

KEY FEATURES



- High power handling and low distortion 10" subwoofer
- 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
- 2,5" QUATTRO in/out aluminium voice coil
- Optimized triple aluminum and copper demodulating circuit
- Extended controlled displacement: $X_{\max} \pm 14,5$ mm
- 50 mm peak-to-peak excursion before damage



TECHNICAL SPECIFICATIONS

Nominal diameter	250 mm	10 in
Rated impedance		8 Ω
Minimum impedance		8,4 Ω
Power capacity ¹	350 W _{AES}	
Program power ²	700 W	
Long term max. power ³	800 W	
Sensitivity	90 dB	1W / 1m @ Z _N
Frequency range	30 - 2.000 Hz	

Voice coil diameter	63,5 mm	2,5 in
BI factor		16 N/A
Moving mass	0,089 kg	
Voice coil length	32 mm	
Air gap height	7 mm	
X_{damage} (peak to peak)	50 mm	

Notes:

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

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

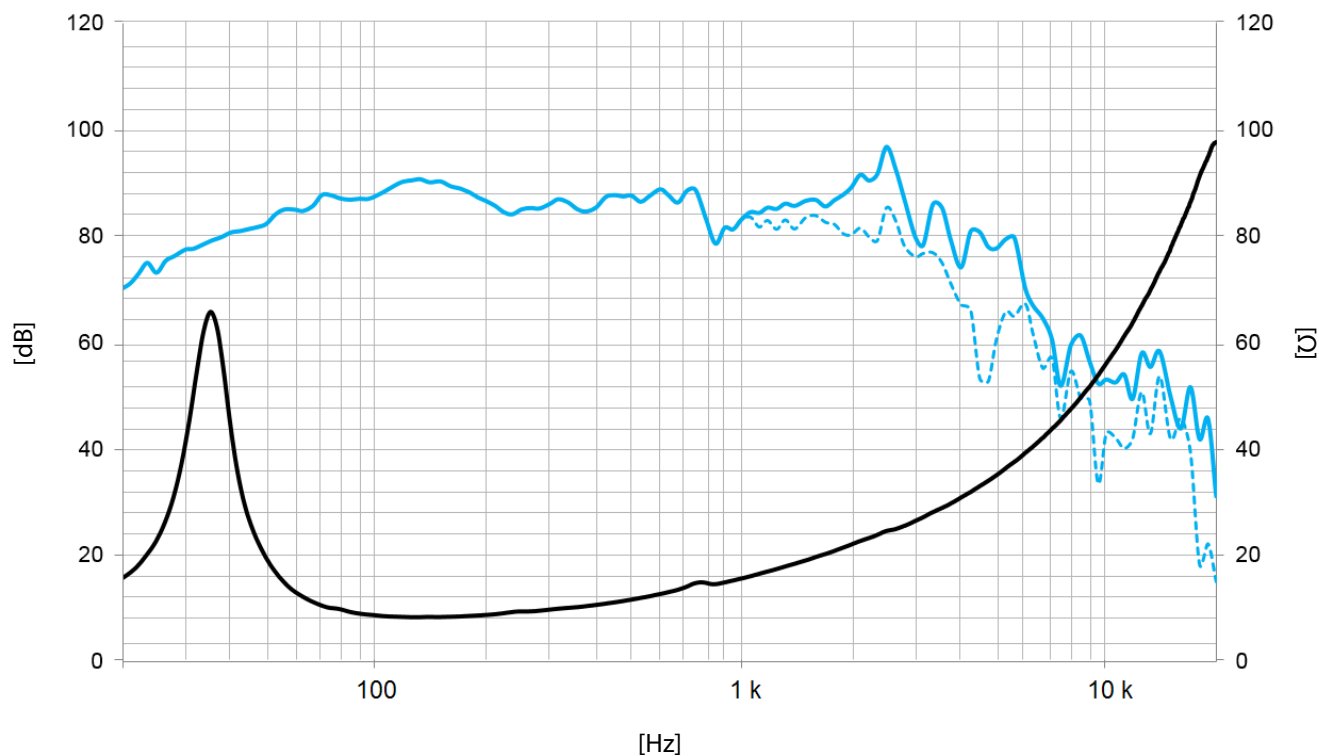
³ Long term maximum power according to IEC268-5 18.2.

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	35 Hz
D.C. Voice coil resistance, R_e	5,9 Ω
Mechanical Quality Factor, Q_{ms}	5,9
Electrical Quality Factor, Q_{es}	0,45
Total Quality Factor, Q_{ts}	0,42
Equivalent Air Volume to C_{ms} , V_{as}	45 l
Mechanical Compliance, C_{ms}	233 $\mu\text{m} / \text{N}$
Mechanical Resistance, R_{ms}	3,3 kg / s
Efficiency, η_0	0,42 %
Effective Surface Area, S_d	0,037 m ²
Maximum Displacement, $X_{\max}$ ⁵	14,5 mm
Displacement Volume, V_d	536 cm ³
Voice Coil Inductance, L_e	1,49 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	279 mm	10,98 in
Bolt circle diameter	260,5 mm	10,26 in
Baffle cutout diameter:		
- Front mount	229 mm	9 in
Depth	172,8 mm	6,8 in
Net weight	6,5 kg	14,33 lb
Shipping weight	7,2 kg	15,9 lb

DIMENSION DRAWING

