

KEY FEATURES



- High power handling and low distortion 6,5" woofer
- Exclusive Malt Cross® Technology Cooling System
- Low power compression losses
- High force factor design for top performance applications
- FEA optimized ceramic magnetic circuit and suspensions
- Ultra low air noise
- Carbon fiber cone and dustcap

- Enhanced linear behaviour
- Double BIMAX spider and NBR surround
- 2" QUATTRO in/out aluminium voice coil
- Optimized triple aluminum and copper demodulating circuit
- Extended controlled displacement: $X_{\max} \pm 9$ mm
- 43 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	165 mm	6,5 in
Rated impedance		8 Ω
Minimum impedance		7,6 Ω
Power capacity ¹		200 W _{AES}
Program power ²		400 W
Long term max. power ³		600 W
Sensitivity	87 dB	1W / 1m @ Z _N
Frequency range		35 - 3.000 Hz

Voice coil diameter	50,8 mm	2 in
Bl factor		14 N/A
Moving mass		0,045 kg
Voice coil length		20 mm
Air gap height		6 mm
X_{damage} (peak to peak)		43 mm

Notes:

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

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

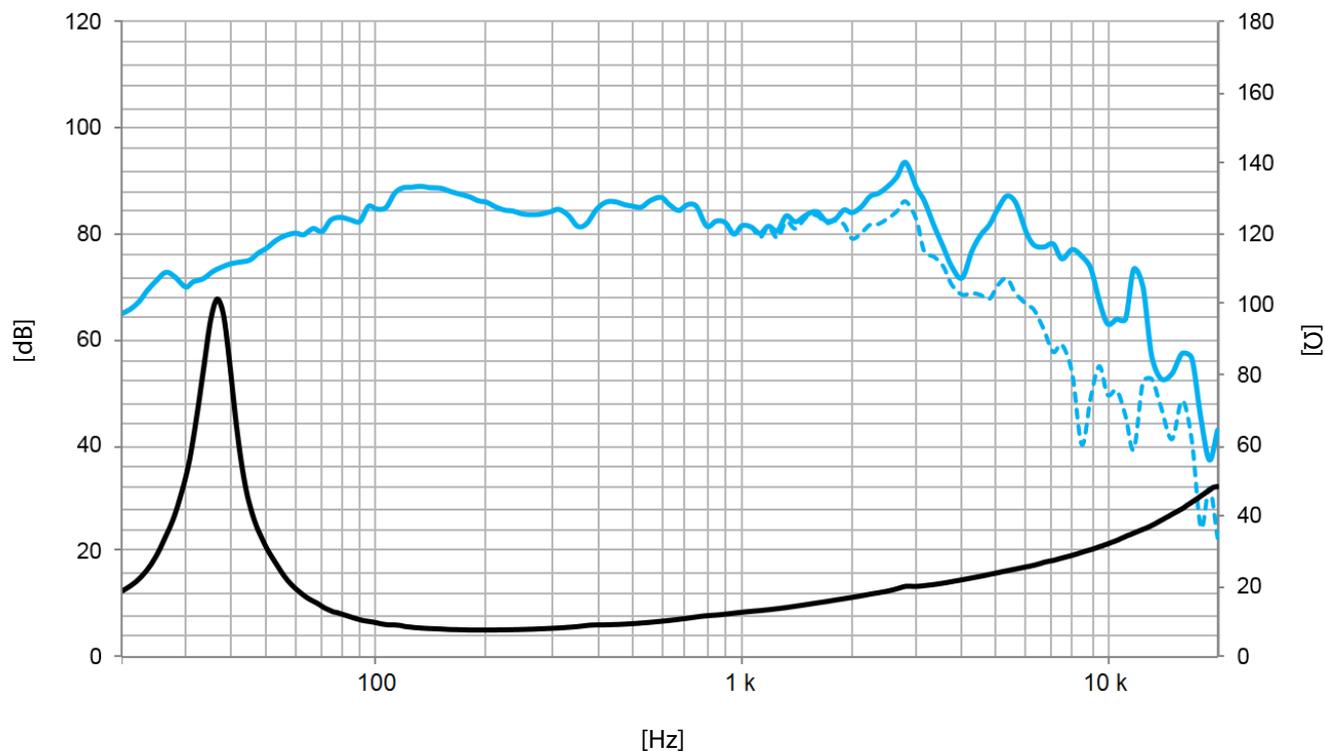
³ Long term maximum power according to IEC268-5 18.2.

⁴ 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).

⁵ 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.

THIELE-SMALL PARAMETERS⁴

Resonant frequency, f_s	40Hz
D.C. Voice coil resistance, R_e	5,8 Ω
Mechanical Quality Factor, Q_{ms}	7,5
Electrical Quality Factor, Q_{es}	0,35
Total Quality Factor, Q_{ts}	0,34
Equivalent Air Volume to C_{ms} , V_{as}	11 l
Mechanical Compliance, C_{ms}	342 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	1,52 kg / s
Efficiency, η_0	0,21 %
Effective Surface Area, S_d	0,0154 m ²
Maximum Displacement, X_{\max} ⁵	9 mm
Displacement Volume, V_d	139 cm ³
Voice Coil Inductance, L_e	0,95 mH



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	176 mm	6,93 in
Bolt circle diameter	190 mm	7,48 in
Baffle cutout diameter:		
- Front mount	157,6 mm	6,2 in
Depth	120,5 mm	4,75 in
Net weight	3,5 kg	7,72 lb
Shipping weight	4,2 kg	9,26 lb

DIMENSION DRAWING

