

### TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 $\Omega$
Minimum impedance		7,9 $\Omega$
Power capacity <sup>1</sup>		170 W <sub>AES</sub>
Program power <sup>2</sup>		340 W
Sensitivity	94 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		90 - 8.000 Hz
Voice coil diameter	50,8 mm	2 in
BI factor		11,2 N/A
Moving mass		0,014 kg
Voice coil length		9 mm
Air gap height		7 mm
X <sub>damage</sub> (peak to peak)		20 mm

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

Resonant frequency, f <sub>s</sub>	85 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	3,7
Electrical Quality Factor, Q <sub>es</sub>	0,36
Total Quality Factor, Q <sub>ts</sub>	0,33
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	7 l
Mechanical Compliance, C <sub>ms</sub>	250 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	2 kg / s
Efficiency, $\eta_0$	1,2 %
Effective Surface Area, S <sub>d</sub>	0,014 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	3 mm
Displacement Volume, V <sub>d</sub>	14 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	0,2 mH

### MATERIALS

Voice coil winding	Aluminum
Voice coil former	Glass fiber
Spider	Conex
Magnet	Neodymium
Cone	Paper
Frame	Die cast aluminum

#### 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.

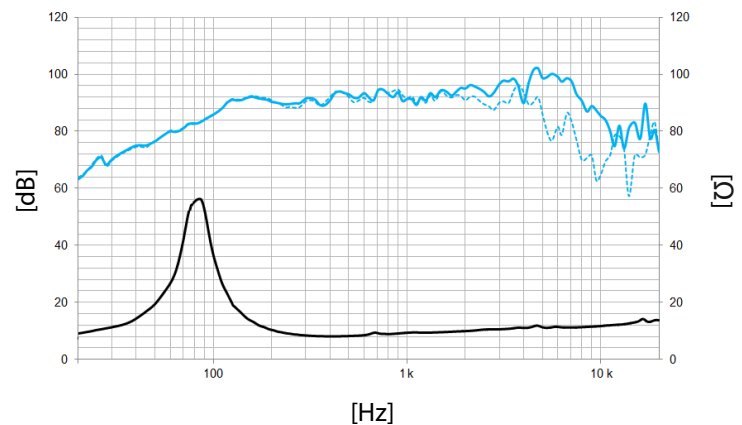
<sup>3</sup> T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

<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.



### MOUNTING INFORMATION

Overall diameter	187,5 mm	7,4 in
Bolt circle diameter	172 mm	6,8 in
Baffle cutout diameter:		
- Front mount	146 mm	5,7 in
Depth	77,5 mm	3,1 in
Net weight	1,6 kg	3,5 lb
Shipping weight	1,8 kg	4,0 lb



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