beyma

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6CX200Nd

COAXIAL TRANSDUCER

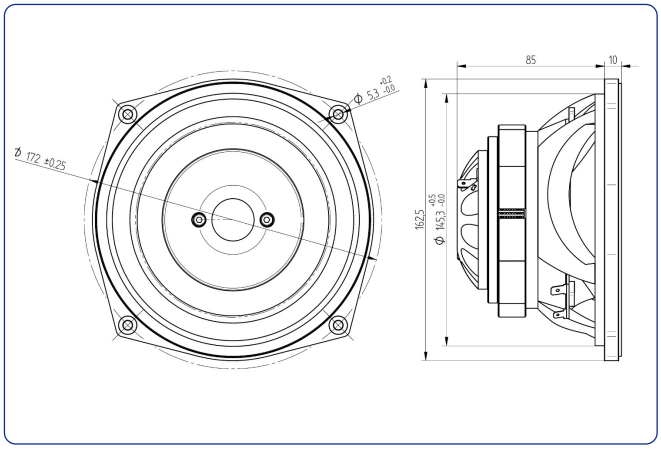
KEY FEATURES

- 200 W AES power handling capacity for LF unit
- 40 W AES power handling capacity for HF unit
- High sensitivity: 92 dB (LF) and 102 dB (HF)
- Low Resonant frequency: 65 Hz
- Extended controlled displacement: Xmax ± 5.1 mm
- Extended mechanical displacement capability: Xpp 18 mm
- CONEX spider
- Designed with *MMSS technology*
- Common Neodymium magnet system for both units
- Low weight and mounting depth
- Excellent off-axis response. 70º conical dispersion.

TECHNICAL SPECIFICATIONS

Nominal diameter		165 mm. 6.5 in.
Rated impedance		8 ohms
Minimum impedance		5.9 ohms
Power capacity*(LF/HF)		200 / 40 w AES
Program power(LF/HF)		400 / 80 w
Sensitivity (LF/HF)	92 dB / 102 dB	2.83v @ 1m @ 2π
Frequency range		60 - 20000 Hz
Recom. enclosure vol.	6 / 20 l	0.21 / 0.71 ft.^{3}
Voice coil diameter		51.7 mm. 2 in.
Magnetic assembly weight		1.2kg. 2.64 lb.
BL factor		10.1 N / A
Moving mass		0.017 kg.
Voice coil length		14 mm
Air gap height		9 mm
X damage (peak to peak)		18 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, fs	65 Hz
D.C. Voice coil resistance, Re	5.3 ohms
Mechanical Quality Factor, Qms	3.58
Electrical Quality Factor, Qes	0.34
Total Quality Factor, Qts	0.30
Equivalent Air Volume to Cms, Vas	8.25 l
Mechanical Compliance, Cms	324 µm / N
Mechanical Resistance, Rms	2.01 kg / s
Efficiency, ηo (%)	0.74
Effective Surface Area, Sd (m^2)	0.0135 m^2
Maximum Displacement, Xmax* **	5.1 mm
Displacement Volume, Vd	68.85 cm^3
Voice Coil Inductance, Le @ 1 kHz	0.6 mH

MOUNTING INFORMATION

Overall diameter	162.5 mm.	6.40 in.
Bolt circle diameter	172.5 mm.	6.79 in.
Baffle cutout diameter:		
- Front mount	145.3 mm.	5.72 in.
- Rear mount	145.3 mm.	5.72 in.
Overall Depth	95 mm.	3.74 in.
Mounting Depth	85mm.	3.35 in.
Volume displaced by driver	0.55 l.	0.02 ft.^{3}
Net weight	1.9 kg.	4.18 lb.
Shipping weight	2.5 kg.	5.5 lb.

Notes:

*The power capacity is determined according to AES2-1984 (r2003) standard.
Program power is defined as the transducer's ability to handle normal music program material.

