

#### KEY FEATURES

- High power handling: 250 W<sub>AES</sub>
- Sensitivity 95 dB (1W / 1m)
- 2,5" aluminum voice coil with polyimide fiber glass former
- Extremely linear frequency response
- Low harmonic distortion
- Extended controlled displacement:  $X_{\max} \pm 6,5$  mm
- 23 mm peak-to-peak excursion before damage
- Designed for woofer applications
- Optimized for small bass-reflex cabinets



#### TECHNICAL SPECIFICATIONS

|                                    |           |                             |
|------------------------------------|-----------|-----------------------------|
| Nominal diameter                   | 200 mm    | 8 in                        |
| Rated impedance                    |           | 8 $\Omega$                  |
| Minimum impedance                  |           | 7,3 $\Omega$                |
| Power capacity <sup>1</sup>        |           | 250 W <sub>AES</sub>        |
| Program power <sup>2</sup>         |           | 500 W                       |
| Sensitivity                        | 95 dB     | 1W / 1m @ Z <sub>N</sub>    |
| Frequency range                    |           | 70 - 6.000 Hz               |
| Recom. enclosure vol.              | 10 / 30 l | 0,35 / 1,06 ft <sup>3</sup> |
| Voice coil diameter                | 63,5 mm   | 2,5 in                      |
| BI factor                          |           | 12,2 N/A                    |
| Moving mass                        |           | 0,021 kg                    |
| Voice coil length                  |           | 16 mm                       |
| Air gap height                     |           | 7 mm                        |
| X <sub>damage</sub> (peak to peak) |           | 23 mm                       |

#### Notes:

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

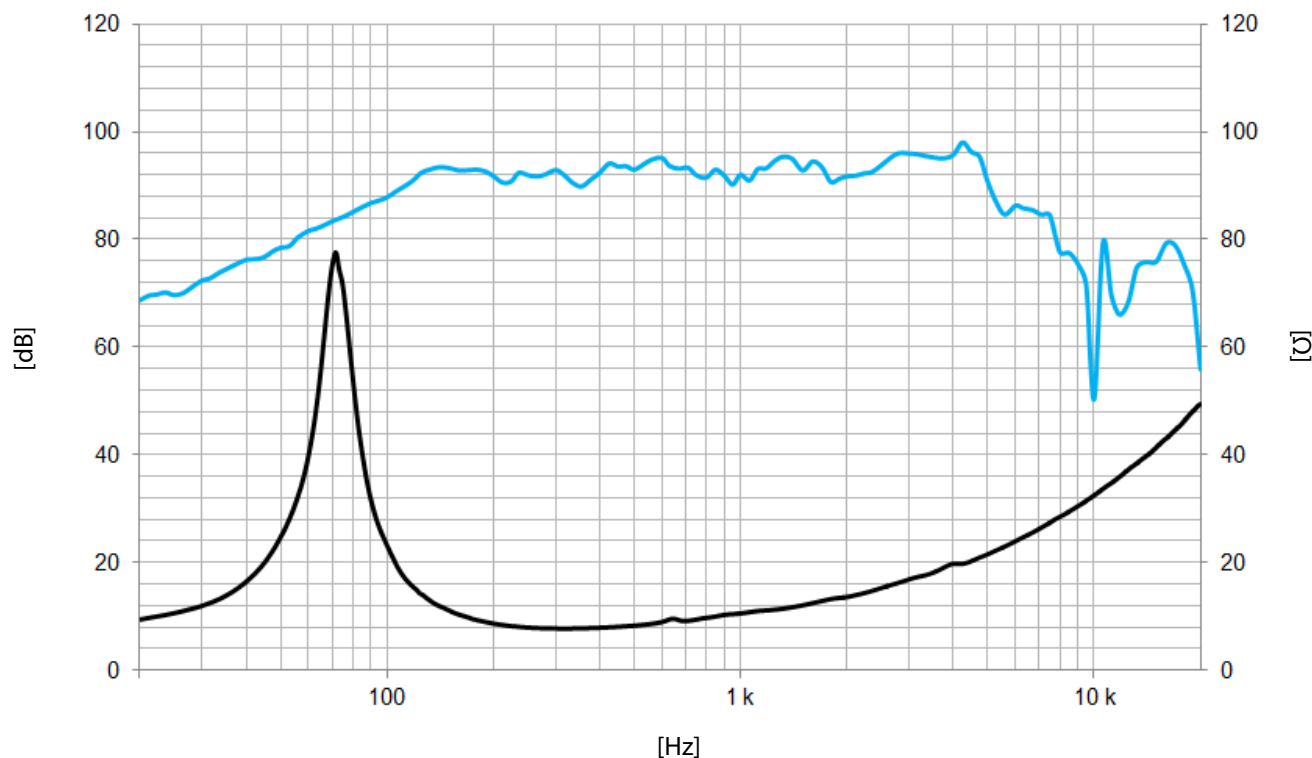
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<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  $X_{\max}$  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.

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

|                                                            |                      |
|------------------------------------------------------------|----------------------|
| Resonant frequency, f <sub>s</sub>                         | 70 Hz                |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 6,1 $\Omega$         |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 6,8                  |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,38                 |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,36                 |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 17 l                 |
| Mechanical Compliance, C <sub>ms</sub>                     | 246 $\mu$ m / N      |
| Mechanical Resistance, R <sub>ms</sub>                     | 1,4 kg / s           |
| Efficiency, $\eta_0$                                       | 1,5 %                |
| Effective Surface Area, S <sub>d</sub>                     | 0,022 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> <sup>4</sup>        | 6,5 mm               |
| Displacement Volume, V <sub>d</sub>                        | 143 cm <sup>3</sup>  |
| Voice Coil Inductance, L <sub>e</sub>                      | 1,3 mH               |



**Note:** Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

#### MOUNTING INFORMATION

|                         |        |        |
|-------------------------|--------|--------|
| Overall diameter        | 212 mm | 8,3 in |
| Bolt circle diameter    | 198 mm | 7,8 in |
| Baffle cutout diameter: |        |        |
| - Front mount           | 181 mm | 7,1 in |
| Depth                   | 96 mm  | 3,8 in |
| Net weight              | 3,3 kg | 7,3 lb |
| Shipping weight         | 3,5 kg | 7,6 lb |

#### DIMENSION DRAWING

