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PROFESSIONAL LOUDSPEAKERS
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6CX200Fe
COAXIAL TRANSDUCER
Preliminary Data Sheet

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		6,0 / 5,9 Ω
Power capacity* (LF/HF)		200 / 25 W_{AES}
Program power (LF/HF)		400 / 50 W
Sensitivity (LF/HF**)	92 / 103 dB	@ 1W @ Z_N
Frequency range		60 - 20.000 Hz
Recomended crossover		3,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	50,8 mm	2 in
	44,45 mm	1,75 in
Air gap height		7 mm
Voice coil length		13 mm
BI factor		7,97 N/A
Moving mass		0,010 kg

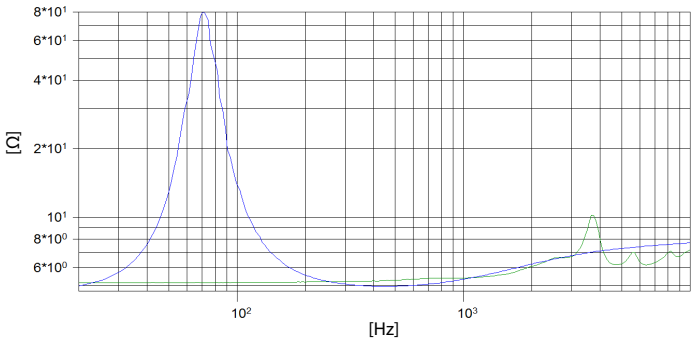
THIELE-SMALL PARAMETERS***

Resonant frequency, f_s	71 Hz
D.C. Voice coil resistance, R_e	4,8 Ω
Mechanical Quality Factor, Q_{ms}	3,95
Electrical Quality Factor, Q_{es}	0,35
Total Quality Factor, Q_{ts}	0,32
Equivalent Air Volume to C_{ms}, V_{as}	12,1 l
Mechanical Compliance, C_{ms}	476 μm / N
Mechanical Resistance, R_{ms}	1,17 kg / s
Efficiency, η_0	1,21 %
Effective Surface Area, S_d	0,0135 m^2
Maximum Displacement, X_{max} ****	5 mm
Voice Coil Inductance, L_e	0,22 mH

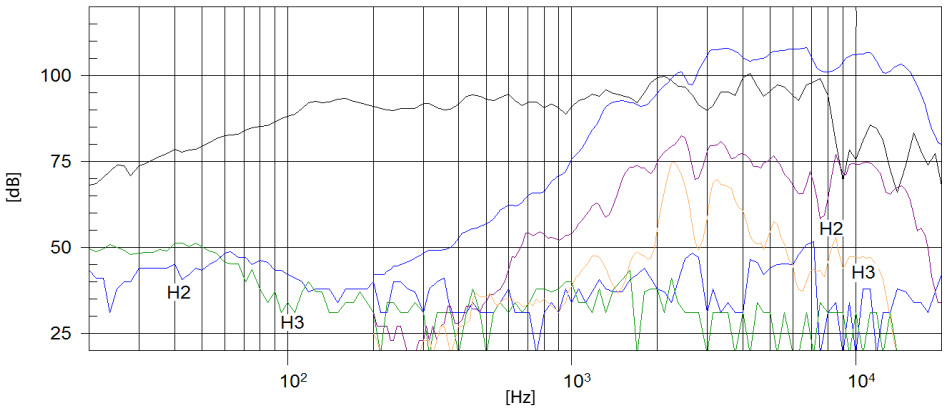
MOUNTING INFORMATION

Overall diameter	162,5 mm	6,40 in
Bolt circle diameter	121,6 mm	4,79 in
Baffle cutout diameter	145,3 mm	5,72 in
Depth	106 mm	4,17 in
Net weight	3,58 kg	7,89 lb

FREE AIR IMPEDANCE CURVE



FREQUENCY RESPONSE AND DISTORTION



Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m.

Notes:

This datasheet is done with the measurements of a laboratory prototype. Small differences may appear once the driver is transferred to the production line and manufactured in big quantities. Please refer to the serial datasheet for the definitive information of the average production.

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

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

*** 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 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.