

KEY FEATURES

- High power handling: 400 W_{AES}
- Sensitivity 95 dB (1W / 1m)
- Extremely linear frequency response
- Low harmonic distortion
- Optimum winding length for increased linear excursion
- 3" copper voice coil with polyimide fiber glass former
- Large magnetic assembly to provide efficient heat dissipation
- Designed for woofer applications
- Optimized for small bass-reflex cabinets

TECHNICAL SPECIFICATIONS

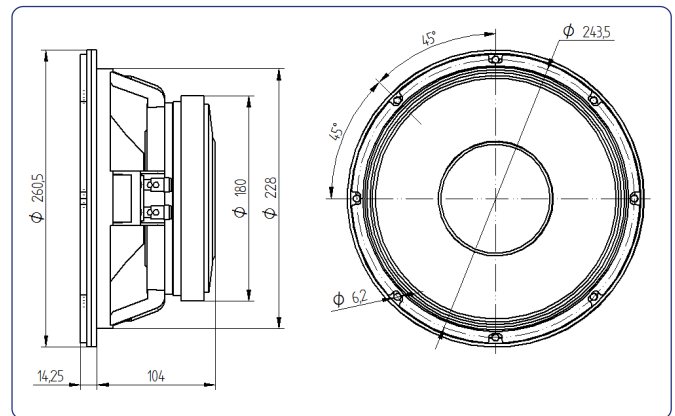
| | | |
|------------------------------------|----------------------|--------------------------|
| Nominal diameter | 250 mm | 10 in |
| Rated impedance | | 8 Ω |
| Minimum impedance | | 6,6 Ω |
| Power capacity* | 400 W _{AES} | |
| Program power | | 800 W |
| Sensitivity | 95 dB | 1W @ 1m @ Z _N |
| Frequency range | | 45 - 4.000 Hz |
| Voice coil diameter | 77 mm | 3 in |
| BI factor | | 17 N/A |
| Moving mass | | 0,052 kg |
| Voice coil length | | 17,5 mm |
| Air gap height | | 7 mm |
| X _{damage} (peak to peak) | | 28 mm |

THIELE-SMALL PARAMETERS**

| | |
|--|----------------------|
| Resonant frequency, f _s | 45 Hz |
| D.C. Voice coil resistance, R _e | 6,2 Ω |
| Mechanical Quality Factor, Q _{ms} | 7,1 |
| Electrical Quality Factor, Q _{es} | 0,32 |
| Total Quality Factor, Q _{ts} | 0,30 |
| Equivalent Air Volume to C _{ms} , V _{as} | 49 l |
| Mechanical Compliance, C _{ms} | 241 μm / N |
| Mechanical Resistance, R _{ms} | 2,1 kg / s |
| Efficiency, η ₀ | 1,4 % |
| Effective Surface Area, S _d | 0,038 m ² |
| Maximum Displacement, X _{max} *** | 7 mm |
| Displacement Volume, V _d | 266 cm ³ |
| Voice Coil Inductance, L _e @ 1 kHz | 0,6 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 | 8,98 in |
| - Rear mount | 230 mm | 9,05 in |
| Depth | 120 mm | 4,72 in |
| Net weight | 5,7 kg | 12,5 lb |
| Shipping weight | 6 kg | 13,2 lb |

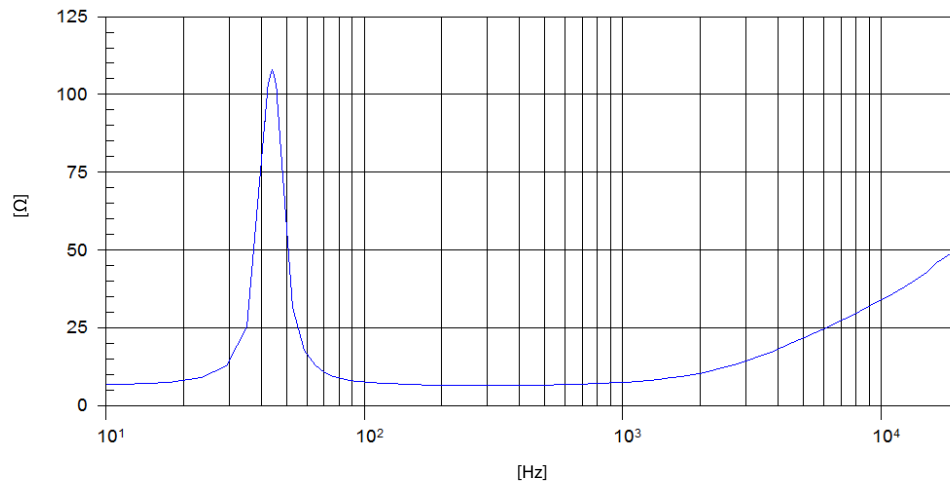
Notes:

* 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.

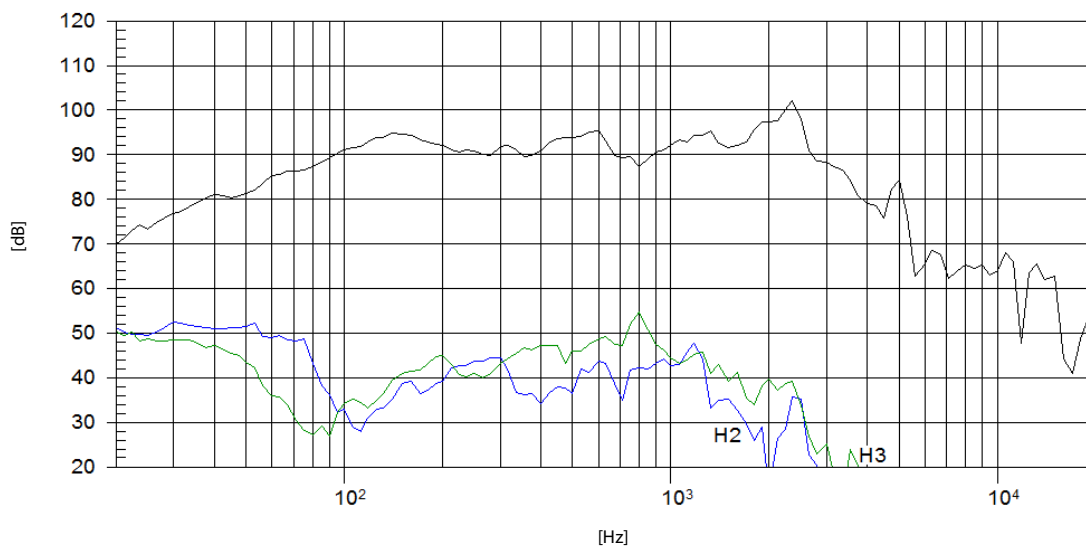
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** The X_{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.

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