

TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance (LF/HF)	8 / 16 Ω	
Minimum impedance (LF/HF)	9,6 / 12,1 Ω	
Power capacity* (LF/HF)	400 / 90 W _{AES}	
Program power (LF/HF)	800 / 180 W	
Sensitivity (LF/HF**)	96 / 105 dB @ 1W @ Z _N	
Frequency range	35 - 20.000 Hz	
Recommended crossover	1,5 kHz or higher	
	(12 dB/oct min slope)	
Voice coil diameter (LF/HF)	101,6 mm	4 in
	72,39 mm	2,85 in
Air gap height	10 mm	
Voice coil length	16 mm	
BI factor	15,8 N/A	
Moving mass	0,060 kg	

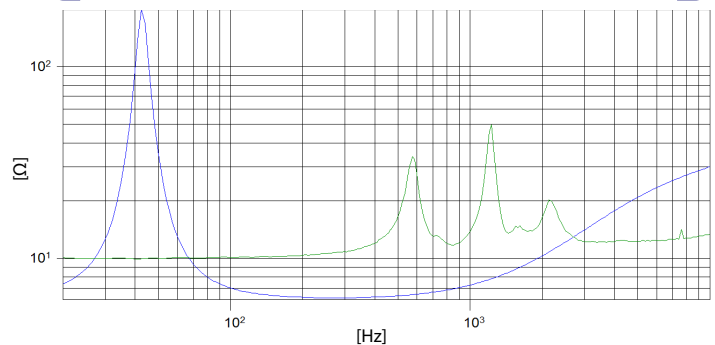
THIELE-SMALL PARAMETERS***

Resonant frequency, f_s	31 Hz
D.C. Voice coil resistance, R_e	6,1 Ω
Mechanical Quality Factor, Q_{ms}	15,02
Electrical Quality Factor, Q_{es}	0,39
Total Quality Factor, Q_{ts}	0,38
Equivalent Air Volume to C_{ms} , V_{as}	94,1 l
Mechanical Compliance, C_{ms}	220 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	1,10 kg / s
Efficiency, η_0	1,90 %
Effective Surface Area, S_d	0,055 m^2
Maximum Displacement, X_{max} ****	5,8 mm
Voice Coil Inductance, L_e	0,86 mH

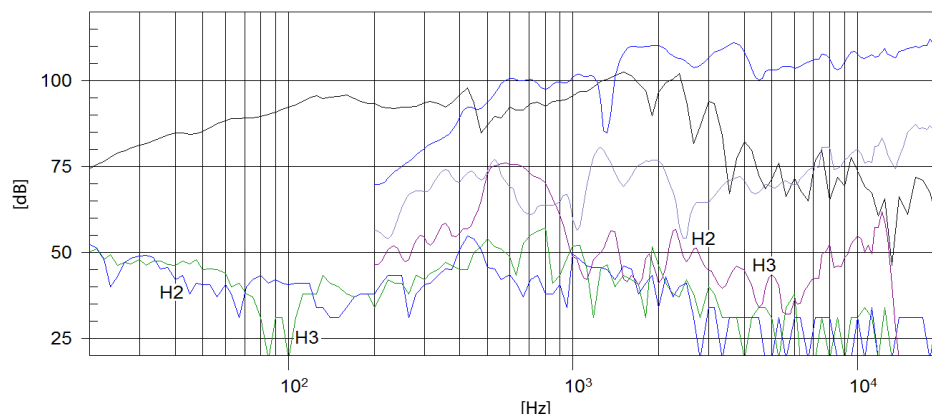
MOUNTING INFORMATION

Overall diameter	311,7 mm	12,27 in
Bolt circle diameter	298 mm	11,73 in
Baffle cutout diameter	282,6 mm	11,13 in
Depth	165 mm	6,5 in
Net weight	11,3 kg	25,11 lb

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.

Notes:

This datasheet is done with the measurements of a laboratory prototype. Small differences may appear once the driver is transferred to the production line and manufactured in big quantities. Please refer to the serial datasheet for the definitive information of the average production.

* 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.

** Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

*** 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.