

KEY FEATURES

- High power handling: 600 W program power
- 2" copper wire voice coil
- High sensitivity: 95 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion
- Waterproof cone treatment on both sides of the cone
- Extended controlled displacement: $X_{max} \pm 6$ mm
- $X_{damage} \pm 30$ mm
- Low harmonic distortion and linear response
- Wide range of applications of low and mid-low frequencies

TECHNICAL SPECIFICATIONS

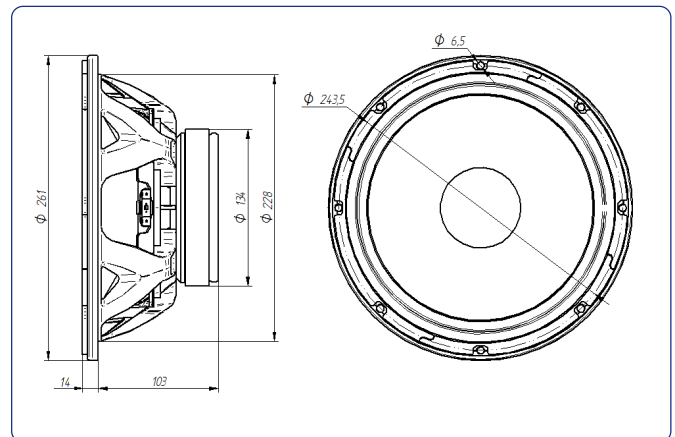
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|------------------------------------|-----------|-----------------------------|
| Nominal diameter | 250 mm | 10 in |
| Rated impedance | | 8 Ω |
| Minimum impedance | | 6,5 Ω |
| Power capacity* | | 300 W _{AES} |
| Program power | | 600 W |
| Sensitivity | 95 dB | 1W / 1m @ Z _N |
| Frequency range | | 50 - 5.000 Hz |
| Recom. enclosure vol. | 15 / 50 l | 0,53 / 1,77 ft ³ |
| Voice coil diameter | 50,8 mm | 2 in |
| Bl factor | | 14,2 N/A |
| Moving mass | | 0,039 kg |
| Voice coil length | | 15 mm |
| Air gap height | | 8 mm |
| X _{damage} (peak to peak) | | 30 mm |

THIELE-SMALL PARAMETERS**

| | |
|--|----------------------|
| Resonant frequency, f_s | 47 Hz |
| D.C. Voice coil resistance, R_e | 6,1 Ω |
| Mechanical Quality Factor, Q_{ms} | 3,9 |
| Electrical Quality Factor, Q_{es} | 0,35 |
| Total Quality Factor, Q_{ts} | 0,32 |
| Equivalent Air Volume to C_{ms} , V_{as} | 50,9 l |
| Mechanical Compliance, C_{ms} | 294 μ m / N |
| Mechanical Resistance, R_{ms} | 2,9 kg / s |
| Efficiency, η_0 | 1,5 % |
| Effective Surface Area, S_d | 0,035 m ² |
| Maximum Displacement, X_{max} *** | 6 mm |
| Displacement Volume, V_d | 210 cm ³ |
| Voice Coil Inductance, L_e @ 1 kHz | 1 mH |



DIMENSION DRAWINGS



MOUNTING INFORMATION

| | | |
|-------------------------|----------|----------|
| Overall diameter | 261 mm | 10,28 in |
| Bolt circle diameter | 243,5 mm | 9,59 in |
| Baffle cutout diameter: | | |
| - Front mount | 228 mm | 8,98 in |
| Depth | 117 mm | 4,60 in |
| Net weight | 3,5 kg | 7,71 lb |
| Shipping weight | 3,9 kg | 8,60 lb |

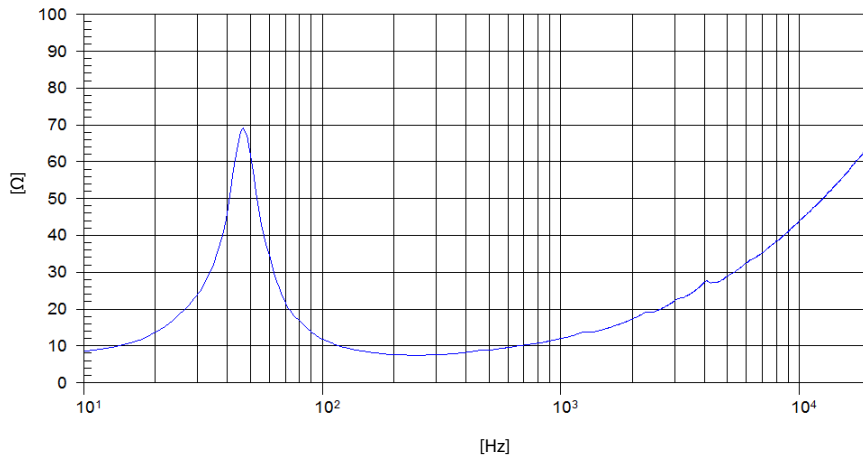
Notes:

* 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.

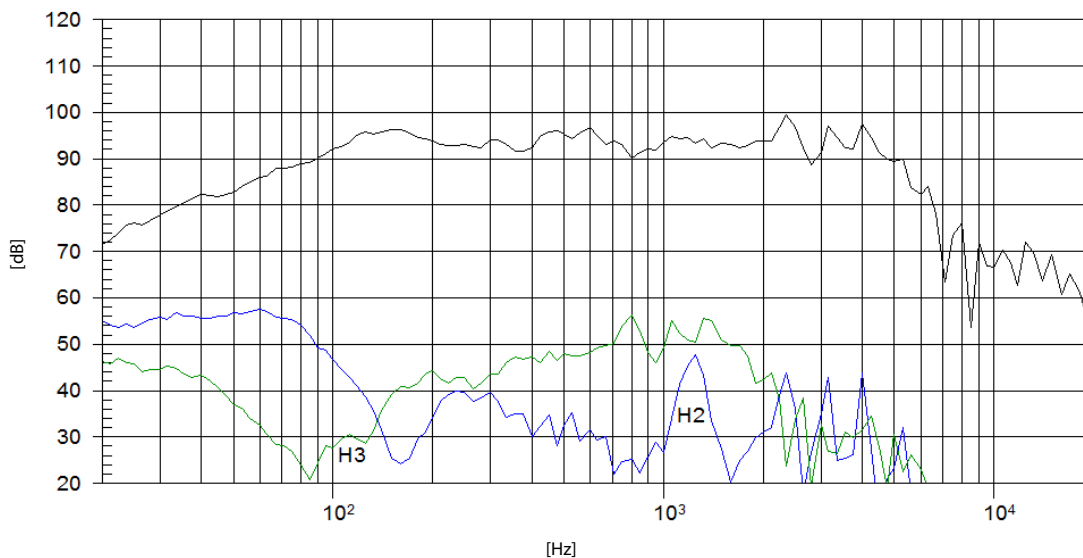
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** 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