

KEY FEATURES

- High power handling: 440 W program power
- 1.5" copper wire voice coil
- High sensitivity: 94 dB (1W / 1m)
- Very linear extended response and low distortion
- Treated double roll cloth surround
- Pressed steel frame
- Ferrite magnet
- Designed for bass and midbass applications in compact vented cabinets



TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		6,7 Ω
Power capacity ¹		220 W _{AES}
Program power ²		440 W
Sensitivity	94 dB	1W / 1m @ Z _N
Frequency range		95 - 8.000 Hz
Recom. enclosure (Bass-reflex design)		V _b = 9 l F _b = 87 Hz
Voice coil diameter	38,1 mm	1,5 in
BI factor		9,4 N/A
Moving mass		0,013 kg
Voice coil length		14 mm
Air gap height		6 mm
X _{damage} (peak to peak)		30 mm

THIELE-SMALL PARAMETERS³

Resonant frequency, f _s	90 Hz
D.C. Voice coil resistance, R _e	5,3 Ω
Mechanical Quality Factor, Q _{ms}	1,4
Electrical Quality Factor, Q _{es}	0,45
Total Quality Factor, Q _{ts}	0,34
Equivalent Air Volume to C _{ms} , V _{as}	6,5 l
Mechanical Compliance, C _{ms}	235 μm / N
Mechanical Resistance, R _{ms}	5,5 kg / s
Efficiency, η ₀	1 %
Effective Surface Area, S _d	0,014 m ²
Maximum Displacement, X _{max} ⁴	5,7 mm
Displacement Volume, V _d	80 cm ³
Voice Coil Inductance, L _e @ 1 kHz	0,5 mH

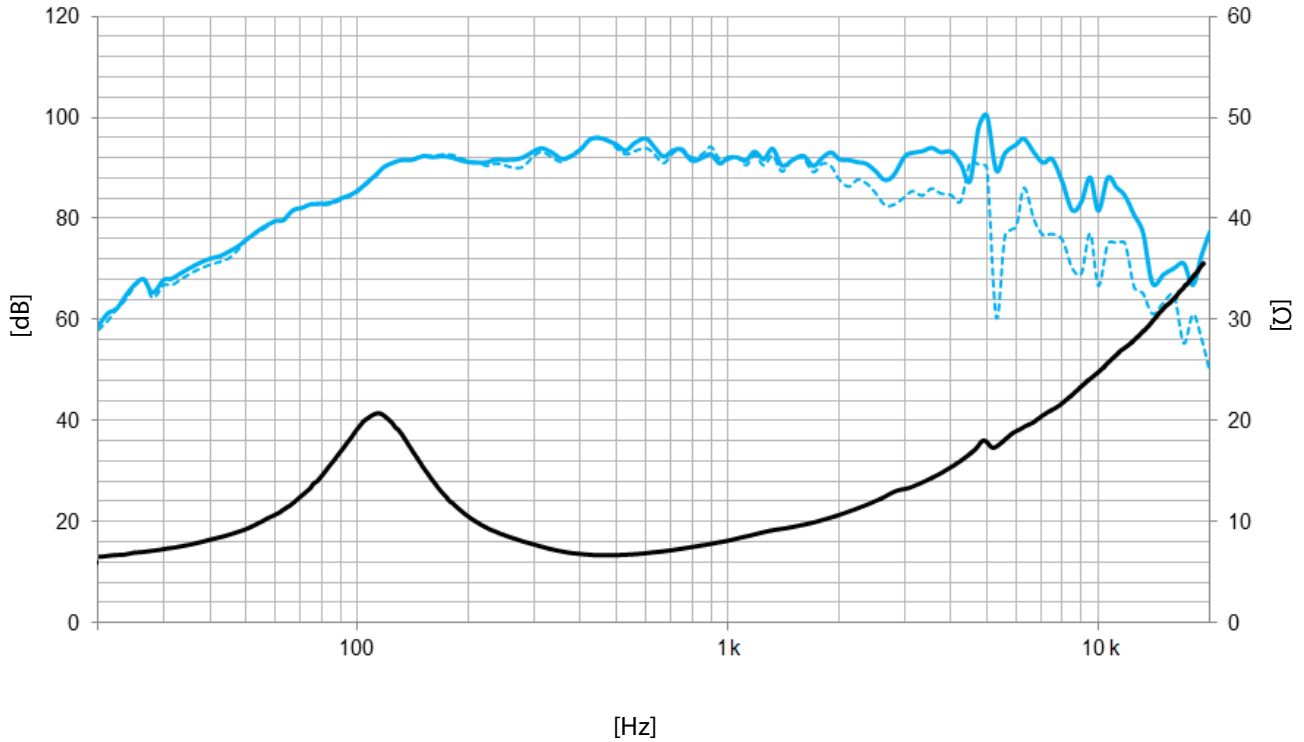
Notes:

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	167 mm	6,6 in
Bolt circle diameter	156 mm	6,1 in
Baffle cutout diameter:		
- Front mount	141 mm	5,6 in
Depth	80 mm	3,1 in
Net weight	2,2 kg	4,8 lb
Shipping weight	2,3 kg	5,1 lb

DIMENSION DRAWING

