

### KEY FEATURES

- Power handling: 1.000 W<sub>AES</sub>
- Sensitivity: 98 dB (1W / 1m)
- 4" duo technology voice coil
- Forced air convection circuit for low power compression
- Extended controlled displacement: X<sub>max</sub> ± 8 mm
- Massive mechanical displacement capability: X<sub>damage</sub> ± 52 mm

### TECHNICAL SPECIFICATIONS

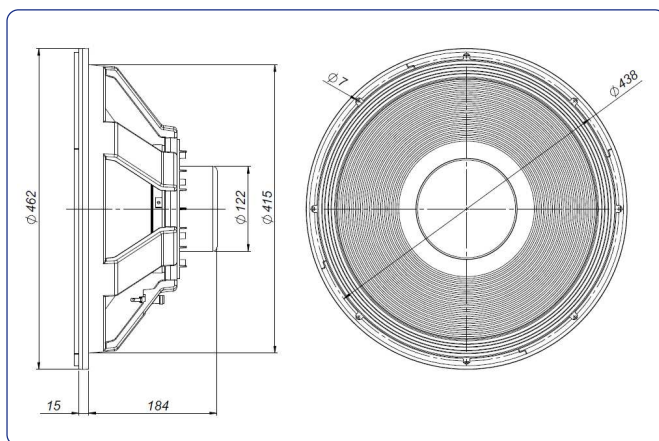
Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		6,7 Ω
Power capacity*	1.000 W <sub>AES</sub>	
Program power		2.000 W
Sensitivity	98 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		40 - 2.000 Hz
Recom. enclosure vol.	80 / 200 l	2,8 / 7 ft <sup>3</sup>
Voice coil diameter	101,6 mm	4 in
BI factor		25,2 N/A
Moving mass		0,220 kg
Voice coil length		21 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		52 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, f <sub>s</sub>	39 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,2 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	7
Electrical Quality Factor, Q <sub>es</sub>	0,44
Total Quality Factor, Q <sub>ts</sub>	0,42
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	170 l
Mechanical Compliance, C <sub>ms</sub>	77 μm / N
Mechanical Resistance, R <sub>ms</sub>	7,6 kg / s
Efficiency, η <sub>0</sub>	2,1 %
Effective Surface Area, S <sub>d</sub>	0,1250 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> ***	8 mm
Displacement Volume, V <sub>d</sub>	1000 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	1,5 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	462 mm	18,19 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,34 in
Depth	199 mm	7,83 in
Net weight	7 kg	15,4 lb
Shipping weight	8,5 kg	18,7 lb

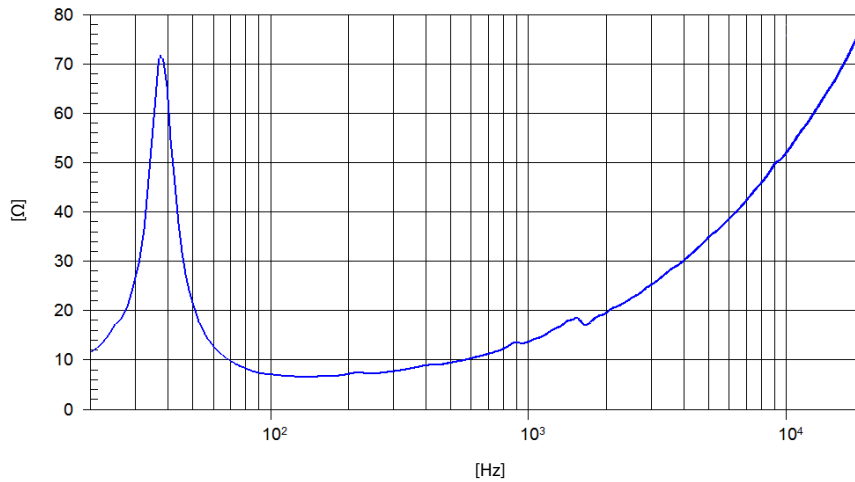
#### Notes:

\* 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.

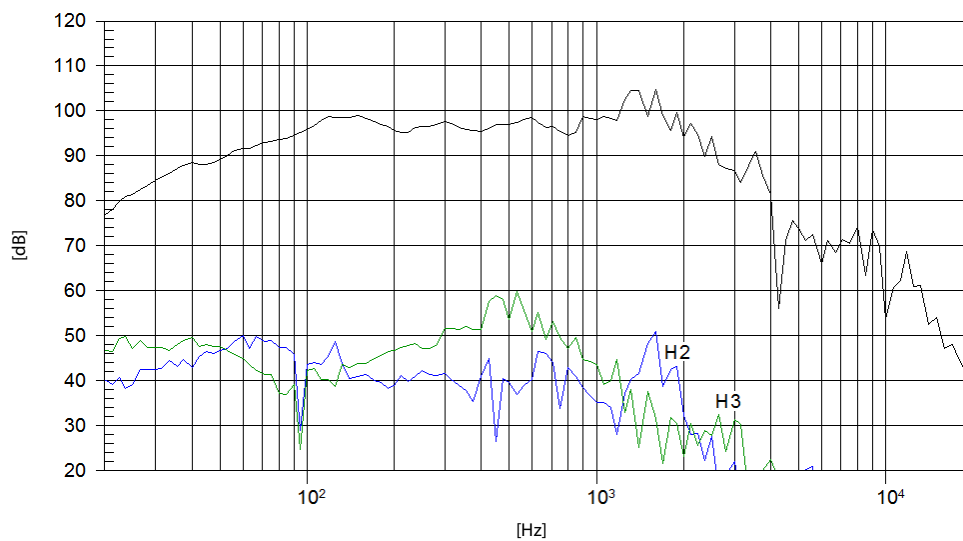
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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 AND DISTORTION



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