

KEY FEATURES

- High power handling: 700 W_{AES}
- High sensitivity: 96 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- CONEX spider for higher resistance and consistency
- Waterproof treatment for both sides of the cone
- 4" DUO double layer inner/outer voice coil
- Extended controlled displacement: X_{MAX} ± 9 mm
- Massive mechanical displacement capability: X_{damage} ± 47 mm

TECHNICAL SPECIFICATIONS

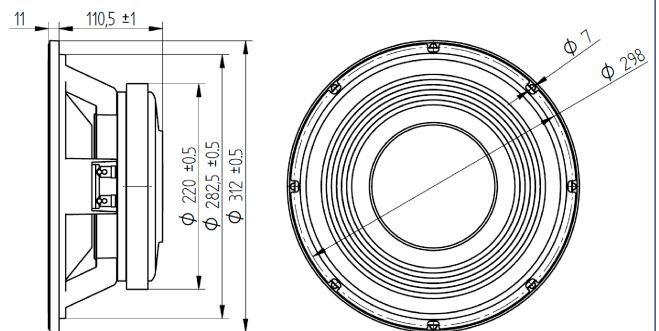
Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity*		700 W _{AES}
Program power		1.400 W
Sensitivity	96 dB @ 1W @ Z _N	
Frequency range		35 - 2.000 Hz
Recom. enclosure vol.	12 / 60 l	0,7 / 2,24 ft ³
Voice coil diameter	101,6 mm	4 in
Magnetic assembly weight	9 kg	19,84 lb
BI factor		20 N/A
Moving mass		0,102 kg
Voice coil length		20 mm
Air gap height		10 mm
X _{damage} (peak to peak)		58 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	49 Hz
D.C. Voice coil resistance, R _e	5,1 Ω
Mechanical Quality Factor, Q _{ms}	15,3
Electrical Quality Factor, Q _{es}	0,40
Total Quality Factor, Q _{ts}	0,38
Equivalent Air Volume to C _{ms} , V _{as}	43 l
Mechanical Compliance, C _{ms}	99 μm / N
Mechanical Resistance, R _{ms}	2,1 kg / s
Efficiency, η ₀	1,21 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ***	9 mm
Displacement Volume, V _d	500 cm ³
Voice Coil Inductance, L _e @ Z _{min}	2,1 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	11,14 in
- Rear mount	280 mm	11,02 in
Depth	123 mm	4,94 in
Volume displaced by driver	5,5 l	0,14 ft ³
Net weight	9,7 kg	21,39 lb
Shipping weight	10,4 kg	22,92 lb

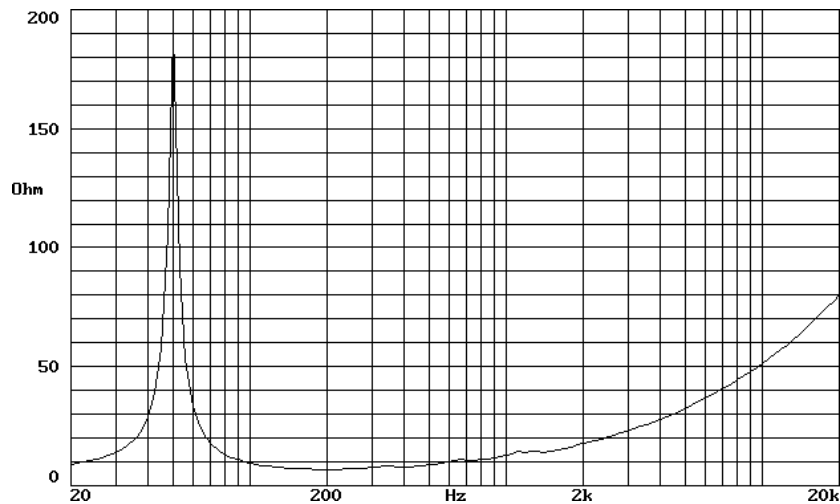
Notes:

* 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.

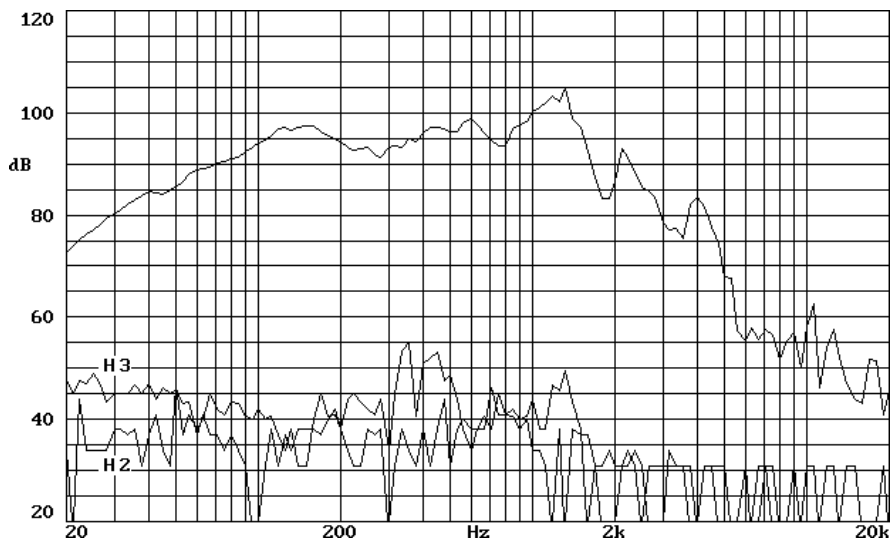
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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