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PROFESSIONAL LOUDSPEAKERS
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8CFX260Nd

COAXIAL TRANSDUCER
Preliminary Data Sheet

KEY FEATURES

- High performance 8” coaxial speaker
- 2,5” / 2,85” voice coil diameter design (LF / HF)
- High power hadling 500 / 120 W program power
- High sensitivity 97 / 103 dB (1W / 1m) (LF / HF)
- Lightweight common neodymium magnetic circuit
- Cast frame speaker
- Features a waterproof carbon fiber cone
- Demodulation ring for linear and extended response and lower distortion
- For all high quality sound single point source applications including house of worship, studio monitors, home theater systems, movie theater, small PA systems, etc.





TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		6,8 / 6,9 Ω
Power capacity [1] (LF/HF)		250 / 60 W_{AES}
Program power [2] (LF/HF)		500 / 120 W
Sensitivity (LF/HF [3])	97 dB	1W / 1m @ Z_N
	103 dB	1W / 1m @ Z_N
Frequency range		100 - 20.000 Hz
Recom. HF crossover		1,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	63,5 mm	2,5 in
	72,4 mm	2,85 in
Bl factor		13,5 N/A
Moving mass		0,021 kg
Voice coil length		15 mm
Air gap height		7 mm
X_{damage} (peak to peak)		20 mm

THIELE-SMALL PARAMETERS [4]

Resonant frequency, f_s	100 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	4,8
Electrical Quality Factor, Q_{es}	0,37
Total Quality Factor, Q_{ts}	0,35
Equivalent Air Volume to C_{ms}, V_{as}	8 l
Mechanical Compliance, C_{ms}	119 μm / N
Mechanical Resistance, R_{ms}	2,7 kg / s
Efficiency, η_0	2,2 %
Effective Surface Area, S_d	0,022 m^2
Maximum Displacement, X_{max} [5]	6 mm
Displacement Volume, V_d	132 cm^3
Voice Coil Inductance, L_e	0,23 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.

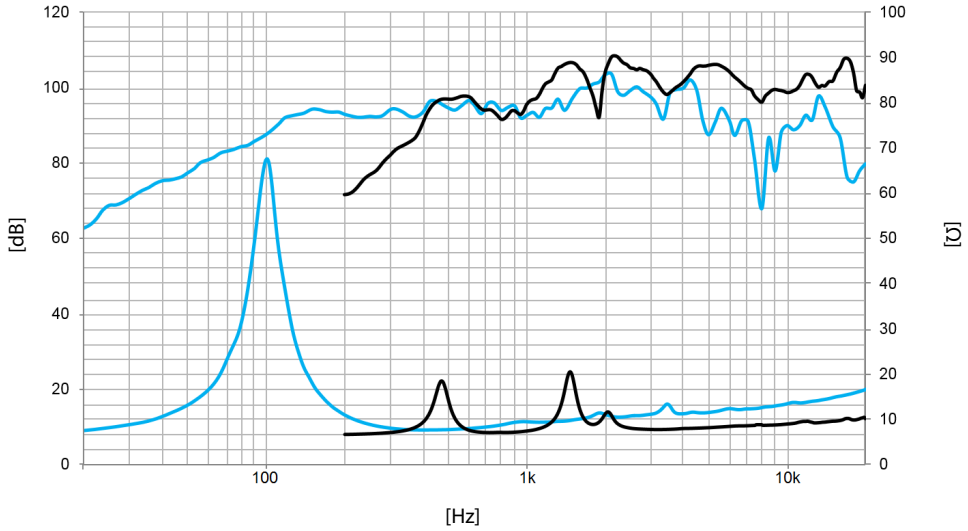
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Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	212 mm	8,3 in
Bolt circle diameter	195 mm	7,7 in
Baffle cutout diameter:		
- Front mount	181 mm	7,1 in
Depth	134 mm	5,3 in
Net weight	4,9 kg	10,8 lb
Shipping weight	5,2 kg	11,5 lb

DIMENSION DRAWING

