

### KEY FEATURES

- High power handling: 150 / 40 W<sub>AES</sub> (LF / HF)
- High sensitivity: 92,5 / 102 dB (LF / HF)
- Low resonant frequency: 75 Hz
- Extended controlled displacement:  $X_{max} \pm 5,7$  mm
- Extended mechanical displacement capability:  $X_{damage} \pm 19$  mm
- Designed with MMSS technology for high control, symmetry and linearity
- Demodulating ring for low harmonic distortion
- CONEX spider for higher resistance and consistency
- Waterproof paper cone with Santoprene™ surround
- Common neodymium magnetic system for low weight and mounting depth
- Excellent off-axis response
- 70° conical dispersion

### TECHNICAL SPECIFICATIONS

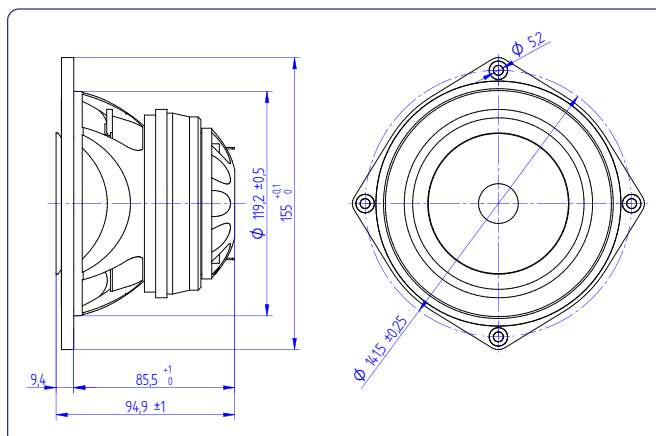
<b>Nominal diameter</b>	125 mm	5 in
<b>Rated impedance</b> (LF/HF)	8 / 8 $\Omega$	
<b>Minimum impedance</b> (LF/HF)	5,7 / 5,0 $\Omega$	
<b>Power capacity*</b> (LF/HF)	150 / 40 W <sub>AES</sub>	
<b>Program power</b> (LF/HF)	300 / 80 W	
<b>Sensitivity</b> (LF/HF**)	92,5 dB 1W @ Z <sub>N</sub>	
	102 dB 1W @ Z <sub>N</sub>	
<b>Frequency range</b>	75 - 20.000 Hz	
<b>Recom. HF crossover</b>	2,5 kHz or higher	
	(12 dB/oct min slope)	
<b>Voice coil diameter</b> (LF/HF)	38,1 mm	1,5 in
	44,45 mm	1,75 in
<b>BL factor</b>	7,32 N/A	
<b>Moving mass</b>	0,006 kg	
<b>Voice coil length</b>	14 mm	
<b>Air gap height</b>	6 mm	
<b>X<sub>damage</sub></b> (peak to peak)	19 mm	

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

<b>Resonant frequency, f<sub>s</sub></b>	75 Hz
<b>D.C. Voice coil resistance, R<sub>e</sub></b>	5,2 $\Omega$
<b>Mechanical Quality Factor, Q<sub>ms</sub></b>	10,04
<b>Electrical Quality Factor, Q<sub>es</sub></b>	0,28
<b>Total Quality Factor, Q<sub>ts</sub></b>	0,28
<b>Equivalent Air Volume to C<sub>ms</sub>, V<sub>as</sub></b>	9,07 l
<b>Mechanical Compliance, C<sub>ms</sub></b>	711 $\mu$ m / N
<b>Mechanical Resistance, R<sub>ms</sub></b>	0,29 kg / s
<b>Efficiency, <math>\eta_0</math></b>	1,3 %
<b>Effective Surface Area, S<sub>d</sub></b>	0,0095 m <sup>2</sup>
<b>Maximum Displacement, X<sub>max</sub> ****</b>	5,7 mm
<b>Displacement Volume, V<sub>d</sub></b>	48,1 cm <sup>3</sup>
<b>Voice Coil Inductance, L<sub>e</sub></b>	0,22 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

