

KEY FEATURES

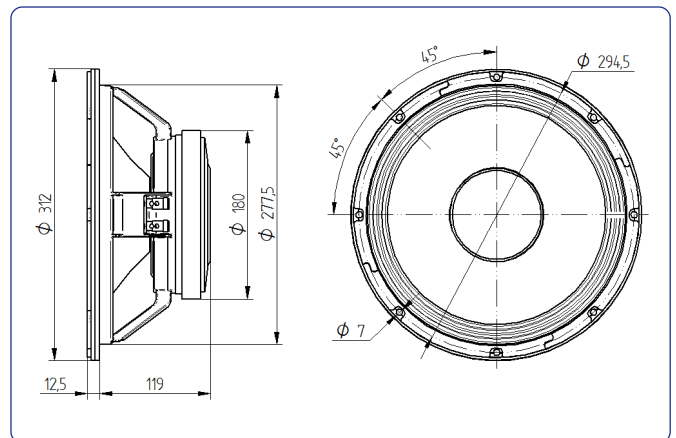
- High power handling (400 W_{AES}).
- 3" (77 mm) copper voice coil with apical former.
- Optimum winding length for increase linear excursion.
- Extended response in the medium frequency range.
- Designed for high power woofer applications.



TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity*	400 W _{AES}	
Program power		800 W
Sensitivity	97 dB	1W @ 1m @ Z _N
Frequency range		40 - 4.000 Hz
Recom. enclosure vol.	30 / 100 l	1,06 / 3,53 ft ³
Voice coil diameter	77 mm	3 in
Bl factor		17 N/A
Moving mass		0,058 kg
Voice coil length		17,5 mm
Air gap height		7 mm
X _{damage} (peak to peak)		30 mm

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	40 Hz
D.C. Voice coil resistance, R _e	6,2 Ω
Mechanical Quality Factor, Q _{ms}	8
Electrical Quality Factor, Q _{es}	0,31
Total Quality Factor, Q _{ts}	0,30
Equivalent Air Volume to C _{ms} , V _{as}	117,3 l
Mechanical Compliance, C _{ms}	273 μm / N
Mechanical Resistance, R _{ms}	1,8 kg / s
Efficiency, η ₀	2,1 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ***	7,25 mm
Displacement Volume, V _d	398 cm ³
Voice Coil Inductance, L _e @ 1 kHz	1,2 mH

MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	294,5 mm	11,6 in
Baffle cutout diameter:		
- Front mount	277,5 mm	10,9 in
Depth	131,5 mm	5,17 in
Volume displaced by driver	4,5 l	0,16 ft ³
Net weight	5,65 kg	12,45 lb
Shipping weight	6 kg	13,23 lb

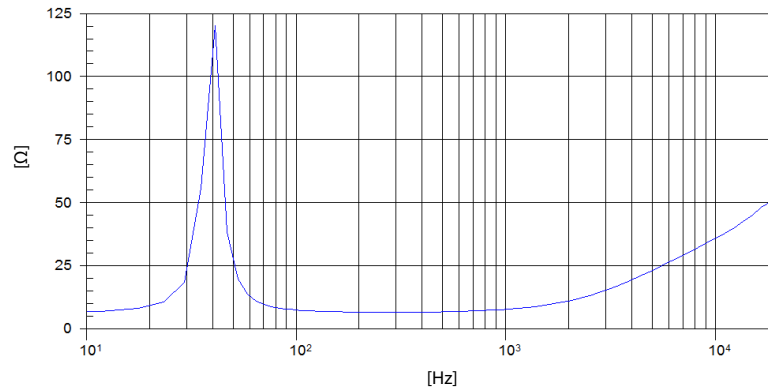
Notes:

* 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.

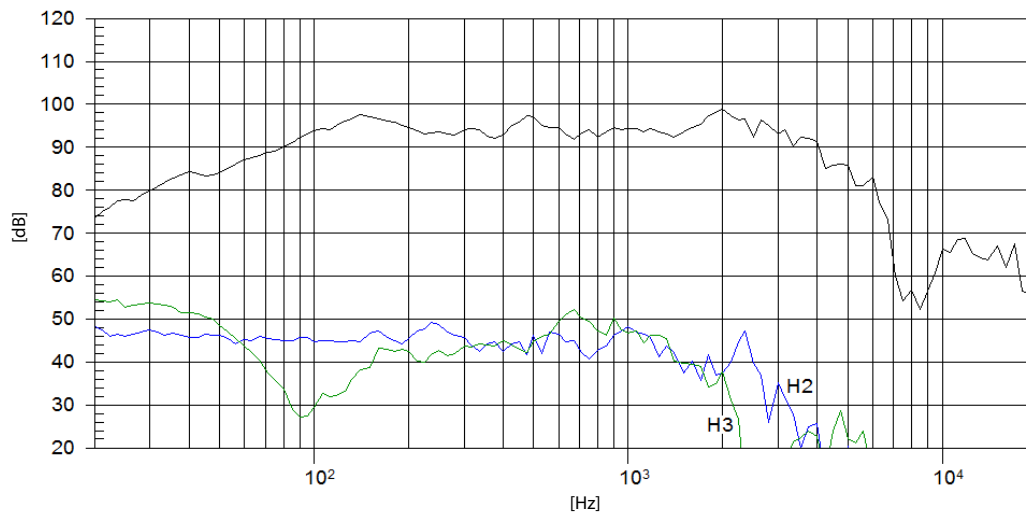
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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