

### KEY FEATURES

- High power handling: 250 / 50 W<sub>AES</sub> (LF / HF)
- High sensitivity: 96 / 104 dB (LF / HF)
- Low resonant frequency: 61 Hz
- Low weight and compact common magnet system design
- Demodulating ring for low harmonic distortion
- PM4 diaphragm allows a natural sound
- Waterproof Carbon Fiber loaded paper cone with Santoprene surround for high efficiency
- 70° coverage horn for HF dispersion control

### TECHNICAL SPECIFICATIONS

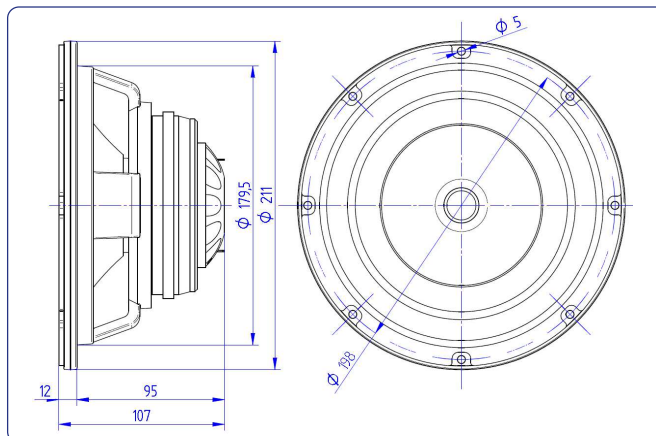
Nominal diameter	200 mm	8 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		5,3 / 4,7 Ω
Power capacity* (LF/HF)		250 / 50 W <sub>AES</sub>
Program power (LF/HF)		500 / 100 W
Sensitivity (LF/HF**)		96 dB 1W @ Z <sub>N</sub>
		104 dB 1W @ Z <sub>N</sub>
Frequency range		60 - 20.000 Hz
Recom. HF crossover		1,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	63,5 mm	2,5 in
	44,45 mm	1,75 in
BL factor		9,4 N/A
Moving mass		0,013 kg
Voice coil length		15 mm
Air gap height		7 mm
X <sub>damage</sub> (peak to peak)		24 mm

### THIELE-SMALL PARAMETERS\*\*\*

Resonant frequency, f <sub>s</sub>	61 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	13,3
Electrical Quality Factor, Q <sub>es</sub>	0,28
Total Quality Factor, Q <sub>ts</sub>	0,27
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	36,2 l
Mechanical Compliance, C <sub>ms</sub>	529 μm / N
Mechanical Resistance, R <sub>ms</sub>	0,37 kg / s
Efficiency, η <sub>0</sub>	2,8 %
Effective Surface Area, S <sub>d</sub>	0,022 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ****	6 mm
Displacement Volume, V <sub>d</sub>	132 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	0,25 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	212 mm	8,34 in
Bolt circle diameter	198 mm	7,79 in
Baffle cutout diameter:		
- Front mount	181 mm	7,12 in
- Rear mount	183 mm	7,20 in
Depth	108 mm	4,25 in
Volume displaced by driver	1,5 l	0,056 ft <sup>3</sup>
Net weight	2,8 kg	6,17 lb
Shipping weight	3 kg	6,61 lb

#### Notes:

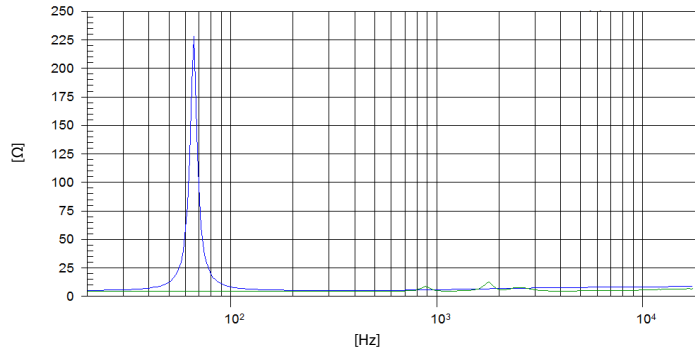
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

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

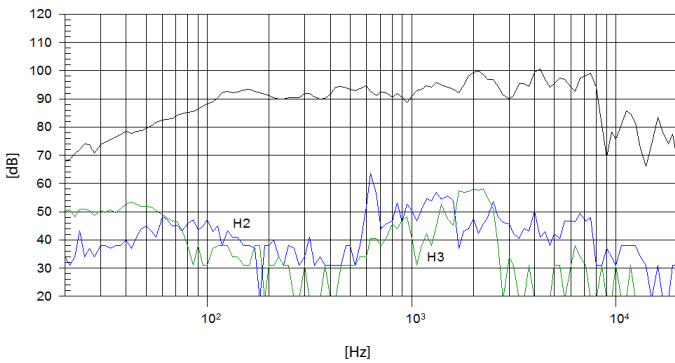
\*\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

### FREE AIR IMPEDANCE CURVE

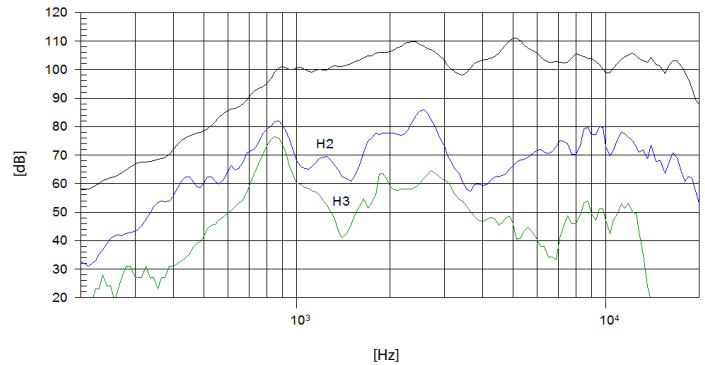


### FREQUENCY RESPONSE LF



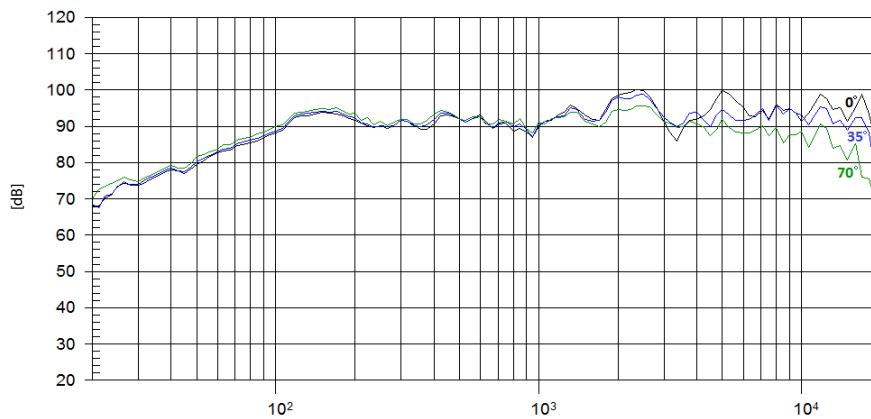
Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

### FREQUENCY RESPONSE HF



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

### FILTERED AND OFF-AXIS FREQUENCY RESPONSE



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