



KEY FEATURES:

99 db SPL 1W / 1m (LF) average sensitivity 77 mm (3") high temperature voice coil (LF) 900 W AES program power (LF) Triple aluminium demodulating rings Double silicone spider Water protected cone 1.4" exit HF neodymium compression driver 72 mm (2.85") HF high temperature voice coil Integrated 80 x 60 deg. dispersion horn Very light weight

Application: Stage monitors and compact bass reflex boxes.

Description: The 15HCX is a 15" / 1.4" coaxial transducer designed for use in compact reflex enclosures and stage monitors with a nominal dispersion of 80 x 60 degrees.

The low profile, curvilinear LF cone provides smooth response within its intended frequency range. The water prove protective coating of the cone, allowing application in a wide range of environments. The state-of-the-art 77 mm (3 in) LF voice coil has Kapton 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 ND3672 model.

The HF driver diaphragm assembly, using double layer polyester 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.



OBERTON Professional Loudspeakers

SPECIFICATIONS

Copper Kapton

20 mm

9 mm

1.1 T

Neodymium

11.10 Ohms

72 mm (2.85 in)

sandwich polyester

Aluminium

10 Ohms

110 dB

75 W

150 W

1.85 T

Paper with glassfiber

Die Cast Aluminium

Nominal diameter
Impedance
Minimum impedance LF
Frequency range
Dispersion angle

LF unit

Sensitivity (200-2000 Hz) Power Capacity AES 1 Program Power² Voice Coil Diameter Voice Coil Material Voice Coil Former Voice Coil Winding Depth Magnet Gap Depth Cone Material Basket Magnet Flux Density

HF unit

Minimum impedance HF DC resistance Sensitivity (1000-15000 Hz) Power capacity (1000-20000 Hz) Program power Voice coil diameter Winding material Diaphragm material Flux density

THIELE-SMALL PARAMETERS

388 mm (15 in)	Resonance Frequency	40.72 Hz
LF 8 Ohm /HF 16 Ohm	Mechanical Efficiency Factor (Qms)	6.1
6.18 Ohm	Electrical Efficiency Factor (Qes)	0.316
50 - 16000 Hz	Total Q (Qts)	0.30
80 x 60 deg	Equivalent Air Volume (Vas)	205.54 L
	Diaphragm mass ind. airload (Mms)	71.41 g
	Voice Coil Resistance Re	5.05 Ohms
99 dB	Effective Diagram Area (Sd)	829 cm2
450 W	Peak Linear Displacement of Diaphragm (Xmax)*	± 7.75 mm
900 W	Mechanical Compliance of Suspension (Cms)	0.214 mm/N
77 mm (3 in)	BL Product (BL)	17.08 T.m
Copper	V.C. Inductance at 1 kHz (Le)	0.642 mH

MOUNTING INFORMATION

Overall diameter	388 mm (15 in)
Depth	227 mm
Baffle hole diameter	352 mm
Bolt circle diameter	370/372 mm
Number of mounting holes	8 eliptic 7x8 mm
Net weight	6.6 kg

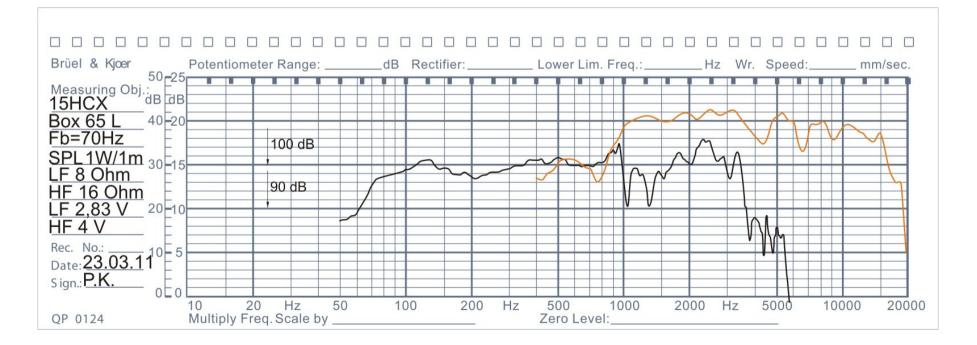
1. AES standard. Power is calculated on rated minimum impedance. Measurement is in 125 L box enclosure tuned 56 Hz using a 40-400 Hz band limited pink noise test signal applied continuously for 2 hours.

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.





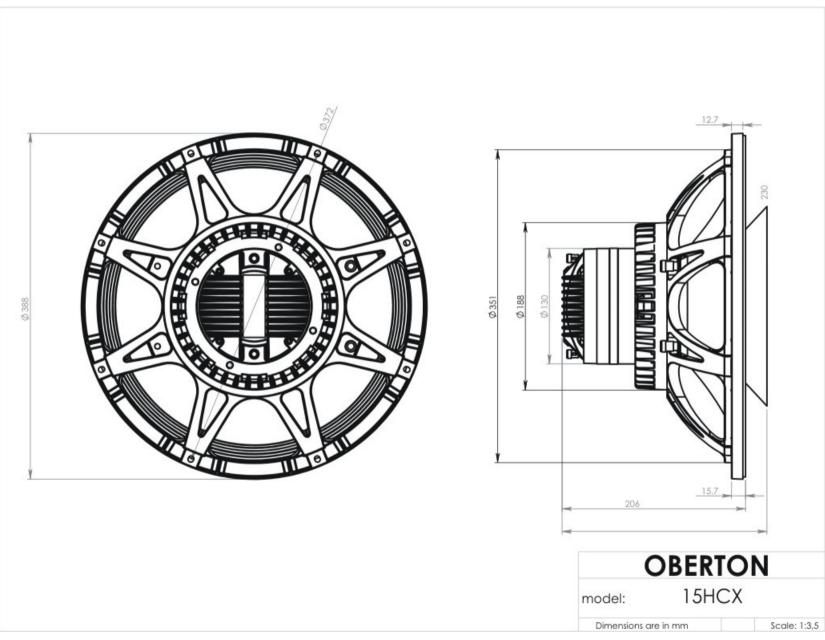












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