

### KEY FEATURES

- High power handling: 150 / 40 W<sub>AES</sub> (LF / HF)
- High sensitivity: 92,5/ 102 dB (LF / HF)
- Low resonant frequency: 69 Hz
- Extended controlled displacement: X<sub>Max</sub> ± 5,7 mm
- Extended mechanical displacement capability: X<sub>Damage</sub> ± 21 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
- Excellent off-axis response
- 70° conical dispersion

### TECHNICAL SPECIFICATIONS

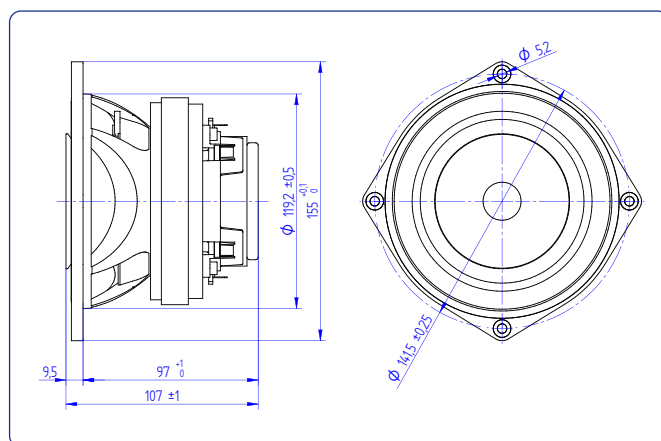
Nominal diameter	125 mm	5 in
Rated impedance (LF/HF)		8 / 8 Ω
Minimum impedance (LF/HF)		5,2 / 5,9 Ω
Power capacity* (LF/HF)		150 / 40 W <sub>AES</sub>
Program power (LF/HF)		300 / 80 W
Sensitivity (LF/HF**)	92,5 dB	1W @ Z <sub>N</sub>
	102 dB	1W @ Z <sub>N</sub>
Frequency range		69 - 20.000 Hz
Recom. HF crossover		3,5 kHz or higher (12 dB/oct min slope)
Voice coil diameter (LF/HF)	38,1 mm	1,5 in
	44,45 mm	1,75 in
BL factor		7,18 N/A
Moving mass		0,007 kg
Voice coil length		14 mm
Air gap height		6 mm
X <sub>damage</sub> (peak to peak)		21 mm

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

Resonant frequency, f <sub>s</sub>	69 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,1 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	10,07
Electrical Quality Factor, Q <sub>es</sub>	0,32
Total Quality Factor, Q <sub>ts</sub>	0,31
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	8,9 l
Mechanical Compliance, C <sub>ms</sub>	697 μm / N
Mechanical Resistance, R <sub>ms</sub>	0,32 kg / s
Efficiency, η <sub>0</sub>	0,86 %
Effective Surface Area, S <sub>d</sub>	0,0095 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ****	5,7 mm
Displacement Volume, V <sub>d</sub>	48,1 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	0,22 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	155 mm	6,10 in
Bolt circle diameter	141,5 mm	5,57 in
Baffle cutout diameter:		
- Front mount	119,2 mm	4,69 in
- Rear mount	127 mm	5,0 in
Depth	107 mm	4,21 in
Volume displaced by driver	0,5 l	0,02 ft <sup>3</sup>
Net weight	2,51 kg	5,54 lb
Shipping weight	2,59 kg	5,73 lb

#### Notes:

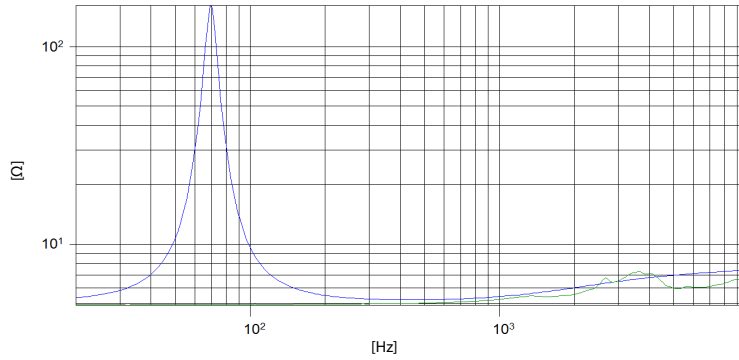
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

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

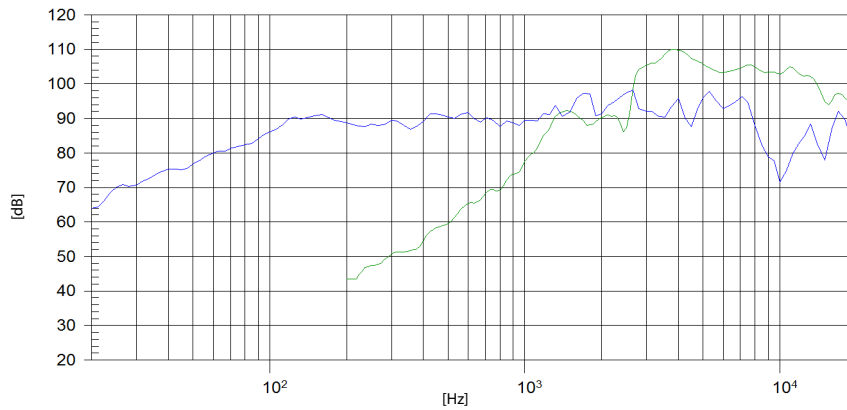
\*\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*\* 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

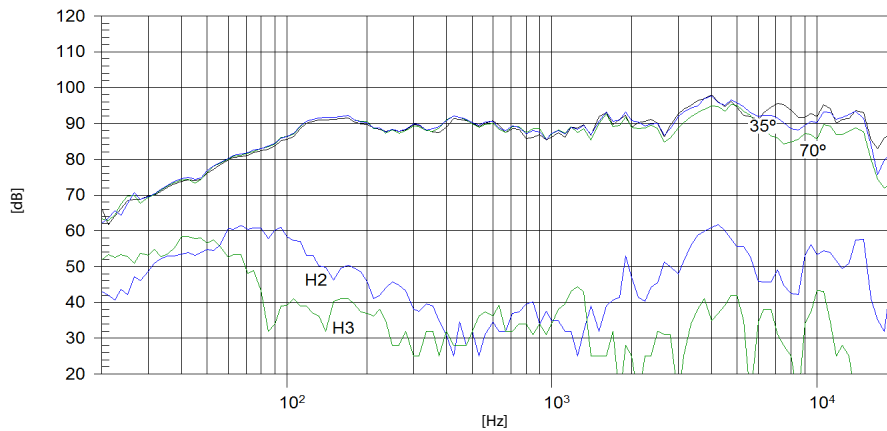


### FREQUENCY RESPONSE



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/Fe