

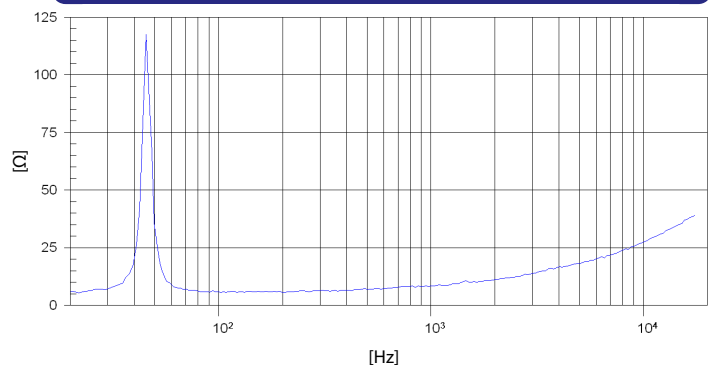
TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		6,2 Ω
Power capacity*	250 W _{AES}	
Program power	500 W	
Sensitivity	94 dB @ 1W @ Z _N	
Frequency range	50 - 6.500 Hz	
Voice coil diameter	62,4 mm	2,5 in
Air gap height		7 mm
Voice coil length		17 mm
BI factor		12,3 N/A
Moving mass		0,059 kg
Winding material	Aluminium alloy	
Spider material	Polycotton	
Magnet material	Ferrite	
Cone material	Shinny treatment	
Frame material	Steel	

THIELE-SMALL PARAMETERS**

Resonant frequency, f _s	48 Hz
D.C. Voice coil resistance, R _e	5,8 Ω
Mechanical Quality Factor, Q _{ms}	14,52
Electrical Quality Factor, Q _{es}	0,68
Total Quality Factor, Q _{ts}	0,65
Equivalent Air Volume to C _{ms} , V _{as}	78,2 l
Mechanical Compliance, C _{ms}	182 μm / N
Mechanical Resistance, R _{ms}	1,28 kg / s
Efficiency, η ₀	1,26 %
Effective Surface Area, S _d	0,055 m ²
Maximum Displacement, X _{max} ***	7 mm
Voice Coil Inductance, L _e	0,9 mH

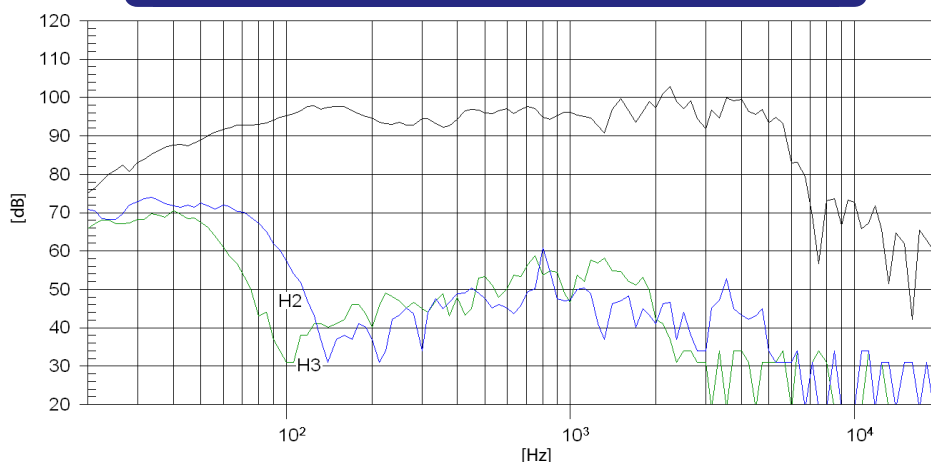
FREE AIR IMPEDANCE CURVE



MOUNTING INFORMATION

Overall diameter	310 mm	12,2 in
Bolt circle diameter	298 mm	11,7 in
Baffle cutout diameter	280 mm	11,2 in
Depth	132 mm	5,2 in
Net weight	4,31 kg	9,48 lb

FREQUENCY RESPONSE AND DISTORTION



Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 2,83V @ 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.

** 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.