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PROFESSIONAL LOUDSPEAKERS
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6CX200Nd/N

COAXIAL TRANSDUCER

KEY FEATURES

- High power handling: 400 / 80 W program power
- High sensitivity: 92 / 103 dB (1W / 1m) (LF / HF)
- 2" / 1,75" voice coil (LF/HF)
- Common neodymium magnet system design
- Weatherproof paper cone with Santoprene™ surround
- CONEX spider
- Shorting cap for extended response
- Extended controlled displacement: X_{max} ± 5,5 mm
- 26 mm peak-to-peak excursion before damage
- Polyester HF diaphragm
- Excellent off-axis response
- 70º coverage horn for HF dispersion control





TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		5,4 / 5,0 Ω
Power capacity [1] (LF/HF)		200 / 40 W_{AES}
Program power [2] (LF/HF)		400 / 80 W
Sensitivity (LF/HF [3])	92 dB	1W / 1m @ Z_N
	103 dB	1W / 1m @ Z_N
Frequency range		65 - 20.000 Hz
Recom. HF crossover		2,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	50,8 mm	2 in
	44,4 mm	1,75 in
Bl factor		10,5 N/A
Moving mass		0,016 kg
Voice coil length		14 mm
Air gap height		7 mm
X_{damage} (peak to peak)		26 mm

THIELE-SMALL PARAMETERS [4]

Resonant frequency, f_s	65 Hz
D.C. Voice coil resistance, R_e	5,0 Ω
Mechanical Quality Factor, Q_{ms}	3,9
Electrical Quality Factor, Q_{es}	0,29
Total Quality Factor, Q_{ts}	0,27
Equivalent Air Volume to C_{ms}, V_{as}	9,4 l
Mechanical Compliance, C_{ms}	366 μm / N
Mechanical Resistance, R_{ms}	1,7 kg / s
Efficiency, η_0	0,9 %
Effective Surface Area, S_d	0,0135 m^2
Maximum Displacement, X_{max} [5]	5,5 mm
Displacement Volume, V_d	69 cm^3
Voice Coil Inductance, L_e	0,24 mH

Notes:

[1] The power capaticty is determined according to AES2-1984 (r2003) standard.

[2] Program power is defined as power capacity + 3 dB.

[3] Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz

[4] 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).

[5] The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3{,}5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

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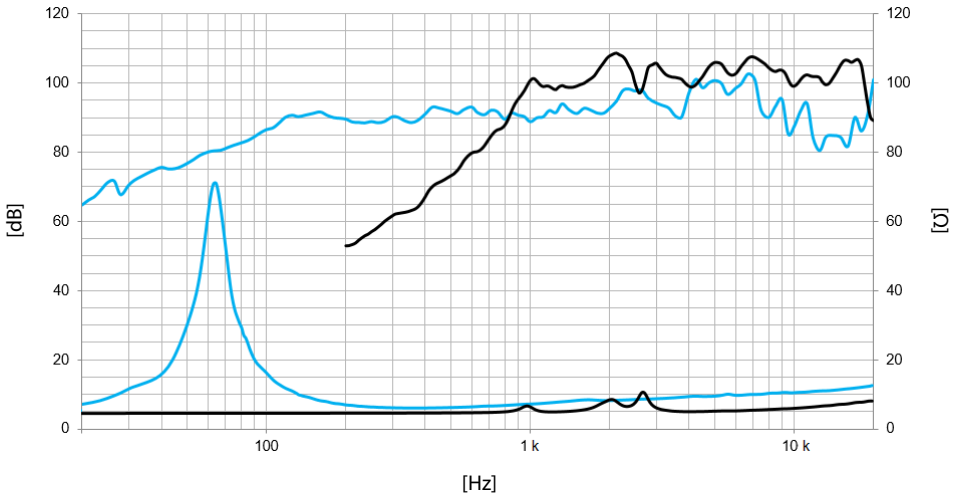
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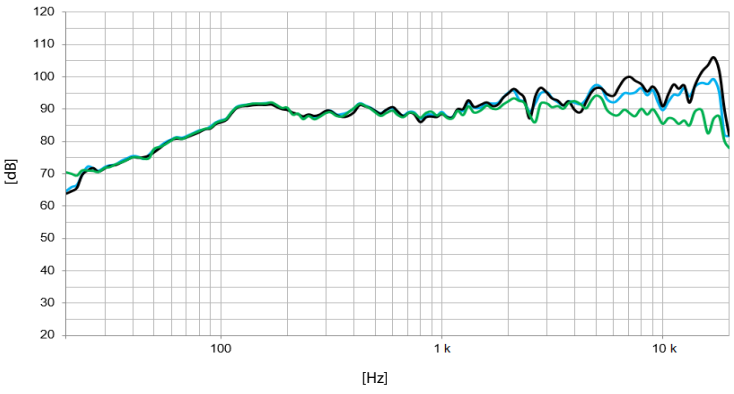
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

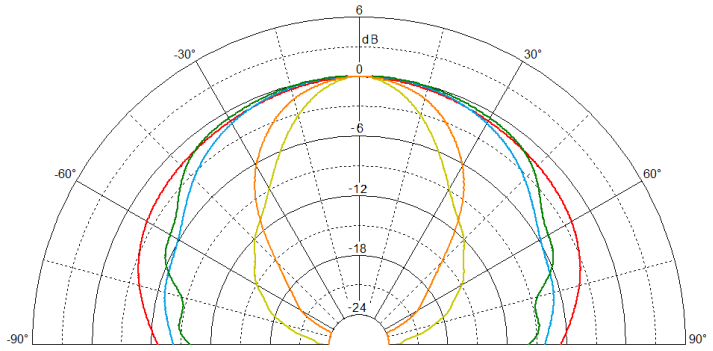
FILTERED FREQUENCY RESPONSE



0 degrees | 35 degrees | 70 degrees

Note: Filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m using filter FD-2CX

POLAR PATTERN

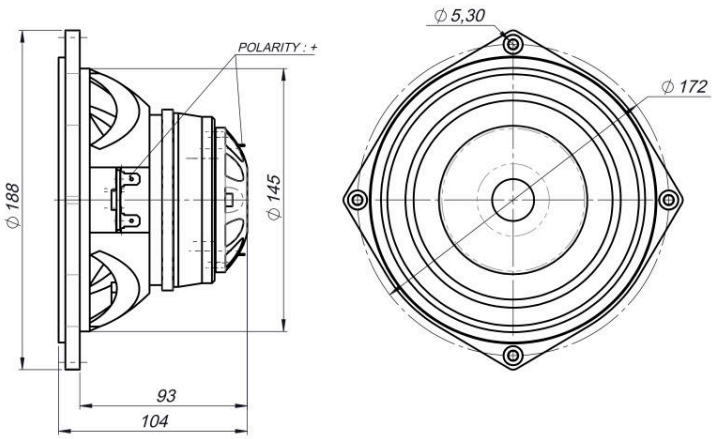


1 kHz | 2 kHz | 4 kHz | 8 kHz | 16 kHz

MOUNTING INFORMATION

Overall diameter	188 mm	7,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter:		
- Front mount	145 mm	5,7 in
Depth	104 mm	4,1 in
Volume displaced by driver	0,55 l	0,02 ft³
Net weight	2,0 kg	4,4 lb
Shipping weight	2,2 kg	4,9 lb

DIMENSION DRAWING



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