Stage monitors and compact bass reflex boxes.

Description: The 15HCX3572 is a 15" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80x60 degrees.

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 88 mm (3.5 in) LF voice coil has Glassfiber former, which together with high temperature resistant resin ensure high reliability by high power.

A triple 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.

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	388 mm (15 in)
Impedance	LF 8 Ohm /HF 16 Ohm
Minimum impedance LF	5.97 Ohm
Frequency range	50 - 16000 Hz
Dispersion angle	80x60 deg

LF unit

Sensitivity (200-2000 Hz)	101 dB
Power Capacity AES ¹	450 W
Program Power ²	900 W
Voice Coil Diameter	88 mm (3.5 in)
Voice Coil Material	CCAW*
Voice Coil Former	Glassfiber
V. C. Winding Depth	19 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	13.8 Ohms
DC resistance	9.47 Ohms
Sensitivity (1-15 kHz)	109 dB
Power capacity (1-20 kHz)	80 W
Program power	160 W
Voice coil diameter	72 mm (2.85 in)
Winding material	CCAW*
Diaphragm material	cotton composite
Flux density	1.9 T

THIELE-SMALL PARAMETERS

Fs	46.28 Hz
Qms	11.62

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3.8.2021

15HCX3572

Qes	0.35
Qts	0.34
Vas	140.68 L
Mms	80.77 g
Re	5.30 Ohms
Sd	829 cm ²
Xmax*	± 7.25 mm
Cms	0.1464 mm/N
BL	18.81 T.m
Le at 1kHz	0.573mH

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

Measurement is in 60 L box enclosure tuned 70 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.

* Copper Clad Aluminium Wire

* 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	220 mm
Baffle hole diameter	355 mm
Bolt circle diameter	370/372 mm
Mounting holes	8 elliptic 7x8 mm
Net weight	7.05 kg

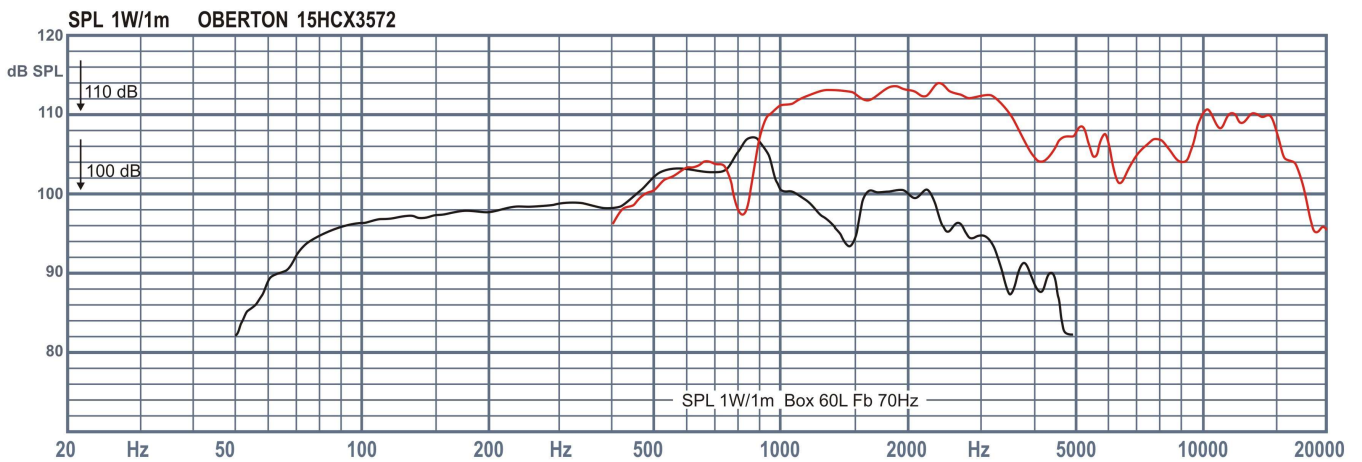
LF Recone Kit:

RK15HCX3572, part No: R3115N0208

HF Service Kit:

Diaphragm assembly:

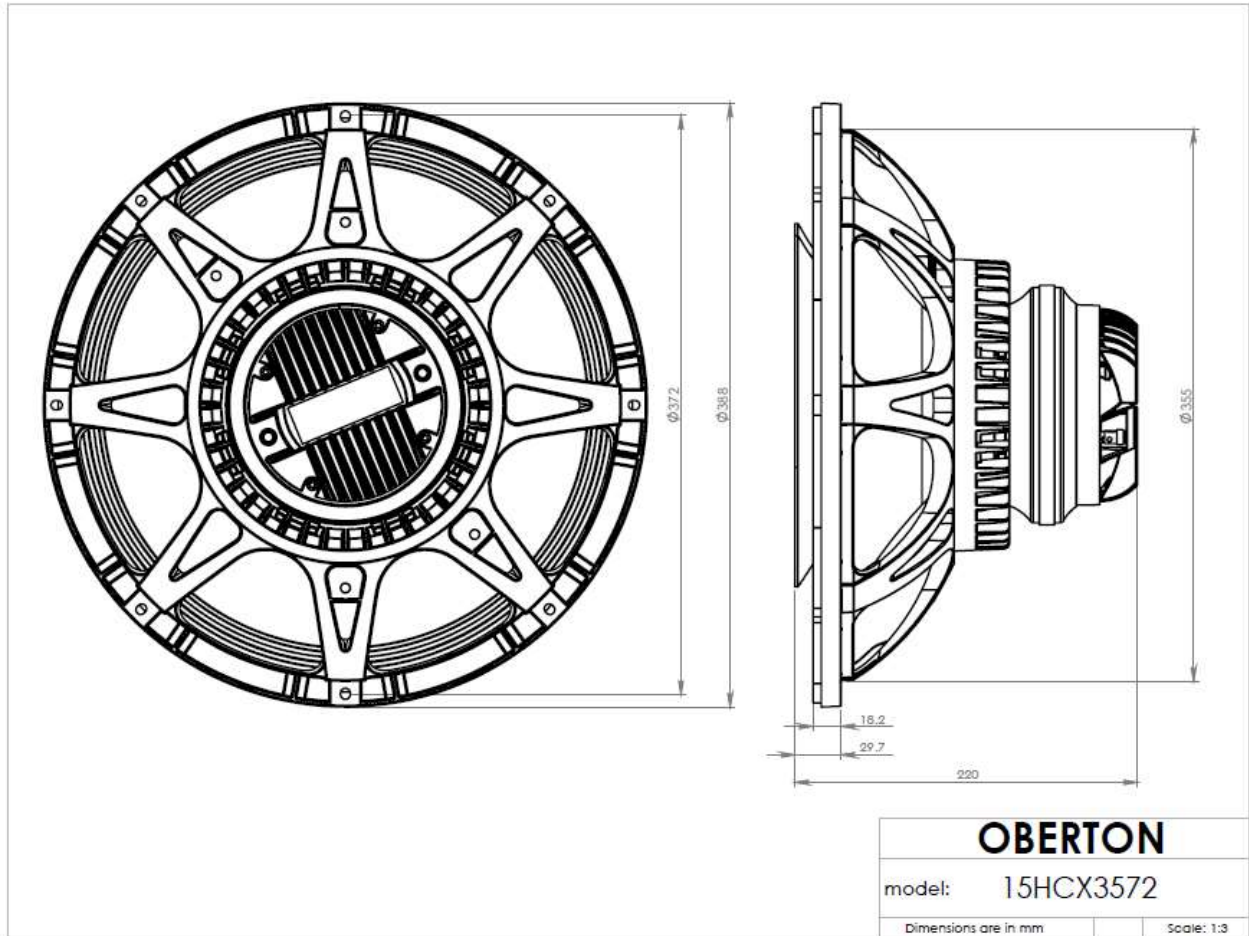
DA76CT/h-16 part No: R412800316



Frequency Response

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