

KEY FEATURES

- 700 W_{AES} power handling capacity
- High sensitivity: 101 dB
- Wide usable frequency range and low harmonic distortion
- Extended controlled displacement: $X_{\max} \pm 7,5$ mm
- Extended mechanical displacement capability: $X_{\text{damage}} \pm 52$ mm
- Low power compression losses
- Designed with *MMSS technology*

TECHNICAL SPECIFICATIONS

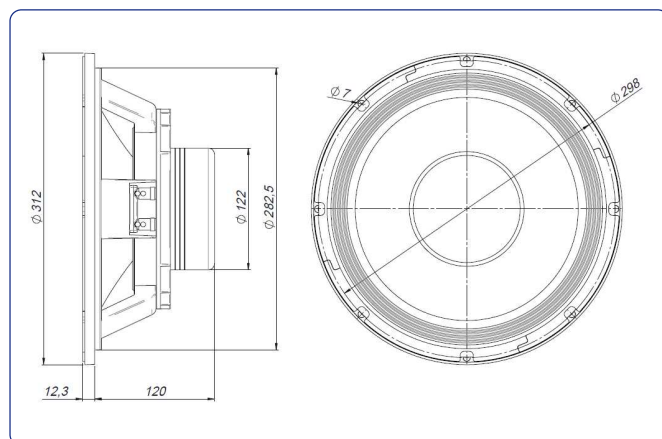
| | | |
|------------------------------------|----------------------|--------------------------|
| Nominal diameter | 300 mm | 12 in |
| Rated impedance | | 8 Ω |
| Minimum impedance | | 5,6 Ω |
| Power capacity* | 700 W _{AES} | |
| Program power | 1.400 W | |
| Sensitivity | 101 dB | 1W / 1m @ Z _N |
| Frequency range | 50 - 4.000 Hz | |
| Voice coil diameter | 101,6 mm | 4 in |
| BI factor | | 25,3 N/A |
| Moving mass | | 0,067 kg |
| Voice coil length | | 20 mm |
| Air gap height | | 12 mm |
| X _{damage} (peak to peak) | | 52 mm |

THIELE-SMALL PARAMETERS**

| | |
|--|------------------------------|
| Resonant frequency, f_s | 50 Hz |
| D.C. Voice coil resistance, R_e | 5,1 Ω |
| Mechanical Quality Factor, Q_{ms} | 4,25 |
| Electrical Quality Factor, Q_{es} | 0,17 |
| Total Quality Factor, Q_{ts} | 0,16 |
| Equivalent Air Volume to C_{ms} , V_{as} | 65 l |
| Mechanical Compliance, C_{ms} | 150 $\mu\text{m} / \text{N}$ |
| Mechanical Resistance, R_{ms} | 5 kg / s |
| Efficiency, η_0 | 4,65 % |
| Effective Surface Area, S_d | 0,055 m ² |
| Maximum Displacement, X_{\max} *** | 7,5 mm |
| Displacement Volume, V_d | 413 cm ³ |
| Voice Coil Inductance, L_e @ 1 kHz | 0,75 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 | 130 mm | 5,12 in |
| Net weight | 5,6 kg | 12,32 lb |
| Shipping weight | 6,3 kg | 13,86 lb |

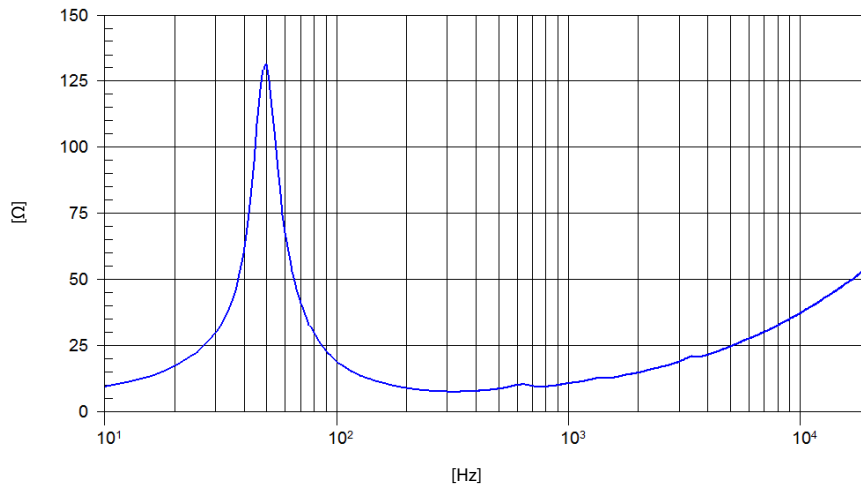
Notes:

* 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.

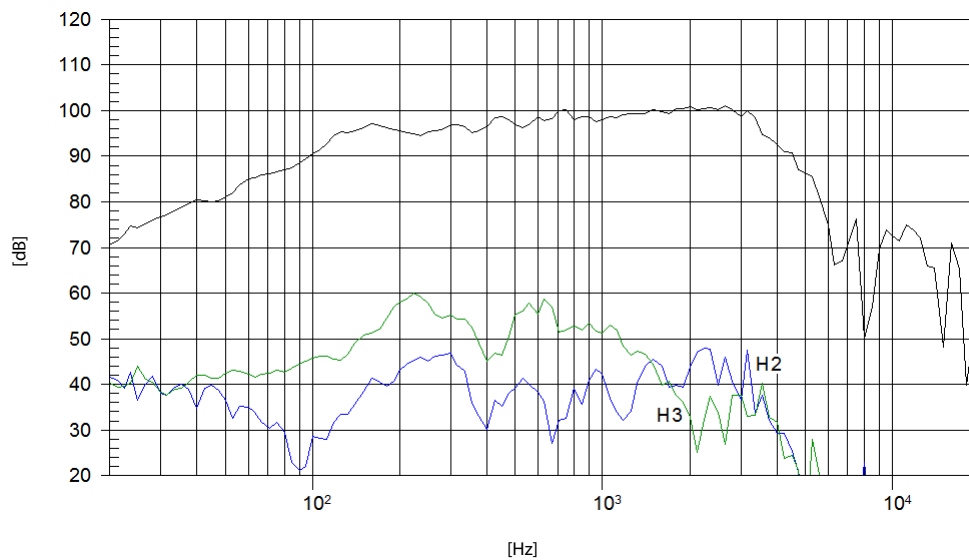
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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