

TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance	4 Ω	
Minimum impedance	3,9 Ω	
Power capacity *	200 W _{AES}	
Program power	400 W	
Sensitivity	92 dB	1W @ 1m @ Z _n
Frequency range	60 - 6.000 Hz	
Voice coil diameter	50,8 mm	2 in
Air gap height	7 mm	
Voice coil length	14 mm	
Bl factor	9,3 N/A	
Moving mass	0,019 kg	
Winding material	Aluminum	
Spider material	Conex	
Magnet material	Neodymium	
Cone material	Paper	
Frame material	Die cast aluminum	

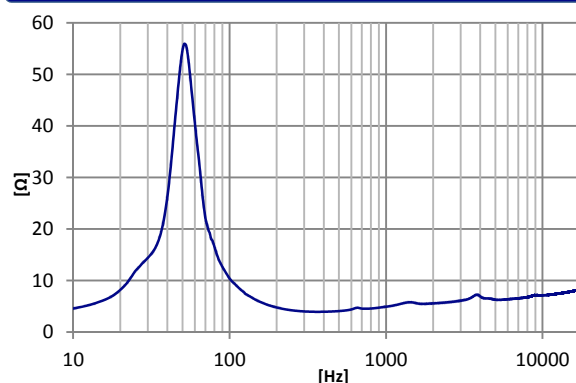
MOUNTING INFORMATION

Overall diameter	162,5 mm	6,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter	146 mm	5,7 in
Depth	78 mm	3,1 in
Net weight	1,9 kg	4,2 lb

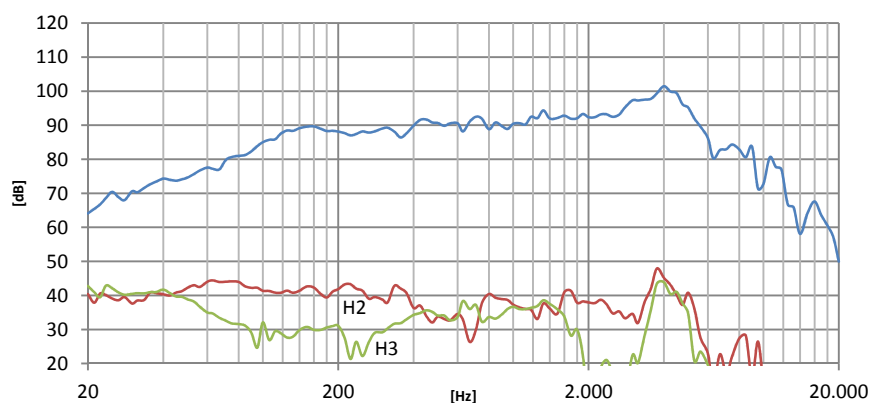
THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	56 Hz
D.C. Voice coil resistance, R_e	3 Ω
Mechanical Quality Factor, Q_{ms}	5,1
Electrical Quality Factor, Q_{es}	0,23
Total Quality Factor, Q_{ts}	0,22
Equivalent Air Volume to Cms, V_{as}	11,1 l
Mechanical Compliance, C_{ms}	430 μm/N
Mechanical Resistance, R_{ms}	1,3 kg/s
Efficiency, η_0	0,8 %
Effective Surface Area, S_D	0,014 m ²
Maximum Displacement, X_{max}^{***}	5,5 mm
Voice Coil Inductance, L_e	0,2 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.

** 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.