

## TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance	4 Ω	
Minimum impedance	4,5 Ω	
Power capacity <sup>1</sup>	250 W <sub>AES</sub>	
Program power <sup>2</sup>	500 W	
Sensitivity	94 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		80 - 8.000 Hz
Voice coil diameter	38,1 mm	1,5 in
BL factor		7,7 N/A
Moving mass		0,019 kg
Voice coil length		14 mm
Air gap height		6 mm
X <sub>damage</sub> (peak to peak)		29 mm



## THIELE-SMALL PARAMETERS<sup>3</sup>

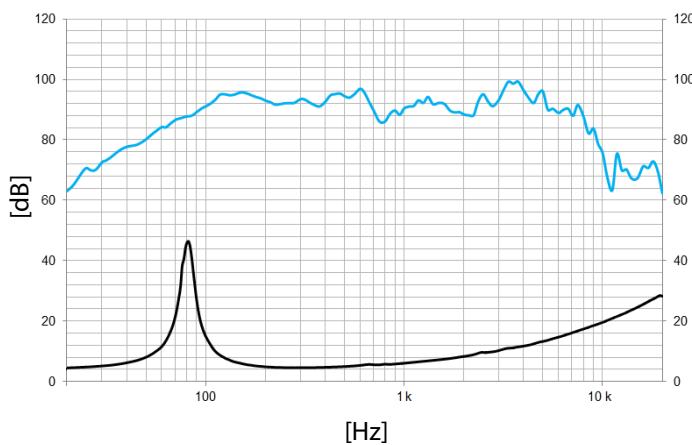
Resonant frequency, f <sub>r</sub>	83 Hz
D.C. Voice coil resistance, R <sub>e</sub>	3,4 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	8,8
Electrical Quality Factor, Q <sub>es</sub>	0,56
Total Quality Factor, Q <sub>ts</sub>	0,53
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	13,4 l
Mechanical Compliance, C <sub>ms</sub>	195 μm / N
Mechanical Resistance, R <sub>ms</sub>	1,1 kg / s
Efficiency, η <sub>0</sub>	1,3 %
Effective Surface Area, S <sub>d</sub>	0,022 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	5,7 mm
Displacement Volume, V <sub>d</sub>	125 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	0,5 mH

## MATERIALS

Voice coil winding	Aluminum
Voice coil former	Glass fiber
Spider	Polycotton
Magnet	Ferrite
Cone	Paper
Frame	Steel

## MOUNTING INFORMATION

Overall diameter	210 mm	8,3 in
Bolt circle diameter	196 mm	7,7 in
<b>Baffle cutout diameter:</b>		
- Front mount	180 mm	7,1 in
Depth	92 mm	3,6 in
Net weight	2,4 kg	5,3 lb
Shipping weight	2,6 kg	5,7 lb



Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

### Notes:

This datasheet is done with the measurement of a laboratory prototype. Small differences may appear when the driver is transferred to the production line and manufactured in big quantities.

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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).

<sup>4</sup> The X<sub>max</sub> is calculated as (L<sub>vc</sub> · H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.