

KEY FEATURES

- High power handling 200 W_{AES}
- 2" copper voice coil with polyimide fiber glass former
- Sensitivity: 95 dB (1W / 1m)
- Extended controlled displacement: $X_{max} \pm 6$ mm
- 28 mm peak-to-peak excursion before damage
- Designed for high power woofer applications



TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		8 Ω
Minimum impedance		7,2 Ω
Power capacity ¹		200 W _{AES}
Program power ²		400 W
Sensitivity	95 dB	1W / 1m @ Z _N
Frequency range		45 - 6.000 Hz
Recom. enclosure vol.	20 / 50 l	0,7 / 1,8 ft ³
Voice coil diameter	51,7 mm	2 in
BI factor		13,2 N/A
Moving mass		0,038 kg
Voice coil length		15 mm
Air gap height		7 mm
X _{damage} (peak to peak)		28 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	43 Hz
D.C. Voice coil resistance, R _e	6,2 Ω
Mechanical Quality Factor, Q _{ms}	7,9
Electrical Quality Factor, Q _{es}	0,37
Total Quality Factor, Q _{ts}	0,35
Equivalent Air Volume to C _{ms} , V _{as}	65 l
Mechanical Compliance, C _{ms}	368 μ m / N
Mechanical Resistance, R _{ms}	1,3 kg / s
Efficiency, η_0	1,4 %
Effective Surface Area, S _d	0,0355 m ²
Maximum Displacement, X _{max} ⁴	6 mm
Displacement Volume, V _d	213 cm ³
Voice Coil Inductance, L _e	1,7 mH

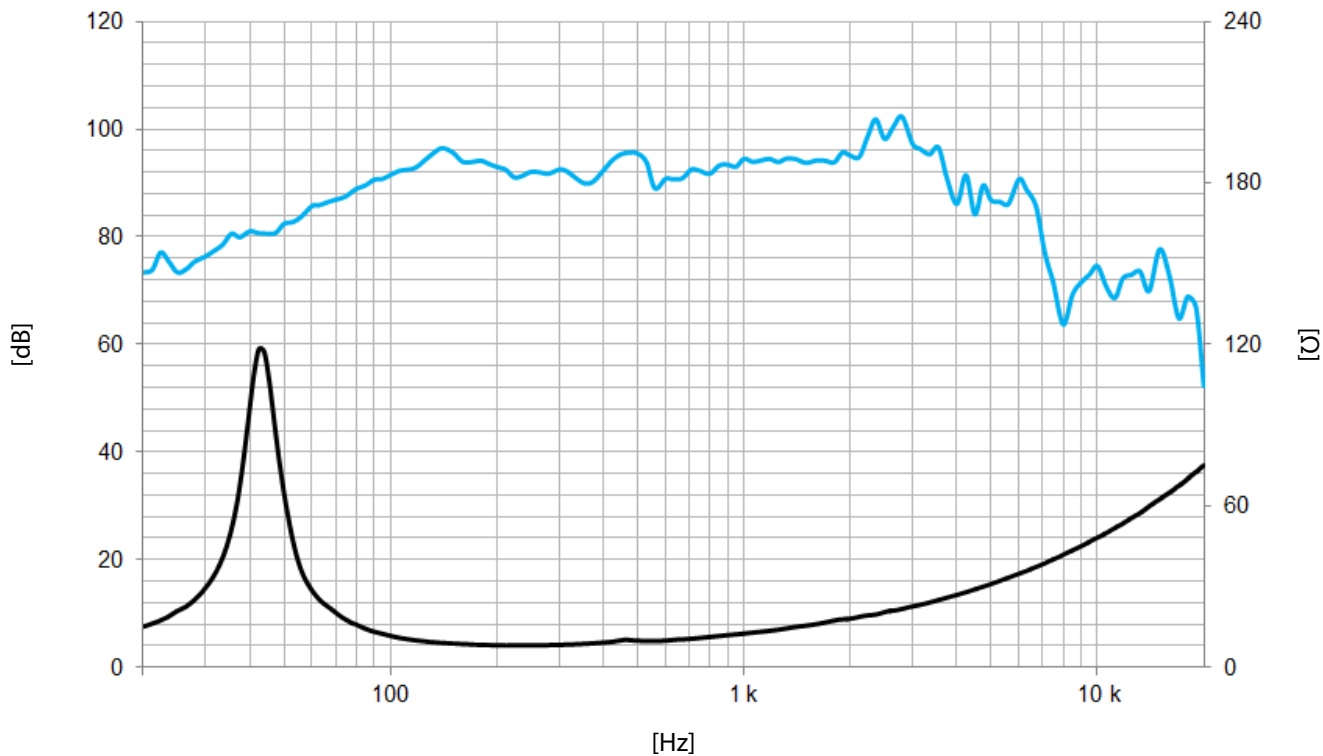
Notes:

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

² Program power is defined as power capacity + 3 dB.

³ 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).

⁴ 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.



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

MOUNTING INFORMATION

Overall diameter	260,5 mm	10,3 in
Bolt circle diameter	243,5 mm	9,6 in
Baffle cutout diameter:		
- Front mount	228 mm	9,0 in
Depth	115 mm	4,5 in
Net weight	3,5 kg	7,7 lb
Shipping weight	3,9 kg	8,6 lb

DIMENSION DRAWING

