

KEY FEATURES

- 700 W AES power handling capacity
- High sensitivity: 101dB 2.83v @ 1m @ 2ø
- Excellent efficiency
- Wide usable frequency range and low harmonic distortion
- Low Resonant frequency: 45 Hz
- Extended controlled displacement: $X_{max} \pm 7.5$ mm
- Extended mechanical displacement capability: X_{pp} 52 mm
- Forced air convection circuit for low power compression losses
- CONEX spider
- Designed with *MMSS technology*

TECHNICAL SPECIFICATIONS

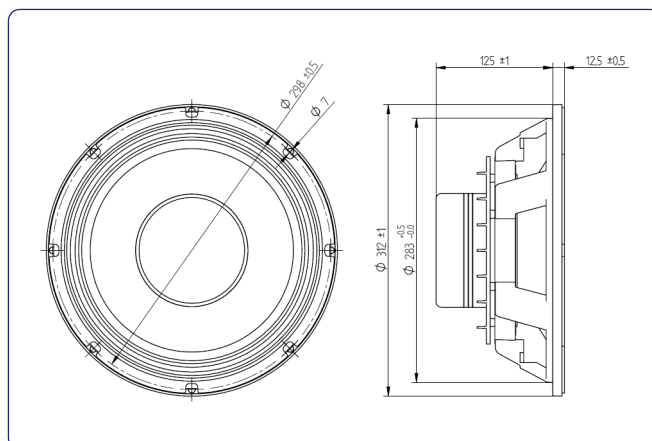
Nominal diameter	300 mm. 12 in.
Rated impedance	8 ohms
Minimum impedance	6.4 ohms
Power capacity*	700 w AES
Program power	1400 w
Sensitivity	101 dB 2.83v @ 1m @ 2ø
Frequency range	25 - 4000 Hz
Recom. enclosure vol.	20/ 60 l 0.7 / 2.24 ft. ³
Voice coil diameter	100 mm. 4 in.
Magnetic assembly weight	4.62 kg. 10.16 lb.
BL factor	23.1 N / A
Moving mass	0.056 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	45 Hz
D.C. Voice coil resistance, R_e	5.2 ohms
Mechanical Quality Factor, Q_{ms}	6.6
Electrical Quality Factor, Q_{es}	0.15
Total Quality Factor, Q_{ts}	0.15
Equivalent Air Volume to C_{ms} , V_{as}	95.7 l
Mechanical Compliance, C_{ms}	227 μ m / N
Mechanical Resistance, R_{ms}	2.39 kg / s
Efficiency, η_o (%)	5.4
Effective Surface Area, S_d (m ²)	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	1.2 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	282.5 mm. 11.12 in.
- Rear mount	280 mm. 11.02 in.
Depth	130 mm. 5.12 in.
Volume displaced by driver	4 l. 0.14 ft. ³
Net weight	5.6 kg. 12.32 lb.
Shipping weight	6.3 kg. 13.86 lb.

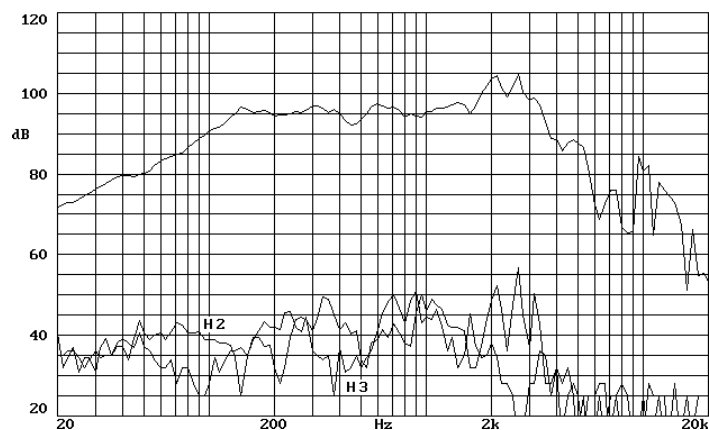
Notes:

*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 $(L_{vc} - Hag)/2 + Hag/3.5$, where L_{vc} is the voice coil length and Hag is the air gap height.

FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

FREE AIR IMPEDANCE CURVE

