

### KEY FEATURES

- 700 W<sub>AES</sub> power handling capacity
- High sensitivity: 100 dB
- Wide usable frequency range and low harmonic distortion
- Low resonant frequency: 51 Hz
- Extended controlled displacement:  $X_{max} \pm 7,5$  mm
- Extended mechanical displacement capability:  
 $X_{dam} \pm 52$  mm
- Low power compression losses
- CONEX spider
- Designed with *MMSS technology*

### TECHNICAL SPECIFICATIONS

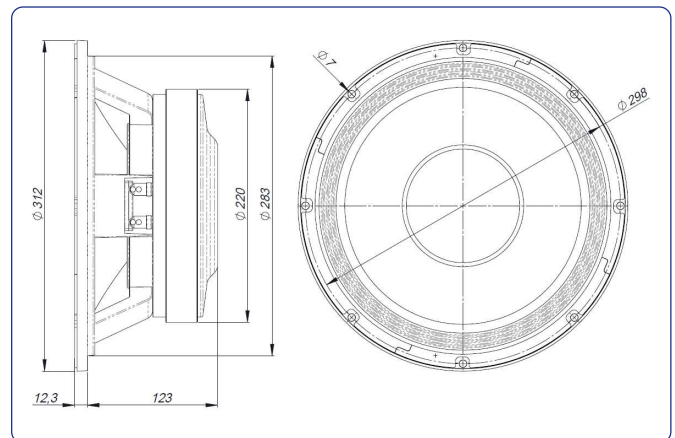
Nominal diameter	300 mm	12 in
Rated impedance		8 $\Omega$
Minimum impedance		7 $\Omega$
Power capacity*		700 W <sub>AES</sub>
Program power		1.400 W
Sensitivity	100 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		50 - 4.000 Hz
Recom. enclosure vol.	20 / 60 l	0,7 / 2,24 ft <sup>3</sup>
Voice coil diameter	101,6 mm	4 in
BI factor		22,5 N/A
Moving mass		0,065 kg
Voice coil length		20 mm
Air gap height		12 mm
X <sub>damage</sub> (peak to peak)		52 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	50 Hz
D.C. Voice coil resistance, $R_e$	5,1 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	4,9
Electrical Quality Factor, $Q_{es}$	0,21
Total Quality Factor, $Q_{ts}$	0,20
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	66,8 l
Mechanical Compliance, $C_{ms}$	156 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	4,2 kg / s
Efficiency, $\eta_0$	4 %
Effective Surface Area, $S_d$	0,055 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	7,5 mm
Displacement Volume, $V_d$	412,5 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	1,1 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	312 mm	12,28 in
Bolt circle diameter	298 mm	11,73 in
Baffle cutout diameter:		
- Front mount	283 mm	11,12 in
Depth	133 mm	5,24 in
Net weight	11,5 kg	25,35 lb
Shipping weight	12,2 kg	26,90 lb

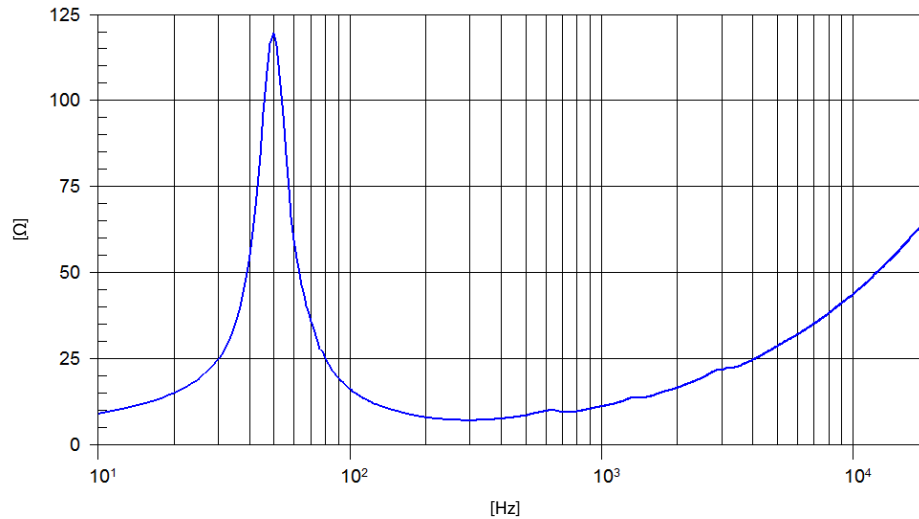
#### Notes:

\* 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.

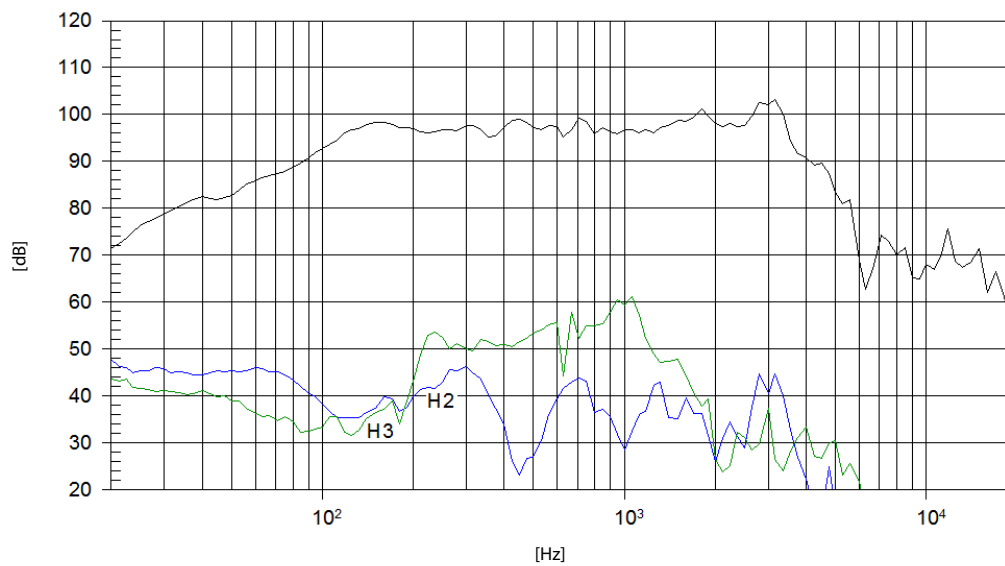
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* The  $X_{max}$  is calculated as  $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$ , where  $L_{vc}$  is the voice coil length and  $H_{ag}$  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