<b>Overall diameter</b>	155 mm	6,1 in
<b>Bolt circle diameter</b>	141,5 mm	5,57 in
<b>Baffle cutout diameter:</b>		
- Front mount	119,2 mm	4,69 in
- Rear mount	127 mm	5 in
<b>Depth</b>	94,9 mm	3,74 in
<b>Volume displaced by driver</b>	0,5 l	0,02 ft <sup>3</sup>
<b>Net weight</b>	1,60 kg	3,53 lb
<b>Shipping weight</b>	1,67 kg	3,68 lb

#### Notes:

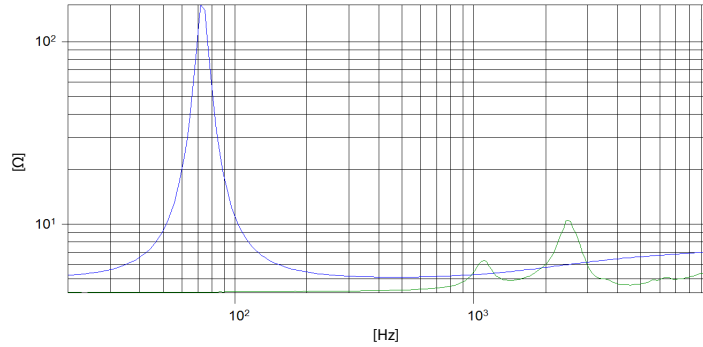
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

\*\* Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 2 - 7 kHz.

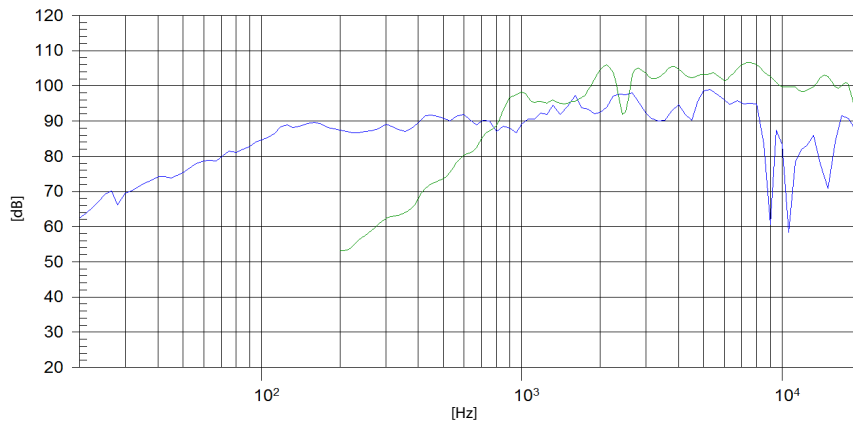
\*\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*\* 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

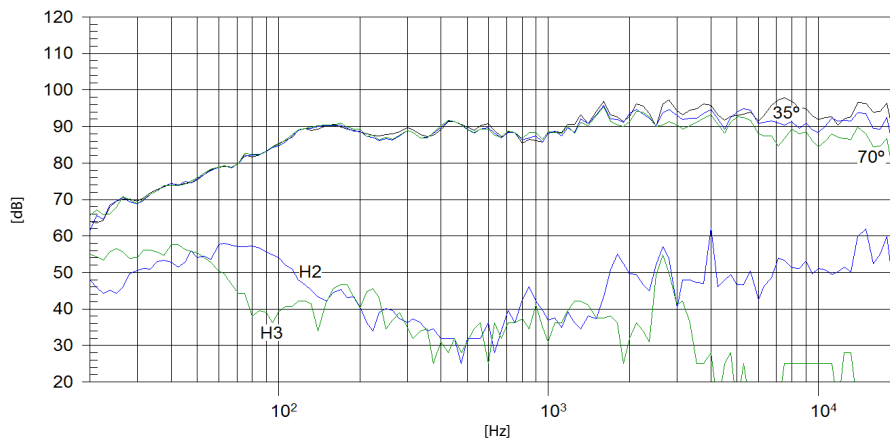


### FREQUENCY RESPONSE



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