TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance (LF/HF)	8 / 16	Ω
Minimum impedance (LF/HF)	8.0 / 12.2	Ω
Power capacity * (LF/HF)	TBD	W_{AES}
Program power (LF/HF)	TBD	W
Sensitivity (LF/HF**)	94 / 105 dB	1W / 1m @ Z_n
Frequency range	250-20.000	Hz
Recommended crossover	1.2 kHz or higher (12 dB/oct min slope)	
Voice coil diameter (LF/HF)	101.6 mm	4 in
	76.20 mm	3 in
Air gap height	10	mm
Voice coil length	11.5	mm
Bl factor	29.4	N/A
Moving mass	0.101	kg

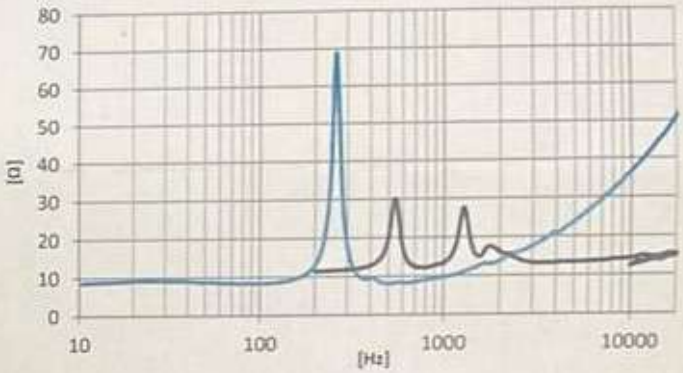
MOUNTING INFORMATION

Overall diameter	260 mm	10.2 in
Bolt circle diameter	243 mm	9.6 in
Baffle cutout diameter	228 mm	9.0 in
Depth	15 mm	0.6 in
Net weight	7 kg	15.4 lb

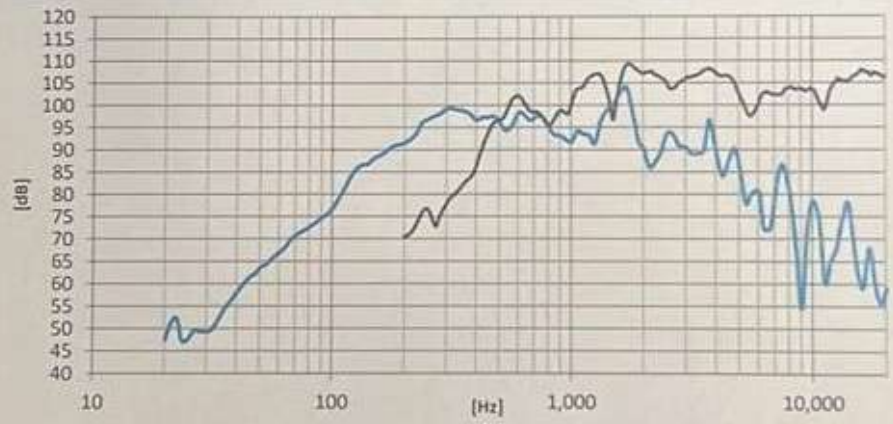
THIELE-SMALL PARAMETERS***

Resonant frequency, f_s	271 Hz
D.C. Voice coil resistance, R_e	5.8 Ω
Mechanical Quality Factor, Q_{ms}	10.0
Electrical Quality Factor, Q_{es}	1.16
Total Quality Factor, Q_{ts}	1.04
Equivalent Air Volume to Cms, V_{as}	0.7 l
Mechanical Compliance, C_{ms}	3 µm/N
Mechanical Resistance, R_{ms}	17.2 kg/s
Efficiency, η_0	1.15 %
Effective Surface Area, S_D	0.038 m^2
Maximum Displacement, X_{max} ****	3.6 mm
Voice Coil Inductance, L_e	0.56 mH

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.

* Power capacity (AES2-1984 (r2003)) has been estimated in this particular case for the present sample. 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 3 - 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 Xmax is calculated as (Lvc - Hag)/2 + (Hag/3.5), where Lvc is the voice coil length and Hag is the air gap height.

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