**T-S parameters are measured after an exercise period using a preconditioning power test.
The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

***The Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.

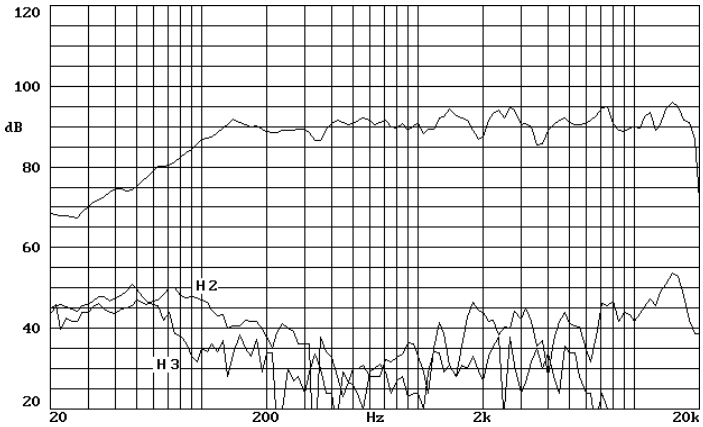
beyma

PROFESSIONAL LOUDSPEAKERS
www.beyma.com

6CX200Nd

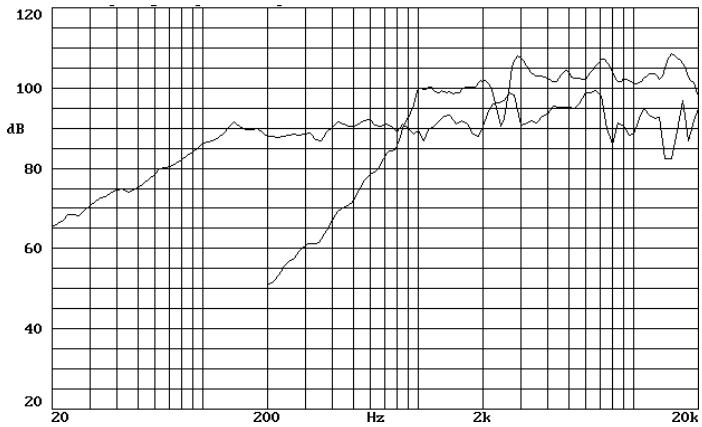
COAXIAL TRANSDUCER

FREQUENCY RESPONSE AND DISTORTION

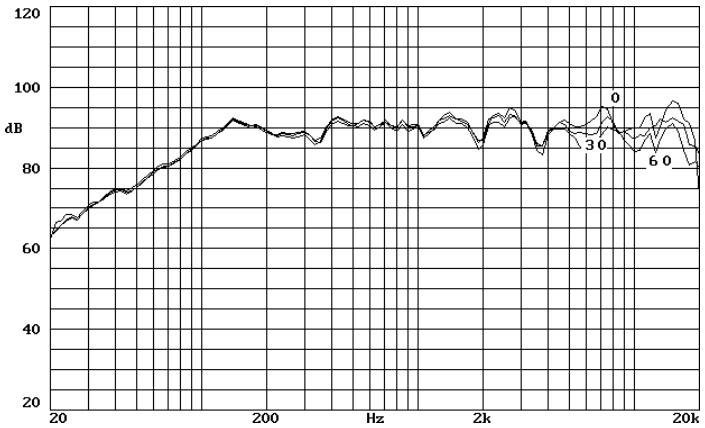


Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.
Crossover frequency set at 3kHz@12dB/oct.

LF/HF DRIVER RESPONSE



OFF-AXIS FREQUENCY RESPONSE



beyma

Polígono Industrial Moncada II · C/. Pont Sec, 1c · 46113 MONCADA - Valencia (Spain)
· Tel. (34) 96 130 13 75 · Fax (34) 96 130 15 07 · http://www.beyma.com · E-mail: beyma@beyma.com ·