

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
- Low harmonic distortion and linear response
- Weatherproof cone with treatment on both sides of the cone
- Aluminium frame
- Extended controlled displacement: $X_{\max} \pm 6$ mm
- 32 mm peak-to-peak excursion before damage
- Wide range of applications of low and mid-low frequencies



TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		7,8 Ω
Power capacity ¹	300 W _{AES}	
Program power ²	600 W	
Sensitivity	95 dB	1W / 1m @ Z_N
Frequency range	65 - 4.000 Hz	
Recom. enclosure		$V_b = 12$ l
(Bass-reflex design)		$F_b = 70$ Hz
Voice coil diameter	50,8 mm	2 in
BI factor		15,5 N/A
Moving mass	0,028 kg	
Voice coil length	15 mm	
Air gap height	8 mm	
X_{damage} (peak to peak)	32 mm	

THIELE-SMALL PARAMETERS³

Resonant frequency, f_s	65 Hz
D.C. Voice coil resistance, R_e	6 Ω
Mechanical Quality Factor, Q_{ms}	5,4
Electrical Quality Factor, Q_{es}	0,29
Total Quality Factor, Q_{ts}	0,27
Equivalent Air Volume to C_{ms} , V_{as}	15 l
Mechanical Compliance, C_{ms}	215 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	2,1 kg / s
Efficiency, η_0	1,4 %
Effective Surface Area, S_d	0,022 m ²
Maximum Displacement, X_{\max}^4	6 mm
Displacement Volume, V_d	132 cm ³
Voice Coil Inductance, L_e @ 1 kHz	0,9 mH

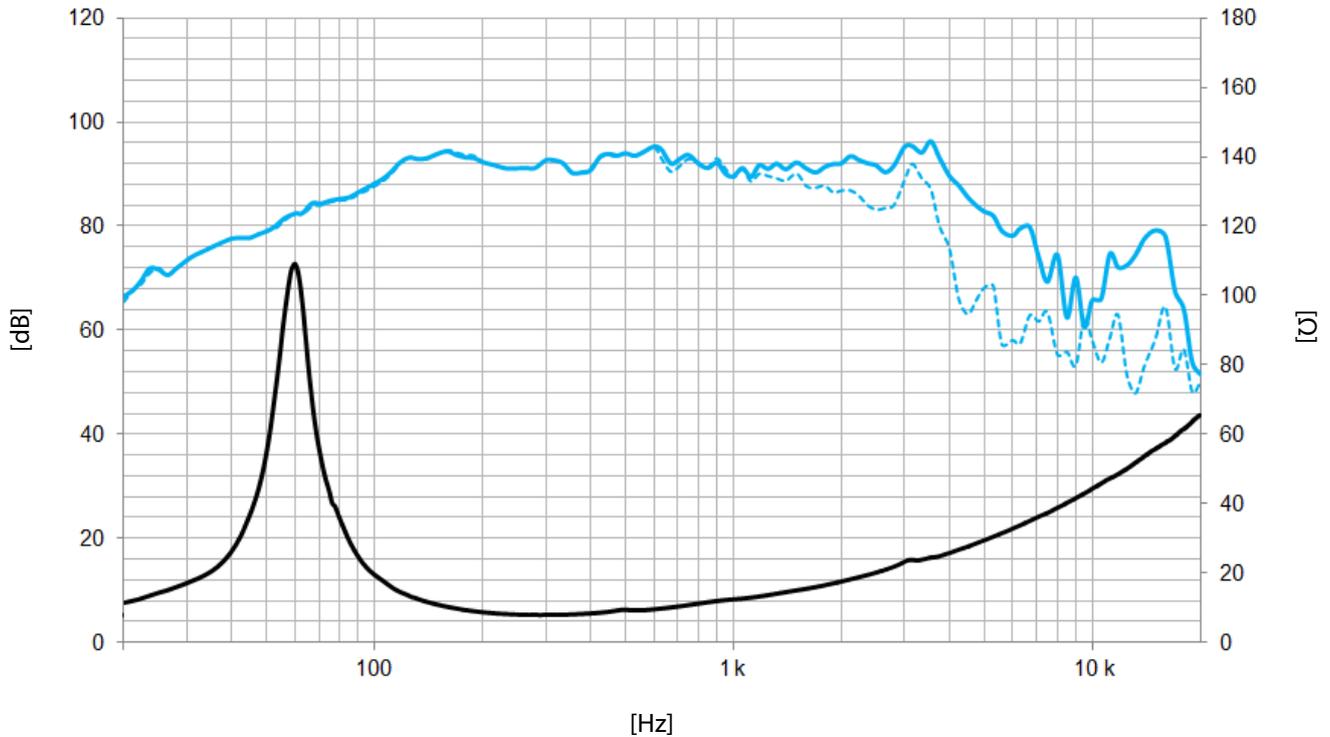
Notes:

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

— Frequency response on axis
- - - Frequency response 45° off axis

MOUNTING INFORMATION

Overall diameter	212 mm	8,3 in
Bolt circle diameter	195 mm	7,7 in
Baffle cutout diameter:		
- Front mount	182 mm	7,2 in
Depth	95 mm	3,7 in
Net weight	3,3 kg	7,3 lb
Shipping weight	3,6 kg	7,9 lb

DIMENSION DRAWING

