

### KEY FEATURES

- Low weight: 3,75 kg
- 3" copper voice coil
- Excellent power handling: 450 W<sub>AES</sub>
- High sensitivity: 95 dB
- High performance neodymium magnet system
- Extended controlled displacement: X<sub>MAX</sub> ± 7 mm
- Extra vented magnetic structure
- Designed for compact woofer applications

### TECHNICAL SPECIFICATIONS

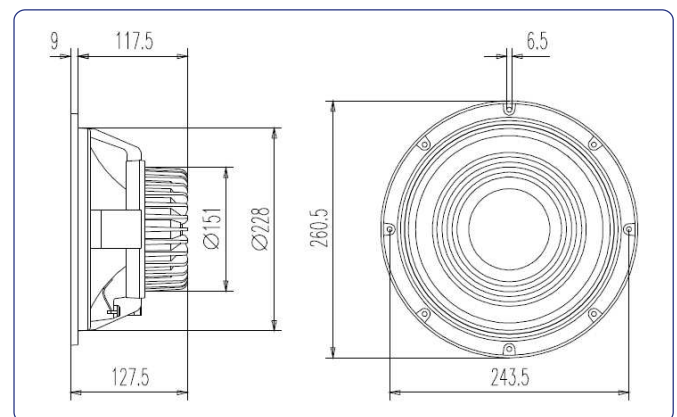
|                                    |        |                          |
|------------------------------------|--------|--------------------------|
| Nominal diameter                   | 250 mm | 10 in                    |
| Rated impedance                    |        | 8 Ω                      |
| Minimum impedance                  |        | 6,6 Ω                    |
| Power capacity*                    |        | 450 W <sub>AES</sub>     |
| Program power                      |        | 900 W                    |
| Sensitivity                        | 95 dB  | 1W / 1m @ Z <sub>N</sub> |
| Frequency range                    |        | 55 - 4.000 Hz            |
| Voice coil diameter                | 77 mm  | 3 in                     |
| BI factor                          |        | 19,3 N/A                 |
| Moving mass                        |        | 0,052 kg                 |
| Voice coil length                  |        | 17,5 mm                  |
| Air gap height                     |        | 8 mm                     |
| X <sub>damage</sub> (peak to peak) |        | 30 mm                    |

### THIELE-SMALL PARAMETERS\*\*

|  |                      |
|--|----------------------|
| Resonant frequency, f <sub>s</sub>                         | 55 Hz                |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 6,2 Ω                |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 8,5                  |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,30                 |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,29                 |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 28 l                 |
| Mechanical Compliance, C <sub>ms</sub>                     | 160 μm / N           |
| Mechanical Resistance, R <sub>ms</sub>                     | 2,1 kg / s           |
| Efficiency, η <sub>0</sub>                                 | 1,5 %                |
| Effective Surface Area, S <sub>d</sub>                     | 0,035 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> ***                 | 7 mm                 |
| Displacement Volume, V <sub>d</sub>                        | 245 cm <sup>3</sup>  |
| Voice Coil Inductance, L <sub>e</sub> @ 1 kHz              | 1 mH                 |



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

|                         |          |          |
|-------------------------|----------|----------|
| Overall diameter        | 260,5 mm | 10,25 in |
| Bolt circle diameter    | 243,5 mm | 9,58 in  |
| Baffle cutout diameter: |          |          |
| - Front mount           | 228 mm   | 9 in     |
| Depth                   | 127,5 mm | 5 in     |
| Net weight              | 3,75 kg  | 8,25 lb  |
| Shipping weight         | 4,25 kg  | 9,35 lb  |

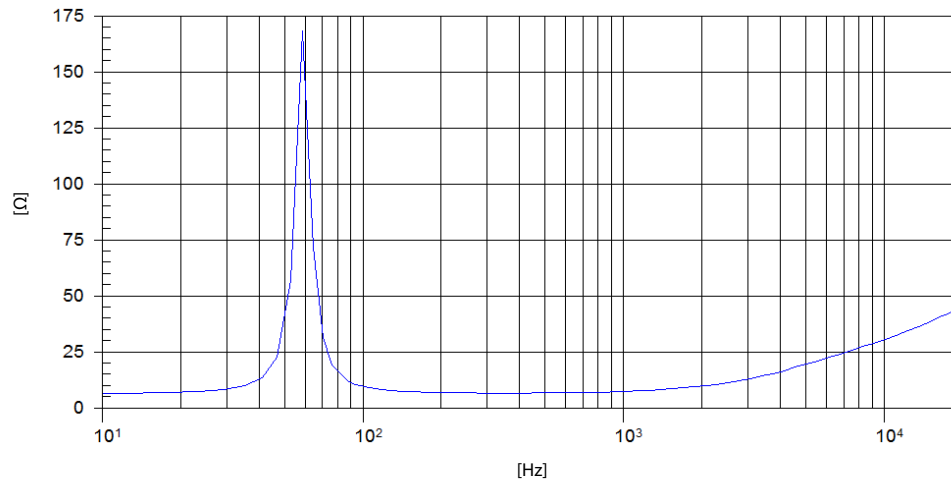
#### Notes:

\* 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.

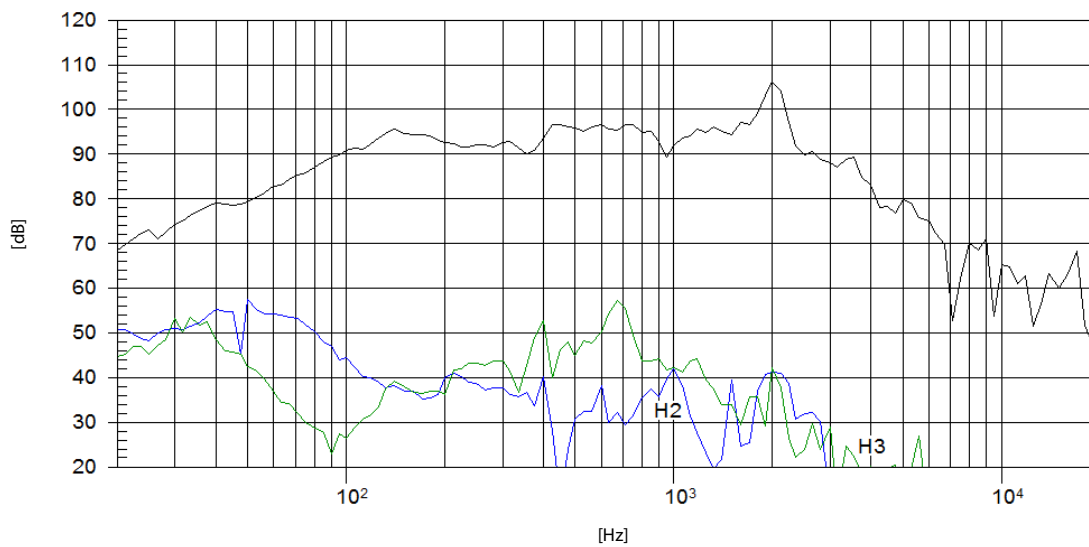
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* The X<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.

## 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