

## KEY FEATURES

- High performance 8" coaxial speaker
- 2,5" / 2,85" voice coil diameter design (LF / HF)
- High power handling 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

<b>Nominal diameter</b>	200 mm	8 in
<b>Rated impedance</b> (LF/HF)	8 / 8 $\Omega$	
<b>Minimum impedance</b> (LF/HF)	6,8 / 6,9 $\Omega$	
<b>Power capacity</b> <sup>1</sup> (LF/HF)	250 / 60 W <sub>AES</sub>	
<b>Program power</b> <sup>2</sup> (LF/HF)	500 / 120 W	
<b>Sensitivity</b> (LF/HF <sup>3</sup> )	97 dB	1W / 1m @ Z <sub>N</sub>
	103 dB	1W / 1m @ Z <sub>N</sub>
<b>Frequency range</b>	100 - 20.000 Hz	
<b>Recom. HF crossover</b>	1,5 kHz or higher (12 dB/oct min slope)	
<b>Voice coil diameter</b> (LF/HF)	63,5 mm	2,5 in
	72,4 mm	2,85 in
<b>BI factor</b>	13,5 N/A	
<b>Moving mass</b>	0,021 kg	
<b>Voice coil length</b>	15 mm	
<b>Air gap height</b>	7 mm	
<b>X<sub>damage</sub> (peak to peak)</b>	20 mm	

**Notes:**

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program power is defined as power capacity + 3 dB.

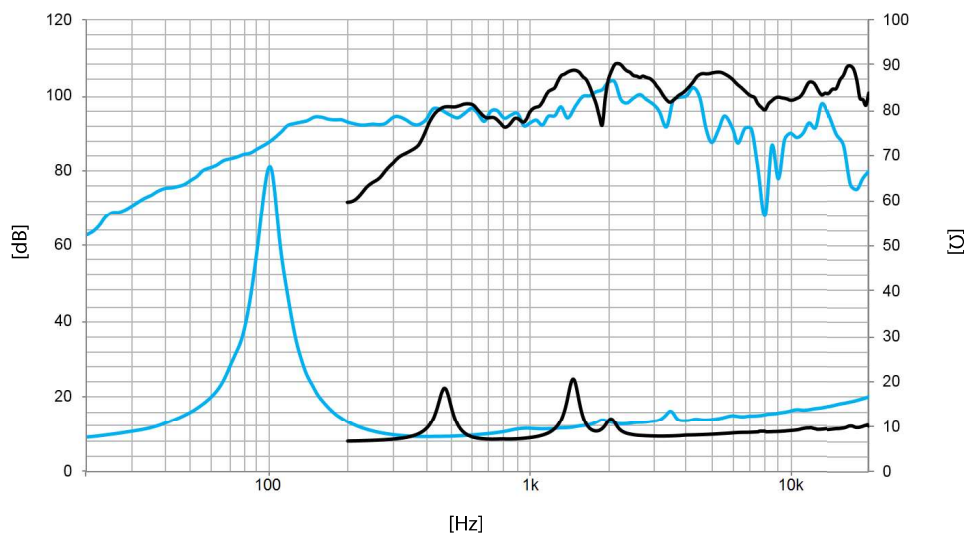
<sup>3</sup> Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

<sup>4</sup> 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).

<sup>5</sup> 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.

## THIELE-SMALL PARAMETERS<sup>4</sup>

<b>Resonant frequency, f<sub>s</sub></b>	100 Hz
<b>D.C. Voice coil resistance, R<sub>e</sub></b>	5,2 $\Omega$
<b>Mechanical Quality Factor, Q<sub>ms</sub></b>	4,8
<b>Electrical Quality Factor, Q<sub>es</sub></b>	0,37
<b>Total Quality Factor, Q<sub>ts</sub></b>	0,35
<b>Equivalent Air Volume to C<sub>ms</sub>, V<sub>as</sub></b>	8 l
<b>Mechanical Compliance, C<sub>ms</sub></b>	119 $\mu$ m / N
<b>Mechanical Resistance, R<sub>ms</sub></b>	2,7 kg / s
<b>Efficiency, <math>\eta_0</math></b>	2,2 %
<b>Effective Surface Area, S<sub>d</sub></b>	0,022 m <sup>2</sup>
<b>Maximum Displacement, X<sub>max</sub><sup>5</sup></b>	6 mm
<b>Displacement Volume, V<sub>d</sub></b>	132 cm <sup>3</sup>
<b>Voice Coil Inductance, L<sub>e</sub></b>	0,23 mH



**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

