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PROFESSIONAL LOUDSPEAKERS
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6CX200Fe

COAXIAL TRANSDUCER

KEY FEATURES

- High power handling: 400 / 50 W program power
- High sensitivity: 94 / 102 dB (1W / 1m) (LF / HF)
- 2” / 1” voice coil (LF/HF)
- Shorting cap for extended response
- Weatherproof paper cone with Santoprene™ surround
- CONEX spider
- Extended controlled displacement: X_{max} ± 5 mm
- 32 mm peak-to-peak excursion before damage
- PM4 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)		5,3 / 6,0 Ω
Power capacity [1] (LF/HF)		200 / 25 W_{AES}
Program power [2] (LF/HF)		400 / 50 W
Sensitivity (LF/HF [3])	94 dB	1W / 1m @ Z_N
	102 dB	1W / 1m @ Z_N
Frequency range		60 - 20.000 Hz
Recom. HF crossover		3,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	50,8 mm	2 in
	25,4 mm	1 in
Bl factor		9,2 N/A
Moving mass		0,014 kg
Voice coil length		13 mm
Air gap height		7 mm
X_{damage} (peak to peak)		32 mm

THIELE-SMALL PARAMETERS [4]

Resonant frequency, f_s	65 Hz
D.C. Voice coil resistance, R_e	4,9 Ω
Mechanical Quality Factor, Q_{ms}	5,1
Electrical Quality Factor, Q_{es}	0,34
Total Quality Factor, Q_{ts}	0,32
Equivalent Air Volume to C_{ms}, V_{as}	10,5 l
Mechanical Compliance, C_{ms}	408 μm / N
Mechanical Resistance, R_{ms}	1,1 kg / s
Efficiency, η_0	0,8 %
Effective Surface Area, S_d	0,0135 m^2
Maximum Displacement, X_{max} [5]	5 mm
Displacement Volume, V_d	64 cm^3
Voice Coil Inductance, L_e	0,3 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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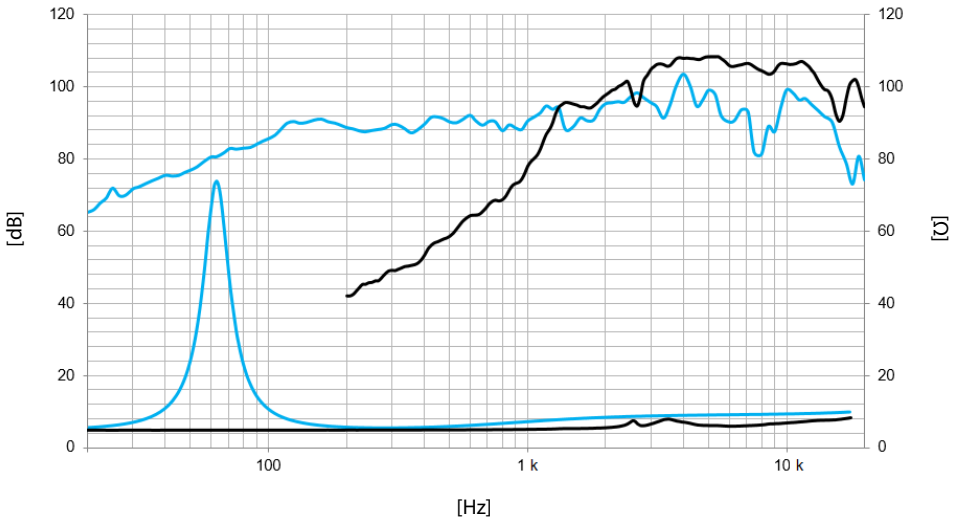
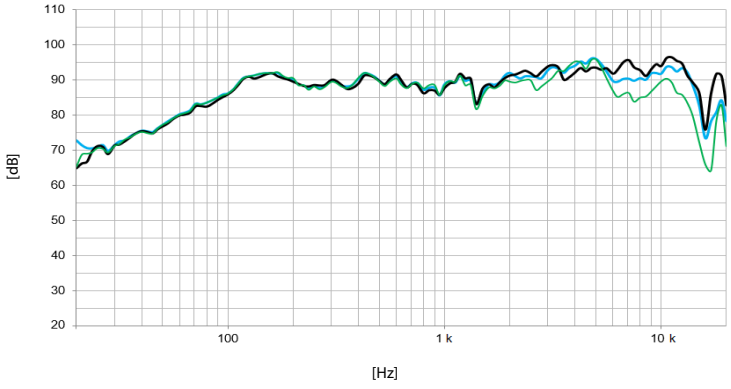


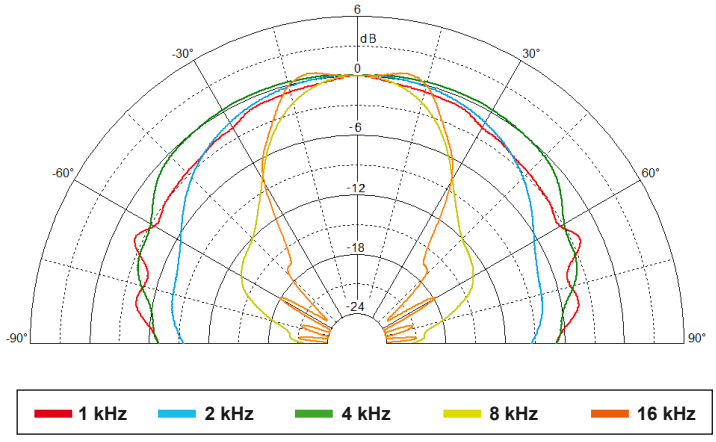
Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

FILTERED FREQUENCY RESPONSE



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

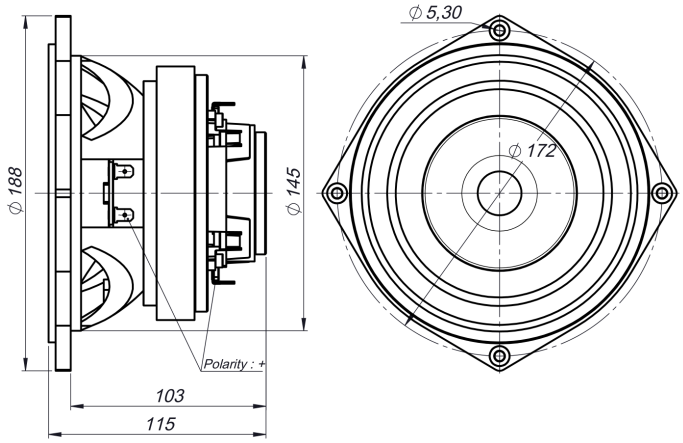
POLAR PATTERN



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	115 mm	4,5 in
Volume displaced by driver	0,55 l	0,02 ft³
Net weight	3,6 kg	7,9 lb
Shipping weight	4,0 kg	8,8 lb

DIMENSION DRAWING



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