beyma

PROFESSIONAL LOUDSPEAKERS
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5CX200Fe

COAXIAL TRANSDUCER

KEY FEATURES

- High power handling: 300 / 50 W program power
- High sensitivity: 92 / 105 dB (1W / 1m) (LF / HF)
- 1,5" / 1" voice coil (LF/HF)
- Shorting cap for extended response
- Weatherproof paper cone with Santoprene™ surround
- CONEX spider
- Extended controlled displacement: X_{max} ± 5,7 mm
- 21 mm peak-to-peak excursion before damage
- PM4 diaphragm for natural sound
- Excellent off-axis response
- 70º coverage horn for HF dispersion control

TECHNICAL SPECIFICATIONS

Nominal diameter	125 mm	5 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		5,2 / 5,9 Ω
Power capacity [1] (LF/HF)		150 / 25 W_{AES}
Program power [2] (LF/HF)		300 / 50 W
Sensitivity (LF/HF [3])	92 dB	1W / 1m @ Z_N
	105 dB	1W / 1m @ Z_N
Frequency range		85 - 20.000 Hz
Recom. HF crossover		3,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	38,1 mm	1,5 in
	25,4 mm	1 in
Bl factor		7,4 N/A
Moving mass		0,009 kg
Voice coil length		14 mm
Air gap height		6 mm
X_{damage} (peak to peak)		21 mm

THIELE-SMALL PARAMETERS [4]

Resonant frequency, f_s	82 Hz
D.C. Voice coil resistance, R_e	5,1 Ω
Mechanical Quality Factor, Q_{ms}	9,1
Electrical Quality Factor, Q_{es}	0,43
Total Quality Factor, Q_{ts}	0,41
Equivalent Air Volume to C_{ms}, V_{as}	5,3 l
Mechanical Compliance, C_{ms}	419 µm / N
Mechanical Resistance, R_{ms}	0,5 kg / s
Efficiency, η_0	0,65 %
Effective Surface Area, S_d	0,0095 m^2
Maximum Displacement, X_{max} [5]	5,7 mm
Displacement Volume, V_d	48 cm^3
Voice Coil Inductance, L_e	0,25 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 3 - 10 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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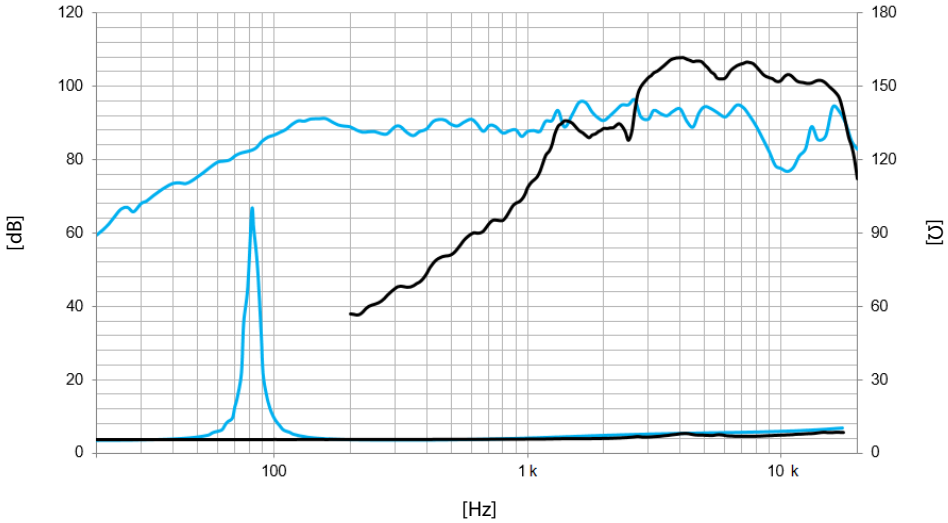
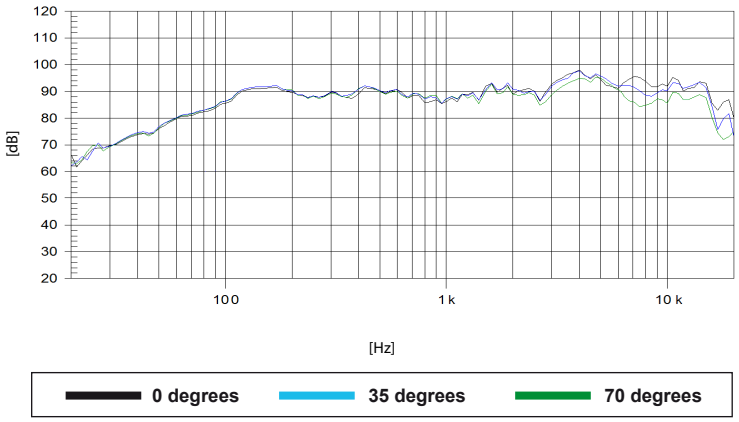


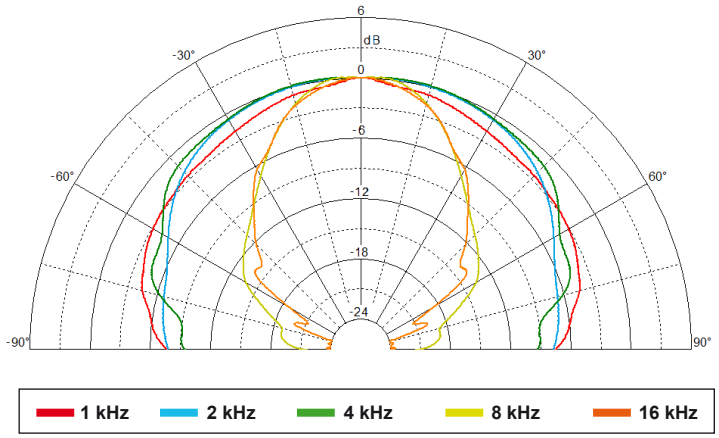
Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

FILTERED FREQUENCY RESPONSE



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

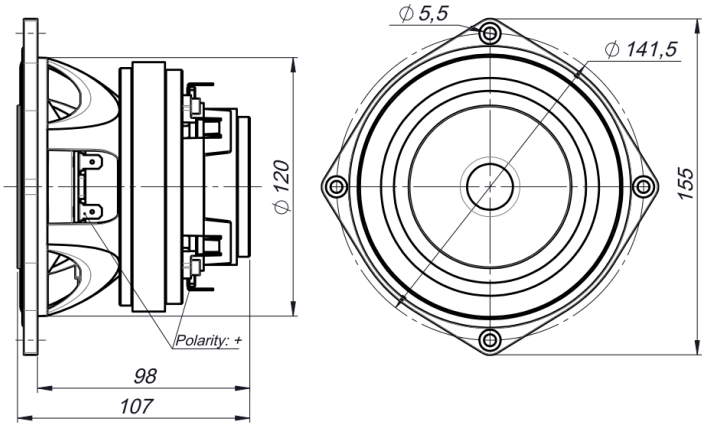
POLAR PATTERN



MOUNTING INFORMATION

Overall diameter	155 mm	6,1 in
Bolt circle diameter	141,5 mm	5,6 in
Baffle cutout diameter:		
- Front mount	120 mm	4,7 in
Depth	107 mm	4,2 in
Volume displaced by driver	0,5 l	0,02 ft³
Net weight	2,5 kg	5,5 lb
Shipping weight	2,6 kg	5,7 lb

DIMENSION DRAWING



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